PROJECT: 26-1136 REST, WALLA WALLA RIPARIAN ENHANCEMENT

Sponsor: Umatilla Confederated Tribes Program: Salmon State Riparian Status: Preapplication

Parties to the Agreement

PRIMARY SPONSOR

Confederated Tribes of the Umatilla Indian Reservation

Address 46411 Timine Way

City Pendleton **State** OR **Zip** 97801-9467

Org Type Native American Tribe

Vendor # SWV0015803-01

UBI

Date Org created

Org Notes

link to Organization profile

☐ Org data updated

SECONDARY SPONSORS

No records to display

MANAGING AGENCY

Recreation and Conservation Office

LEAD ENTITY

Snake River Salmon Rec Bd LE

QUESTIONS

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

CTUIR is the project sponsor

External Systems

SPONSOR ASSIGNED INFO

Sponsor-Assigned Project Number

Sponsor-Assigned Regions

LINK AN EXISTING SRP PROJECT

Unlink

26-1136, Walla Walla Riparian Enhancement, Salmon Sta

Project Application Report - 26-1136

Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
Kat Moore Rec. and Conserv. Office	Project Manager	(360) 867-8426	kathryn.moore@rco.wa.gov
Ethan Green Umatilla Confederated Tribes	Project Contact	(541) 429-7555	ethangreen@ctuir.org
Morgan Clay Umatilla Confederated Tribes	Alt Project Contact	(541) 429-7549	morganclay@ctuir.org
Ali Fitzgerald Snake River Salmon Rec Bd LE	Lead Entity Contact	(509) 382-4115	ali@snakeriverboard.org

Worksites & Properties

#	Worksite Name
#1	Walla Walla River RM 32.5

Restoration	Property Name
	Parcel 340736510019
	Parcel 340736510020
	Parcel 340736510053
	Parcel 340736510057
	Parcel 340736530002
	Parcel 340736530003

#2 North Touchet River

Restoration	Property Name
	RM 1.3-1.8
	RM 1.8-2.6

Worksite Map & Description

Worksite #1: Walla Walla River RM 32.5

WORKSITE ADDRESS

Street Address Old Hwy 12
City, State, Zip Walla Walla WA 99362

Worksite #2: North Touchet River

WORKSITE ADDRESS

Street Address 252 N Touchet
City, State, Zip Dayton WA 99328

Worksite Details

Worksite #1: Walla Walla River RM 32.5

SITE ACCESS DIRECTIONS

The worksite can be accessed via Baker Ranch Road, a spur of Old Highway 12. The site is equidistant between the Frenchtown Road and Old Highway 12 turnoffs of Highway 12.

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Middle Columbia River, Walla Walla River, Threatened		✓	✓	Declining

Reference or source used

2022 5-Year Review: Summary & Evaluation of Middle Columbia River Steelhead (NOAA 2022)

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Bull Trout	Walla Walla River Migratory Bull Trout are known to migrate into the lower Walla Walla Basin and sometimes into the Columbia River. Walla Walla River Bull trout are ESA listed Threatened. The migratory portion of the population is critical to recovery.

Questions

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

The site is located off Old Highway 12, approximately 1/2 mile east of the intersection of Highway 12 and Old Highway 12.

Worksite #2: North Touchet River

SITE ACCESS DIRECTIONS

From Dayton, turn right on 4th Street. Continue southerly direction for two miles. Proceed left of North Touchet Rd. Site is approximately 1.5 miles to Baileysburg Rd. Turn right on Baileysburg Rd. Follow in a southerly direction, road shifts east. Stop at first pastured gate.

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
No species selected				

Reference or source used

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
No species selected	

Questions

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

Project Location

RELATED PROJECTS

Projects in PRISM

PRISM Number	Project Name	Program Name	Current Status	Relationship Type	Notes
25-1021 R	WWR RM 32.5 Floodplain Restoration	Salmon Federal Projects	Board Funded	Related	
20-1050 R	North Touchet Phase 3	Salmon State Projects	Closed Completed	Related	
19-1496 R	North Touchet Restoration RM 1.3-2.0	Salmon Federal Projects	Closed Completed	Related	
18-2085 R	NF Touchet Floodplain & Habitat Rest. RM 3.3-4.3	Salmon Federal Projects	Closed Completed	Related	

Related Project Notes

Questions

#1: Did this project originate from the Shore Friendly program?

No

#2: 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.

#3: 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.

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

No

#5: 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: Parcel 340736510019 (Worksite #1: Walla Walla River RM 32.5)

Restoration

LANDOWNER

Name	Christopher Marsh
Address	1289 Detour Road
City	Walla Walla
State	WA Zip 99362
Type	Private

CONTROL & TENURE

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

Property: Parcel 340736510020 (Worksite #1: Walla Walla River RM 32.5)

Restoration

LANDOWNER

Name	Christopher Marsh
Address	1289 Detour Road
City	Walla Walla
State	WA Zip 99362
Type	Private

CONTROL & TENURE

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

Property: Parcel 340736510053 (Worksite #1: Walla Walla River RM 32.5)

Restoration

LANDOWNER

Name	Confederated Tribes of the Umatilla Indiar
Address	46411 Timine Way
City	Pendleton
State	OR Zip 97801-9467
Type	Tribal

CONTROL & TENURE

Instrument Type	Sponsor owned property (deed)
Timing	Proposed
Term Length	Perpetuity
# Yrs	
Expiration Date	
Note	

Property: Parcel 340736510057 (Worksite #1: Walla Walla River RM 32.5)

Restoration

LANDOWNER

Name	Larry Lofthouse
Address	231 Rye Grass Road
City	Walla Walla
State	WA Zip 99362
Type	Private

CONTROL & TENURE

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

Property: Parcel 340736530002 (Worksite #1: Walla Walla River RM 32.5)

Restoration

LANDOWNER

Name	Christopher Marsh
Address	1289 Detour Road
City	Walla Walla
State	WA Zip 99362
Type	Private

CONTROL & TENURE

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

Property: Parcel 340736530003 (Worksite #1: Walla Walla River RM 32.5)

Restoration

LANDOWNER

Name	Larry Lofthouse
Address	231 Rye Grass Road
City	Walla Walla
State	WA Zip 99362
Type	Private

CONTROL & TENURE

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

Property: RM 1.3-1.8 (Worksite #2: North Touchet River)

Restoration

LANDOWNER

Name	Bill Warren
Address	422 N Touchet Road
City	Dayton
State	WA Zip 99328
Type	Private

CONTROL & TENURE

Instrument Type	Easement - Permanent
Timing	Existing
Term Length	Perpetuity
# Yrs	
Expiration Date	
Note	

Property: RM 1.8-2.6 (Worksite #2: North Touchet River)

Restoration

LANDOWNER

Name	Nolan Empey
Address	4665 Sheffield Road
City	Mesa
State	WA Zip 99343
Type	Private

CONTROL & TENURE

Instrument Type	Easement - Permanent
Timing	Existing
Term Length	Perpetuity
# Yrs	
Expiration Date	
Note	Pending purchase by BMLT and CTUIR

Project Proposal

Project Description

This Project will support the development of healthy riparian habitat at four recently completed floodplain reconnection projects. Worksites are located on the North Fork Touchet (2020 NFT RM 1.3-1.8, and 2021 NFT RM 1.8-2.6) as well as the Walla Walla River Mile 32.5 Floodplain Restoration Project Site.

This project would continue to develop a healthy riparian forest at the North Fork Touchet and Walla Walla River 32.5 Floodplain Reconnection and Habitat Enhancement Projects. Priority Species Supported: Middle Columbia River summer steelhead, Spring Chinook salmon, bull trout

Project Questions

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#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.

Riparian vegetation in the project reach has been degraded significantly from historic
conditions as a result of adjacent land use. Results from pre-restoration project site assessments showed that the riparian condition of the project reaches were very poor to poor and uniformly the result of significant conversion of native riparian to agriculture. Decreased riparian function limits large wood inputs and ultimately channel complexity for rearing native fish. The initial floodplain restoration projects helped to address poor riparian conditions, and this grant will support a continuation of that work.

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

Habitat limiting factors through this reach are symptomatic of watershed-scale impacts that have been ongoing for more than a century. Upstream irrigation withdrawals have substantially reduced the low-flow volume. The reduced streamflow combined with riparian degradation and geomorphic simplification have resulted in elevated water temperatures that frequently exceed the thermal range tolerable to native salmonids. Within this reach, disconnected side channels and floodplains exacerbate thermal loading during summer months, which is inhospitable for salmonids and favors non-native predators. During cooler months, when water temperatures are suitable for salmonids, there is very little complex structure or off-channel areas that provide secure refugia. Consequently, minimally suitable habitat is only available in shallower channel margins where they are subjected to higher velocities and increased predation risk. Improved riparian cover will improve thermal loading.

#3: **Project Goals.** 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 support the development of healthy riparian forest at recently completed floodplain restoration project site.

#4: **Project Objectives.** 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**

- Install successional planting over the course of five years.
- Implement weed management to allow native plants to establish.
- Monitor plant survival and backfill planting as needed.

#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.

- Monitor each site for plant survival and weed establishment/growth.
- Implement weed management and site preparation activities outlined in the Riparian Management Plan for each site.
- Install new plants in a successional manner consistent with each Riparian Management Plan.

#6: **Assumptions and Constraints.** 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:
-CTUIR will complete mechanical weed control or contract out chemical weed control at each site.
-CTUIR will plant each site with stock from the tribal nursery, seeds from local seed providers, and cuttings from existing project sites.
-Plantings will not be irrigated.

Constraints:
-Proximity to water will dictate which, if any, chemicals can be utilized for weed control.
-Soil conditions at the sites may not be suitable for plant establishment. Mulching may be utilized to improve survival.

#7: **Previous Lessons Learned.** How have lessons learned from completed projects or monitoring studies informed this project?

CTUIR staff have developed and implemented several large restoration projects throughout the Walla Walla River subbasin with the support of project partners and stakeholders. Many years of conducting similar work has created a program with a proven method of development and implementation. This project will be approached in much the same way as previous projects.
The CTUIR fisheries habitat program utilizes a proven, 5-step planning approach when
designing and implementing a fish habitat restoration project. These steps include scoping, assessment, monitoring, implementation, and reporting. Using this process, CTUIR has successfully developed and implemented dozens of large-scale fish habitat enhancement projects across the CTUIR's ceded territory.

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

Implementing the proposed Riparian Management plans will result in improved riparian forests on a quicker timescale than a no action alternative. No action will allow the riparian forests at each site to continue establishing from what was planted during the initial floodplain restoration project, without active weed management or successional planting.

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

Landowners have been involved during the habitat restoration work up to this point. Two of the landowners have put the work areas into permanent conservation easements. Landowners in the project reach will be contacted and informed about the project. Cooperating landowners and interested parties will be invited to participate in development of the planting plan through providing input on elements such as plant selection.

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

Yes

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

Changing climate conditions may reduce the quantity of habitat suitable for spawning and rearing of native fish species, and influence survival of all life stages of fish. In the Walla Walla subbasin, it is anticipated that summer stream temperatures will increase by 2-10 degrees Fahrenheit by 2080 (CTUIR 2015), mountain snowpack will decrease by an average of 6-14 in SWE in April (Hegewisch et al. 2021), and summer baseflow will decrease by an average 35% in the major spawning and rearing areas of the subbasin. In general, recommendations for climate adaptive restoration aligns well with process-based restoration strategies and the CTUIR River Vision. Increasing functionality of riparian vegetation, increasing summer stream flow, and restoring stream channel form and floodplain connectivity are generally regarded as having the greatest potential for offsetting climate change impacts (Beechie et al. 2013b; Williams et al. 2015; Justice et al. 2017; Wondzell et al. 2018)

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

Establishing a healthy riparian forest will directly improve and increase habitat diversity, supporting species adaptability.

#11: **Project Team Experience.** Describe the project management team's experience managing this type of project. Describe other projects where they have successfully used a similar approach.

CTUIR staff have experience managing many similar sized riparian restoration projects. Riparian stewardship is an ongoing element of many of our habitat restoration projects.

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

No

Restoration Supplemental

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

Yes

#1a: Will your project occur solely on currently identified sites, or is this a geographic envelope or reach-scale project?

Identified
Sites

#1b: Will the width of your riparian planting meet or exceed the **site potential tree height** at 200-years for your site?

#1c: Is there a **303(d) listing** for temperature on the stream?

Yes

#1ca: Does the project meet an exception?

None

#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.

CTUIR implements an Integrated Weed Management Plan for all of our project sites. The plan includes a 4-step approach to integrated weed management: cultural controls (disinfecting gear, cleaning equipment), mechanical controls, biological controls, and chemical controls.

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

CTUIR has 10-year term landowner agreements with the landowners involved with this project. CTUIR will continue to monitor and maintain the riparian forest for the length of these agreements. CTUIR has in the past extended agreements based on landowner interest.

Restoration Metrics

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Worksite: Walla Walla River RM 32.5 (#1)

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	0.68
Project Identified In a Plan or Watershed Assessment (C.0.c)	Walla Walla Watershed Temperature Total Maximum Daily Load. 2007. Washington State Department of Ecology 07-101-030. pp. 86. Walla Walla Water 2050 Strategic Plan. 2021. Washington Department of Ecology 21-12-011. pp. 11. Snake River Salmon Recovery Plan for SE Washington. 2011. SRSRB. pp 195.
Priority in Recovery Plan	Walla Walla Watershed Temperature TMDL: High priority Walla Walla Water 2050 Strategic Plan: Tier 1 strategy Snake River Salmon Recovery Plan for SE Washington: Priority 5 of 6 in the mainstem Walla Walla River MaSA.
Type Of Monitoring (C.0.d.1)	Implementation Monitoring
Monitoring Location (C.0.d.2)	Onsite

RIPARIAN HABITAT PROJECT

Total Riparian Miles Streambank Treated (C.5.b.1)	0.68
Total Riparian Acres Treated (C.5.b.2)	22.0

Planting (C.5.c.1)

Total cost for Planting	$70,145 **Note:** Cost to implement Riparian Management Plan for 5 years
Species Of Plants planted in riparian (C.5.c.2)	
Acres Planted in riparian (C.5.c.3)	22.0
Miles of streambank planted (C.5.c.4)	0.68
Average Riparian Width	650
Site Potential Tree Height at 200 years (SPTH-200)	450 **Note:** Followed WDFW recommendations for dryland areas where SPTH is not calculated.

Riparian Plant removal / control (C.5.h.1)

Total cost for Plant removal / control	$46,764
Species of Plants Treated/Removed in riparian (C.5.h.2)	
Acres of riparian treated for plant removal/control (C.5.h.3)	22.0
Miles of streambank treated for plant removal/control (C.5.h.4)	0.68

Worksite: North Touchet River (#2)

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	3.00
Project Identified In a Plan or Watershed Assessment (C.0.c)	Walla Walla Watershed Temperature Total Maximum Daily Load. 2007. Washington State Department of Ecology 07-101-030. pp. 86. Walla Walla Water 2050 Strategic Plan. 2021. Washington Department of Ecology 21-12-011. pp. 11. Snake River Salmon Recovery Plan for SE Washington. 2011. SRSRB. pp 195.
Priority in Recovery Plan	Walla Walla Watershed Temperature TMDL: High priority Walla Walla Water 2050 Strategic Plan: Tier 1 strategy Snake River Salmon Recovery Plan for SE Washington: Priority 2 of 4 in the Upper Touchet River MaSA.
Type Of Monitoring (C.0.d.1)	Implementation Monitoring None
Monitoring Location (C.0.d.2)	No monitoring completed Downstream Onsite Upslope Upstream

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ESTUARINE / NEARSHORE PROJECT

INSTREAM HABITAT PROJECT

PRE-RESTORATION ACQUISITIONS AND NURSERY OPERATIONS PROJECT

RIPARIAN HABITAT PROJECT

Total Riparian Miles Streambank Treated (C.5.b.1)	3.00
Total Riparian Acres Treated (C.5.b.2)	41.0

Debris/structures removal (C.5.j.1)

Fencing (C.5.d.1)

Forestry practices / stand management (C.5.i.1)

Planting (C.5.c.1)

Total cost for Planting	$105,218 **Note:** Cost to implement Riparian Management Plan for 5 years
Species Of Plants planted in riparian (C.5.c.2)	
Acres Planted in riparian (C.5.c.3)	41.0
Miles of streambank planted (C.5.c.4)	3.00
Average Riparian Width	300
Site Potential Tree Height at 200 years (SPTH-200)	300 **Note:** Followed WDFW recommendations for dryland areas where SPTH is not calculated.

Riparian Plant removal / control (C.5.h.1)

Total cost for Plant removal / control	$70,145
Species of Plants Treated/Removed in riparian (C.5.h.2)	
Acres of riparian treated for plant removal/control (C.5.h.3)	41.0
Miles of streambank treated for plant removal/control (C.5.h.4)	3.00

Water gap development (C.5.f.1)

SITE STEWARDSHIP PROJECT

CULTURAL RESOURCES

PERMITS

ARCHITECTURAL & ENGINEERING

AGENCY INDIRECT COSTS

Overall Project Metrics

COMPLETION DATE	
Projected date of completion	12/31/2031

Restoration Cost Estimates

Worksite #1: Walla Walla River RM 32.5

Category	Work Type	Estimated Cost	Note
Riparian Habitat Project	Planting (C.5.c.1)	$70,145	Cost to implement Riparian Management Plan for 5 years
	Riparian Plant removal / control (C.5.h.1)	$46,764	
	Subtotal:	$116,909	
	Total Estimate For Worksite:	$116,909	

Worksite #2: North Touchet River

Category	Work Type	Estimated Cost	Note
Riparian Habitat Project	Planting (C.5.c.1)	$105,218	Cost to implement Riparian Management Plan for 5 years
	Riparian Plant removal / control (C.5.h.1)	$70,145	
	Subtotal:	$175,363	
	Total Estimate For Worksite:	$175,363	

Summary

Total Estimated Costs:	$292,272
Total Estimated Restoration Costs:	$292,272

Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
Restoration Costs			
Restoration	$292,272		
SUBTOTAL	$292,272	100.00 %	
Total Cost Estimate	$292,272 !	100.00 %	

Funding Request and Match

FUNDING PROGRAM

Salmon State Riparian	$250,000	100.000000

SPONSOR MATCH

Questions

#1: Explain how you determined the cost estimates

Other Funding

OTHER FUNDING DETAILS

Cultural Resources

Cultural Resource Areas

Worksite #1: Walla Walla River RM 32.5

Area: Uploaded APE

#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)

Weed management and planting

#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 disturbing activities are limited to planting and/or mechanical removal of weeds. An auger may be used to drill holes for the planting. Shovels or small equipment will be used for mechanical weed removal. CTUIR staff are aware that the Walla Walla RM 32.5 site has culturally sensitive areas where no ground disturbing activities are permitted. Work will be limited to surface level weed management and seeding.

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

no ground disturbing pre-construction work is proposed as a part of the riparian grant. These activities are included in the previously funded habitat restoration 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 worksite is located on soon to be completed habitat restoration sites. This site will be newly hydraulically reconnected to the river. Planting and seeding is included in the habitat restoration work. These areas will be recently disturbed by construction activities and the plants installed as part of the project will still be establishing.

#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.

A cultural resources review is being completed for the floodplain restoration projects associated with each site.

#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: Uploaded APE

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Weed management and planting

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The worksite is located on a recently be completed habitat restoration site. This site will be newly hydraulically reconnected to the river. Planting and seeding was included in the habitat restoration work. These areas will be recently disturbed by construction activities and the plants installed as part of the project will still be establishing.

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#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.

A cultural resources review was completed for the floodplain restoration projects associated with each site.

#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: North Touchet River

Project Application Report - 26-1136

Project Permits

Permits and Reviews	Issuing Organization	Applied Date	Received Date	Expiration Date	Permit #

No permit data available.

Permit Questions

#1: Are you planning to use the **Limit 8** streamlined Environmental Species Act consultation pathway?

No

Attachments

Required Attachments	5 out of 8 done
Applicant Resolution/Authorizations	
CCA Tribal Notification	
Cost Estimate	✓
Landowner Acknowledgement	✓
Map: Restoration Worksite	✓
Photo	✓
RCO Fiscal Data Collection Sheet	
Riparian Enhancement Plan	✓

PHOTOS (JPG, GIF)

Photos (JPG, GIF)

701707

701709

701714

PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	03/11/2026	Landowner Acknowledgement	CTUIR sig page.pdf	EthanG	CTUIR sig page.pdf, 702429	
	03/11/2026	Landowner Acknowledgement	SAL-LandownerAckForm_Lofthouse.pdf	EthanG	SAL-LandownerAckForm_Lofthouse.pdf, 702428	
	03/04/2026	Riparian Enhancement Plan	NFT Riparian Mgmt Plan_2026 SRFB DRAFT.docx	EthanG	NFT Riparian Mgmt Plan_2026 SRFB DRAFT.docx, 701755 Worksite #2: North Touchet River	✓
	03/04/2026	Riparian Enhancement Plan	RM 32.5 Riparian Mgmt Plan_2026 SRFB DRAFT.docx	EthanG	RM 32.5 Riparian Mgmt Plan_2026 SRFB DRAFT.docx, 701754 Worksite #1: Walla Walla River RM 32.5	✓
	03/04/2026	Cost Estimate	SAL-CostEstimate_RiparianCTUIR.xlsx	EthanG	SAL-CostEstimate_RiparianCTUIR.xlsx, 701753	✓
	03/03/2026	Photo	North Fork Touchet	MorganC	DSC_0550.jpg, 701714	✓
	03/03/2026	Map: Restoration Worksite	NFT planting map.pdf	MorganC	NFT.pdf, 701713	✓
	03/03/2026	Map: Restoration Worksite	RM 32.5 planting map.pdf	MorganC	RM 32.5 planting map.pdf, 701712	✓
	03/03/2026	Photo	French-town_20190327_looking up irrigation creek towards pum	MorganC	French-town_20190327_looking up irrigation creek towards pump.jpg, 701709	✓
	03/03/2026	Landowner Acknowledgement	03032026_Landowner Acknowledgement Form.pdf	MorganC	03032026_Landowner Acknowledgement Form.pdf, 701708	
	03/03/2026	Landowner Acknowledgement	Marsh_Acknowledgement.jpg	MorganC	Marsh_Acknowledgement.jpg, 701707	

Application Status

Application Due Date: 06/22/2026

Status Name	Status Date	Submitted By	Submission Notes
Preapplication	01/15/2026		

I certify that, to the best of my knowledge, all information in this application is true and complete, and if artificial intelligence (AI) was used to prepare this application, I accept full responsibility for ensuring its accuracy and compliance. I understand incomplete applications will be rejected by RCO and that I may be asked to submit additional documentation before evaluation or

approval of this project. I understand that if a grant is awarded to my project, I will be bound by all representations and commitments in this application, which RCO may enforce to the fullest extent permitted by law.

Date of last change: 03/11/2026

RESTORATION

				OVERALL PROJECT	GRANT REQUEST	MATCH & OTHER FUNDING			
				Budget must account for all costs to complete the project	*Enter only the amount of the grant request*	*The Grant Request, Match, and Other Funding should equal the total project cost and Budget Check cell should be 0. Sponsors must account for all sources and types of funding needed to complete the project.*			
				Amount	Grant Amount	Match in PRISM	Other Funding not reported as match in PRISM	Source (Grant, Cash, Materials, Labor, Volunteers, etc)	Funding Type (federal, state, local)
Construction									
Category (choose one)	**Task Description**	**Qty**	**Rate**						
Other	*Year 1 weed management (acres)*	85.00	$ 255.00	$ 21,675	$ 21,675	$ -	$ -		
97	*Year 2 weed management (acres)*	85.00	$ 263.16	$ 22,369	$ 22,369	$ -	$ -		
Other	*Year 3 weed management (acres)*	85.00	$ 271.32	$ 23,062	$ 23,062	$ -	$ -		
Other	*Year 4 weed management (acres)*	85.00	$ 279.48	$ 23,756	$ 23,756	$ -	$ -		
Other	*Year 5 weed management (acres)*	85.00	$ 287.64	$ 24,449	$ 24,449	$ -	$ -		
Other	*Year 1 planting and seeding (acres)*	60.00	$ 999.38	$ 59,963	$ 59,963	$ -	$ -		
Other	*Year 2 planting and seeding (acres)*	42.00	$ 980.35	$ 41,175	$ 41,175	$ -	$ -		
Other	*Year 3 planting and seeding (acres)*	32.00	$ 932.81	$ 29,850	$ 29,850	$ -	$ -		
Other	*Year 4 planting and seeding (acres)*	30.00	$ 955.00	$ 28,650	$ 28,650	$ -	$ -		
Other	*Year 5 planting and seeding (acres)*	20.00	$ 866.25	$ 17,325	$ 17,325	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			STotal	**$ 292,273**	**$ 292,273**	**$ -**	**$ -**		

Administrative, Architechtural & Engineering				Amount	Grant amount	Match in PRISM	Funding not reported in PRISM	Match Source	Match Type (federal, state, local)
Category	**Task Description**	**Qty**	**Rate**						
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
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			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			STotal	**$ -**	**$ -**	**$ -**	**$ -**		

Indirect Costs				Amount	Grant amount	Match in PRISM	Funding not reported in PRISM	Match Source	Match Type (federal, state, local)
	Description	**Approved Rate**	**Total Project Base**						
	Indirect	0.000%	$ -	$ -	$ -	$ -	$ -		
	Indirect	0.000%	$ -	$ -	$ -	$ -	$ -		
			STotal	**$ -**	**$ -**	**$ -**	**$ -**		

AA&E Budget Check	Totals	**$ 292,273**	**$ 292,273**	**$ -**	**$ -**

Umatilla Confederated Tribes; Walla Walla Riparian Enhancement (#26-1136)

Attachment #701714, North Fork Touchet

Umatilla Confederated Tribes; Walla Walla Riparian Enhancement (#26-1136)

Attachment #701709, French-town_20190327_looking up irrigation creek towards pum

Landowner Acknowledgement Form

[redacted]

Landowner Information

Name of Landowner: Christopher March

Landowner Contact Information:

☒ Mr. ☐ Ms. Title:

First Name: Christopher Last Name: March

Contact Mailing Address: 1289 Detour Road, Walla Walla, WA 99362

Contact E-Mail Address: c.marsh@comcast.net

Property Address or Location: 1289 Detour Road, Walla Walla, WA 99362

1. Christopher March (Landowner or Organization) is the legal owner of property described in this grant application.
2. I am aware that the project is being proposed on my property.
3. If the grant is successfully awarded, I will be contacted and asked to engage in negotiations.
4. My signature does not represent authorization of project implementation.

Christopher March
Landowner Signature

3-2-2026
Date

Project Sponsor Information

Project Name:

Project Applicant Contact Information:

☐ Mr. ☐ Ms. Title:

First Name: Last Name:

Mailing Address:

E-Mail Address:

Umatilla Confederated Tribes; Walla Walla Riparian Enhancement (#26-1136)

Upland Planting
South Bank Riparian Planting
North Riparian Bank Planting

0 125 250 500 Feet

N

Existing Conditions

Overview

The project is located on the North Touchet River from River Mile 1.3 to River Mile 2.6 and includes 7,200 feet of the river and its adjacent floodplains. The project area includes property owned by two separate landowners[illegible] conservation easements held by the Blue Mountain Land trust. The willing lando[illegible]e signed an agreement to complete this work and are in support of the pr[illegible] recently sponsored floodplain reconnection projects at this locat[illegible]ar[illegible]all focus on improving instream habitat for Endangered Species[illegible] hon[illegible]ed native fish species. This management plan identi[illegible]at CTU[illegible]ment over 5 years following the implementation[illegible]irec[illegible]ecti[illegible]establish healthy riparian vegetation.

Target Species

Key fish species of con[illegible]ummer st[illegible] *mykiss*) and Bull Tro[illegible]*nfluen*[illegible]dent *mykiss),* Western[illegible]*npetra rich*[illegible]*i*), a[illegible] Chinook Salm[illegible]e N[illegible] Fork [illegible]et

Environmental Setting

The r[illegible]ed a[illegible]g th[illegible]Tou[illegible]n of where the riv[illegible]de Mo[illegible]ins upstream of [illegible]yt[illegible]

Existing Riparian Conditions

The pro[illegible] has[illegible]gati[illegible]im[illegible]e riparian clearing, wood removal, c[illegible]ation[illegible]ve[illegible]se practices have resulted in a sparse and in[illegible]ripa[illegible]con[illegible] lower two parcels of the project. The upstream pa[illegible]a mor[illegible]orest. Channel incision has also disconnected the va[illegible] flood events (e.g. 2-year, 5-year). This, combined with agricul[illegible]ulted in a valley floor largely devoid of floodplain vegetation ass[illegible]ould be typical of the region's intermediate floodplain surfaces (e.g. cott[illegible]Hawthorne, pine). As the channel has incised, smaller inset point bars and flo[illegible]ains have developed, and today, riparian plant assemblages have occupied these surfaces. These assemblages are primarily native and include deciduous species including cottonwood, dogwood, and alder.

The floodplain reconnection projects were implemented in 2020 and 2021 and included planting of native plants, both cuttings and potted plants. These initial plantings are

becoming established, but the site requires continued stewardship to achieve the project goals of a healthy riparian forest.

Limiting Factors

This project is designed to address a number of limiting factors, as identified by CTUIR, for target species in the project area, including a lack of in-channel characteristics, limited passage/entrainment, and reclaiming riparian and floodplain function and connectivity. Project objectives are intended to impr[redacted]se primary limiting factors and are presented in Table 1. In addition to these [redacted]ors, the Touchet River currently has a category 4A water quality listin[redacted](Washington Department of Ecology Listing #23779), an[redacted]Wa[redacted]lla River Subbasin TMDL for pH, dissolved oxygen, and ten[redacted]

Table 1. Limiting factors and project objectives

Primary limiting factors	Project objectives
In-channel characteristics	Increase channel complexity, with morphology closer to historical function and form
	Increase stream velocity diversity at a range of flows
	Improve sediment sorting and routing
	Improve in-stream thermal diversity
	Increase quantity and quality of habitat diversity, especially LWS and pools
Passage/entrainment	Increase locations suitable for adult spawning
	Increase area suitable for juvenile rearing
Riparian/floodplain	Increase floodplain connectivity
	Increase riparian function

Restoration Objectives

The goal of this [redacted]tion [redacted]an i[redacted]estore self-sustaining functioning riparian habitat th[redacted]rts t[redacted]isted above and supports the objectives of the floodplain rest[redacted]all floodplain reconnection projects objectives are consisten[redacted]CTUIR's River Vision Touchstones

- **Water Quality and Qu[redacted]** ncrease base flow through functional connection with the alluvial aquifer a[redacted]decrease summer stream temperatures.
- **Geomorphology :** Restore natural form; sinuosity; complexity; geomorphic stability; enhance large wood and boulders to increase channel complexity; and improve sediment routing/dispersal.
- **Connectivity :** Increase lateral connection with the historic floodplain and vertical connection with the alluvial aquifer.

- **Riparian Vegetation :** Protect existing riparian vegetation and enhance vegetation to improve geomorphic function and water quality.
- **Aquatic Biota :** Increase the quality, quantity and diversity of habitat for resident and anadromous fish of all age classes.

Plan Maps

Site Preparation Methods

In April, 2022 this p veyed for invasive weed abundance and distribution, recent disturbanc flooding have increased invasive weed presence. Existing native riparian vegetatio includes black cottonwood, ponderosa pine, alder, and black hawthorn, along with many native grasses and forbs such as great basin wildrye bunchgrass. Invasive weed species commonly seen on-site include knapweeds (*Centaurea spp.*), common tansy *(Tanacetum vulgare),* bull thistle (*Cirsium spp.*), Poison hemlock *(Conium maculatum*), Himalaya blackberry *(Rubus ameniacus),*

whitetop *(Lepidium draba),* Scotch thistle *(Onopordum acanthium),* houndstongue *(Cynoglossum officinale),* St. John's wort *(Hypericum perforatum),* common bugloss *(Anchusa officinalis),* common mullein *(Verbascum thapsus)..* A more complete list of priority weeds species and mechanical, chemical, and biological management options are listed in the table in Appendix A.

Timeline for mechanical, chemical, and biological control of invasive weeds:

Spring – Chemical control of spring flowering weeds b[illegible] April 1st (prior to bird nesting season). Using a tank mix of aminopyralid (Milest[illegible]nic surfactant, and spray indicator dye at a **rate of 5 to 7 fl oz /acre** on p[illegible]d growth stage of rush skeleton weed, Scotch thistle rosettes, Can[illegible]gr[illegible]yellow starthistle in rosette through bolting growth stages, a[illegible]ette s[illegible]

Use a mix of 2,4,D amine and metsu[illegible]Esco[illegible] at r[illegible]d rates targeting actively growing poison[illegible]se k[illegible]l co[illegible]ss, White top in cress growth stage, Bla[illegible]n, ye[illegible]

Mechanical control of spri[illegible]

Summer – Chemical [illegible]hanic[illegible]l of s[illegible] puncturevine and l[illegible]emoval o[illegible]ng in[illegible]

Fall – Spot sp[illegible]abli[illegible]r grass[illegible]d[illegible]tened over time. M[illegible]intenance[illegible]emoval o[illegible]ned[illegible]and mature plants/s[illegible]nica[illegible]ol o[illegible]nia[illegible]d spotted knap[illegible]

V[illegible]ring, remov[illegible]y ov[illegible]ering[illegible]h thistle and bugloss.

Riparian Planting Methods

Once the sit[illegible]en p[illegible]d, [illegible]x of native wetland/riparian seed mixes, planting[illegible]d plants a[illegible]ghout the riparian zones, and planting of upland species [illegible]lan[illegible]river to support upland wildlife species.

Seeding will occur eac[illegible]e of five years. Seeding will target areas of disturbance from weed re[illegible]as of sparse vegetation. A general application rate of 35 lb/acre will be appl[illegible]e whole site.

Willow, cottonwood, and red osier dogwood cuttings will target the toe and bank zones where cuttings will be exposed to more consistent moisture for root establishment. Cuttings will be collected from mature plants already located on site or a nearby project site. Cuttings will be soaked more two weeks before planting.

DRAFT

Planting of nursery stock will follow a general cluster planting schematic, some areas, such as those with pockets of good soil or moisture, will be planted at higher density of 2-3 foot on center compared to the overall planting density of 6 foot on center spacing (see Figure 2).

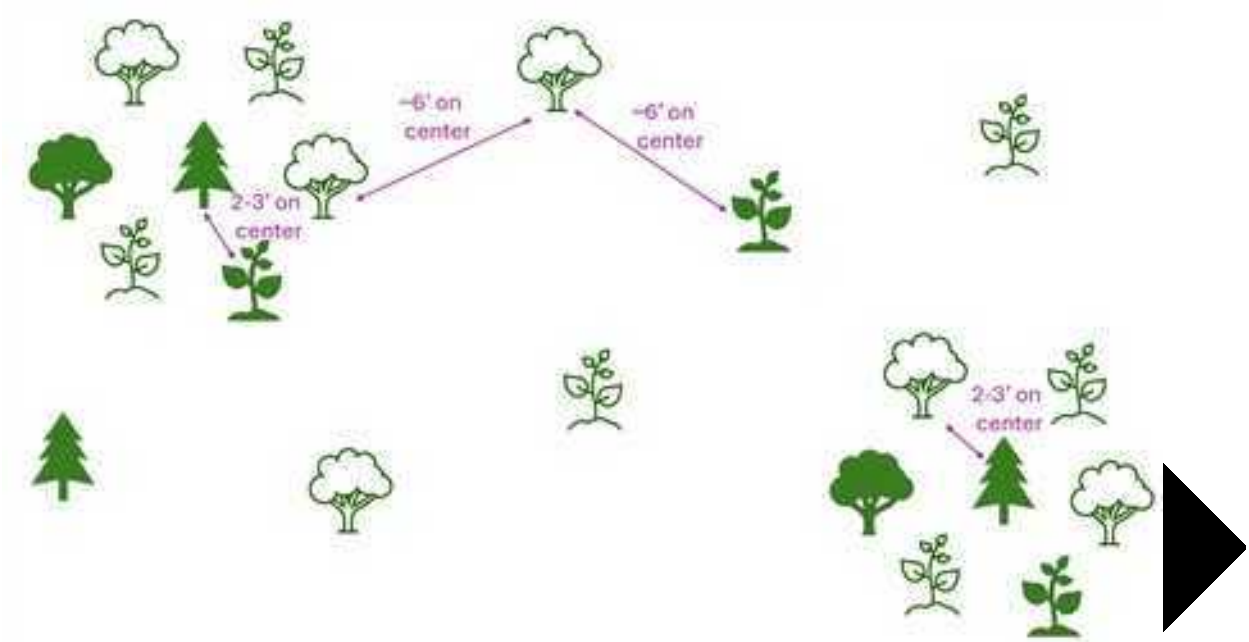


Figure 2. General schematic for cluster planting

Species Lists

Rip d seed mixes a ste ixes will be e of 35 lbs/a to th gons on year one. Sui year ly s mix reas with low survival. Some ithin t be ary a any ground disturbing activity a se ea plants or cuttings.

Table 2. Seed mixes by site condition

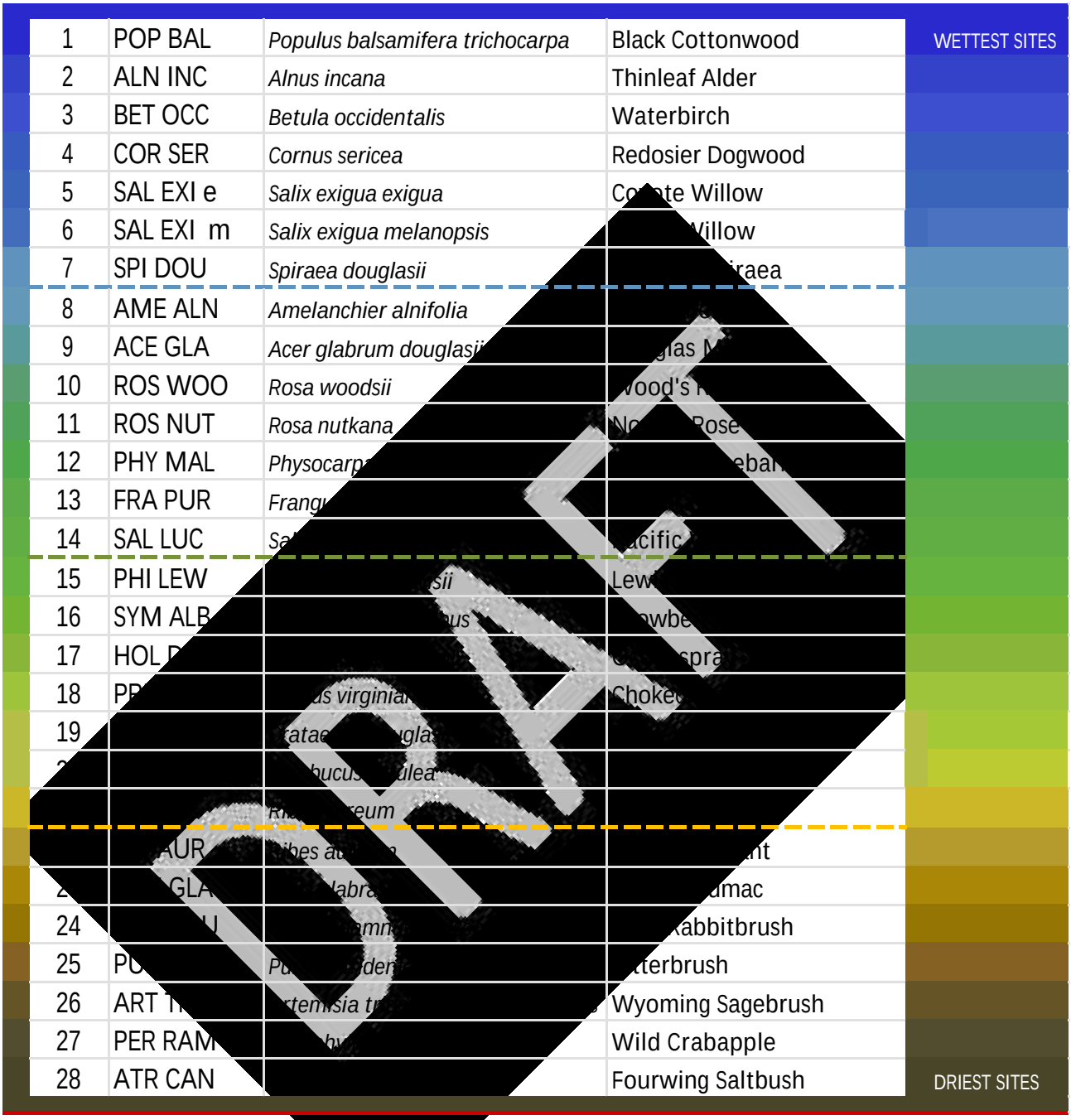
Hydric Sites		
Common Name	**Scientific Name**	**Percent Composition**
Basin wildrye	*Leymus cinereus*	40%
Idaho Fescue	*Festuca idahoensis*	40%
Mountain Brome	*Bromus marginatus*	15%
Tufted Hairgrass	*Deschampsia cespitosa*	5%

Upland Sites		
Common Name	**Scientific Name**	**Percent Composition**
Basin wildrye	*Leymus cinere*	30
Idaho Fescue	*Festuca idah*	
Sandberg Bluegrass	*Poa s*	1
Prairie Junegrass	*Koeler*	15%
Bluebunch Wheatgrass	*Pseu* *a*	%
Mountain Brome	*s*	

Nursery stock will be ... the li... 3 ba... availability. The lis... ater need... nd p... the lower water nee... a/we... nd spe... will l... higher water needs ... nt qu... are ...lected in t... n Table 4.

DRAFT

Table 3. Plant species by site specific conditions

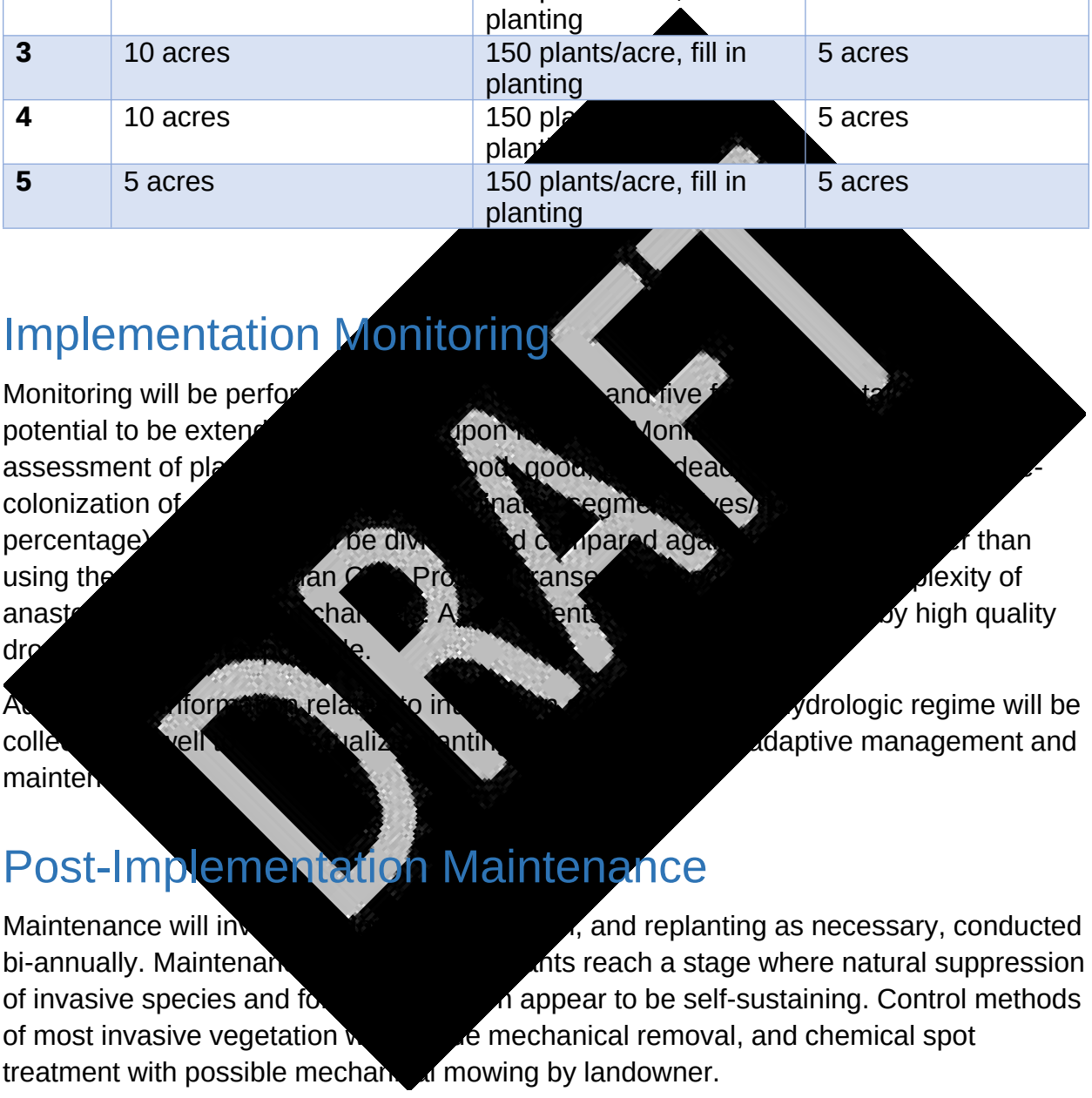


Planting Schedule

Planting will occur on the following schedule to achieve target densities.

Table 4. Planting schedule

Year	Planting area	Planting density	Seeding area
1	20 acres	150 plants/acre, cluster planting	5 acres
2	15 acres	150 plants/acre, cluster planting	5 acres
3	10 acres	150 plants/acre, fill in planting	5 acres
4	10 acres	150 pla plant	5 acres
5	5 acres	150 plants/acre, fill in planting	5 acres



Implementation Monitoring

Monitoring will be perfor and five f ta
potential to be exten upon Monit
assessment of pla ood, good, dead
colonization of nat segme ves/
percentage) be di d c mpared aga r than
using the an C Pro ranse plexity of
anast cha A ent by high quality
dro e.

A nform n rela to in ydrologic regime will be
colle ell ualiz anti daptive management and
mainte

Post-Implementation Maintenance

Maintenance will inv , and replanting as necessary, conducted bi-annually. Maintenan nts reach a stage where natural suppression of invasive species and fo n appear to be self-sustaining. Control methods of most invasive vegetation w e mechanical removal, and chemical spot treatment with possible mecha l mowing by landowner.

Adaptive Management

Draft due after completion of planting. Final due by closing

As-Built Documentations

Due before closing

References

Interfluve 2019. North Fork Touchet River Habitat R[illegible]on River Mile 1.3-2.0 Basis of Design Report

Interfluve 2020. North Fork Touchet River H[illegible]ion[illegible]r Mile 1.7-2.6 Basis of Design Report

Existing Conditions

Overview

The project is located on the Walla Walla River in the vicinity of River Mile 32.5 and includes approximately 2,300 feet of the mainstem and its adjacent floodplains. The project area includes land owned by CTUIR along th t (north) bank and four privately owned parcels along the left (south) ban g landowners have signed an agreement to complete this work and are in oject. CTUIR is sponsoring a floodplain reconnection projec has an overall focus on improving instream habitat for Endan ct (non-ESA-listed native fish species. This management activitie R will implement over 5 years following th flo nection project to establish healthy ripar

Target Species

Species of interest incl Columbi (*mykiss*), Spring Chin corhy awy (*Salvelinus confl*

Environmental Setting

The proj ated g th a W e Mill Creek confl roug larg al f he river leaves th n-Freewater. In the , the river has cut d layers of sedi t tha dep lackwater of glacial Lak a la ary that rs from the Missoula Floods wed ked hi south of Pasco, Washington where the alla ows er. While downcutting, the river reworked the ter en e floodplain within the larger Walla Walla Valley.

Prior to anthropogen moved across the wide valley floor but has since been relegated to e to incision and agricultural practices implemented in the valley. ncut further within the historical pre-anthropogenic floodplain it fo n the project area, the historical floodplain on either side of the river is only inundated during higher than 50-year recurrence interval floods. Since downcutting, the river has been forming a new inset floodplain associated with the current stream elevation between the high floodplain surfaces.

DRAFT

Existing Riparian Conditions

Riparian and floodplain conditions at the site have been heavily impacted by historical agricultural practices, surface diversions, residential road development, bank armoring and flood control activities. The riparian canopy largely consists of black cottonwood (*Populus trichocarpa*), alder (*Alnus sp.*) and willow (*Salix sp.)* and is limited to the channel margins. The width of the overstory canopy varies between 20 and 300 feet along the left (south) bank and 0 to 110 feet along the ght (north) bank. The left bank includes a vegetated buffer along the river that wa sly enrolled in a Conservation Reserve Enhancement Program (this margin an inset floodplain runs the length of the project reach tated with reed canarygrass (*Phalaris arundinacea*). Cha term either bare or covered in reed canarygrass and other ablish n. The lack of established riparian vegetation with g th har exacerbates thermal loading of the channel.

Limiting Factors

Habitat limiting factors t nptomati that have been ongoi n a ce strea substantially redu ime. The d str riparian degrad mpl tion h esu er temperature y exce herm al ra ge tol monids. Within th nect ide els a thermal loadin onth nic sp favors non-nat ler months, wh wat suitable for s e is very litt mple ture as that provide secure refu seq nima uita ble in shallower channel margi they ecte high creased predation risk.

Despite the istin at this reach, there is considerable potential for in ent ing t t riparian vegetation and available lateral floodplain lecti ing levees, moderate channel grading and installation of L xpansion and secure refugia areas for salmonids at their mos es. Additionally, consolidating irrigation infrastructure will reduce t degrading channel modifications, potentially keep more water instream a the risk of screen impingement.

DRAFT

Restoration Objectives

The goal of this restoration plan is to enhance and restore self-sustaining functioning riparian habitat that supports the target species listed above and supports the objectives of the floodplain restoration project. The floodplain reconnection project objectives are consistent with all five of the CTUIR's River Vision Touchstones

- **Water Quality and Quantity** : Increase base flo hrough functional connection with the alluvial aquifer and decrease summ n temperatures.
- **Geomorphology :** Restore natural form; s lexity; geomorphic stability; enhance large wood and bou nnel complexity; and improve sediment routing/dispersa
- **Connectivity :** Increase lateral c he his ain and vertical connection with the alluvial a
- **Riparian Vegetation :** Pro arian n a vegetation to improve geomorphic ater
- **Aquatic Biota :** Incr ntity div habi nt and anadromou

Plan Maps

The plantin een categ into two nera will have a differen sitio acte ta s the extent of each

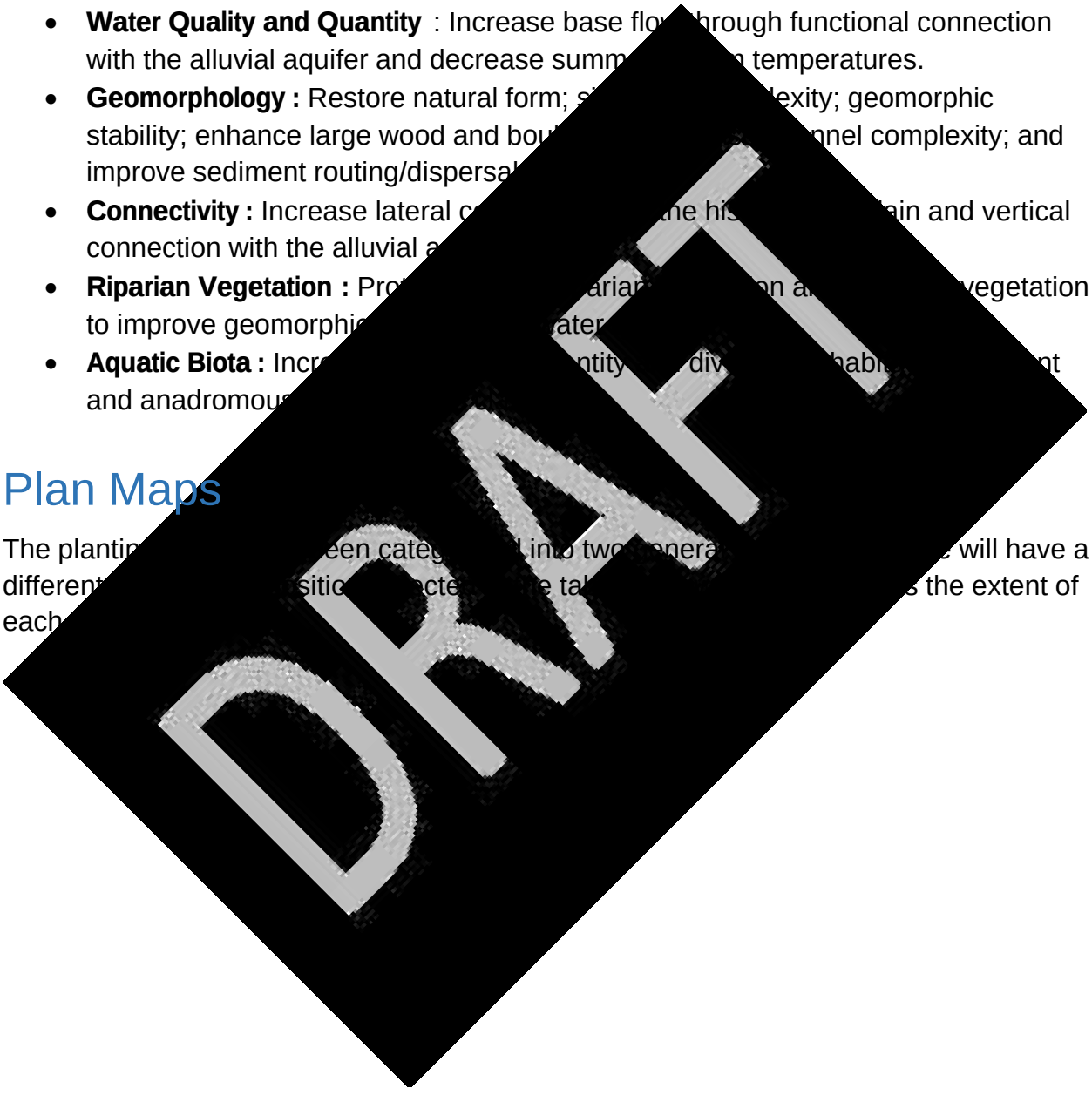


Figure 1. Planting areas map

Site Preparation Methods

In April 2022 this project was surveyed for invasive weed abundance and distribution, recent disturbances from flooding have increased invasive weed presence. Existing native riparian vegetation includes black cottonwood, ponderosa pine, alder, and black hawthorn, along with many native grasses and forbs such as great basin wildrye bunchgrass. Invasive weed species commonly seen on-site include poison hemlock (*Conium maculatum*), common bugloss (*An* *officinalis*), spotted knapweed (*Centauria stoebe*), scotch thistle (*Ono* *anthium*), blackberry (*Rubus armeniacus*), Canada thistle (*Cirsium a* itetop (*Lepidium draba).* A more complete list of priority weeds speci ical, and biological management options are listed in the tab A.

Timeline for mechanical, chemical, a ontrol of in ds:

Spring – Chemical control of spr eeds ss b st (prior to bird nesting season). Using a inop), n actant, and spray indicator dye at lacr pre arly stage of rush skeleton s, Can starthistle in rosette rowth nd te

Use a mix of 2 on thyl ( ) at targeting acti oison k, d ase knapw s, White top in cre , Bla berry wth,

Mech g flo ring

nical contro d me ical co wering weeds like pu and See ad re ive weeds.

Fall – S y we s in st nd where it has weakened over time. ical an d seedlings/rosettes and mature plants/seedhe emi cont ds like blackberry and spotted knapweed.

Winter – monitoring, g rosettes like scotch thistle and bugloss.

Riparian Planting Methods

Once the site has been prepped, the site will be seeded with a mix of native wetland/riparian seed mixes, planted with potted plants and cuttings throughout the riparian zones, and planted with upland species in the upland areas along the river to support upland wildlife species.

Seeding will occur each year over the course of five years. Seeding will target areas of disturbance from weed removal and areas of sparse vegetation. A general application rate of 35 lb/acre will be applied to the whole site.

Willow, cottonwood, and red osier dogwood cuttings will target the toe and bank zones where cuttings will be exposed to more consistent moisture for root establishment. Cuttings will be collected from mature plants already located on site or a nearby project site. Cuttings will be soaked at least two weeks before planting.

Planting of nursery stock will follow a general clus schematic, some areas, such as those with pockets of good soil or moi ted at higher density of 2-3 foot on center compared to the overall p or on center spacing (see Figure 2).

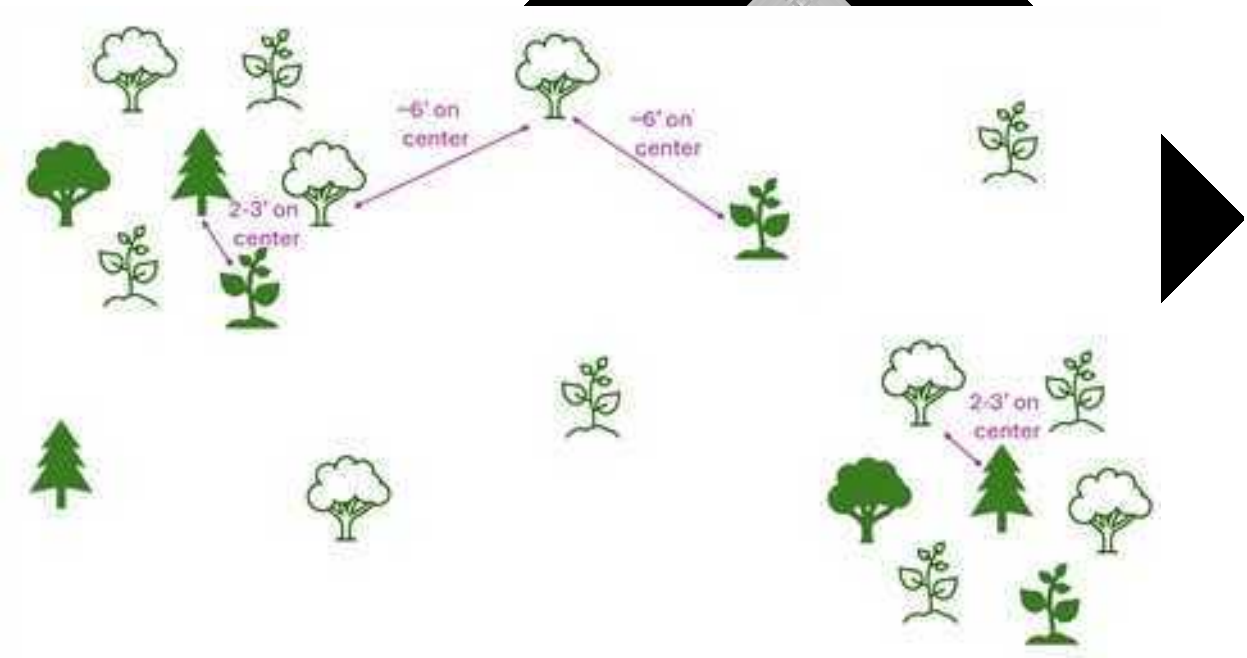


Figure 2. General schematic for cluster planting

Species Lists

Riparian/wetland and isted in Table 1. Seed mixes will be applied at a rate of 35 lb gons shown shown in Figure 1 on year one. Subsequent years will appl s to disturbed areas or areas with low survival. Some areas within the project dary are restricted from any ground disturbing activity and will be seeded instead of planted with potted plants or cuttings.

Table 1. Seed mixes by site condition

Hydric Sites		
Common Name	**Scientific Name**	**Percent Composition**
Basin wildrye	*Leymus cinereus*	40%
Idaho Fescue	*Festuca idahoensis*	40%
Mountain Brome	*Bromus marginatus*	15%
Tufted Hairgrass	*Deschampsia cespitosa*	5%

Upland Sites		
Common Name	**Scientific Name**	**Percent Composition**
Basin wildrye	*Leymus cinere*	30
Idaho Fescue	*Festuca idah*	
Sandberg Bluegrass	*Poa s*	1
Prairie Junegrass	*Koeler*	15%
Bluebunch Wheatgrass	*Pseu* *a*	%
Mountain Brome	*s*	

Nursery stock will be the li 2 ba availability. The list ater need nd p the lower water nee /we nd spe will i higher water needs nt qu are ected in t n Table 3.

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Table 2. Plant species by site specific conditions

1	POP BAL	*Populus balsamifera trichocarpa*	Black Cottonwood	WETTEST SITES
2	ALN INC	*Alnus incana*	Thinleaf Alder	
3	BET OCC	*Betula occidentalis*	Waterbirch	
4	COR SER	*Cornus sericea*	Redosier Dogwood	
5	SAL EXI e	*Salix exigua exigua*	Coyote Willow	
6	SAL EXI m	*Salix exigua melanopsis*	Dusky Will	
7	SPI DOU	*Spiraea douglasii*	Douglas	
8	AME ALN	*Amelanchier alnifolia*	Ser	
9	ACE GLA	*Acer glabrum douglasii*		
10	ROS WOO	*Rosa woodsii*		
11	ROS NUT	*Rosa nutkana*		
12	PHY MAL	*Physocarpa malvaceus*	ninebark	
13	FRA PUR	*Frangula purshiana*	ra	
14	SAL LUC	*Salix lucida lasia*	acific	
15	PHI LEW	*Philadelphu*	Lewis	
16	SYM ALB	*Sympho*	wber	
17	HOL DIS	*Hol*	spray	
18	PRU VIR		ry	
19	CRA DOU		Black n	
20	SAM CE		Elderbe	
21	RIB	um	Wax Cu nt	
22		aureu	Gol	
23		ra	Smo	
		us nauseosus	ey R	
		Purshia tri	Bit	
	RI w	*trider* wyom		
27		*kamo* m		
28	A	*At* ens	ash	DRIEST SITES

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Planting Schedule

Planting will occur on the following schedule to achieve target densities.

Table 3. Planting schedule

Year	Planting area	Planting Density	Seeding Area
1	25 acres	150 plants/acre, cluster planting	10 acres
2	15 acres	150 plants/a ster planting	7 acres
3	10 acres	150 plants/acre, fill in planting	7 acres
4	10 acres	15 ill in	cres
5	5 acres	150 plants/acre, fill in planting	5 acres

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Implementation Monitoring

Monitoring will be one, thre ive
potential to be an ring. ive
assessment th (ve , poor, d nd re-
colonizati invasive d ed ser ted
percen will b de omp rather than
usin Core Protocol sec complexity of
a oodplain ch els. sme nted by high quality
dro y wh sible.

Additio rma ed nd red hydrologic regime will be
collected a co ze orm adaptive management and
maintenance

Post-Implementation Maintenance

Maintenance will involve ontrol, and replanting as necessary, conducted bi-annually. Maintenance wi til plants reach a stage where natural suppression of invasive species and forest s ession appear to be self-sustaining. Control methods of most invasive vegetation will include mechanical removal, and chemical spot treatment with possible mechanical mowing by landowner.

Adaptive Management

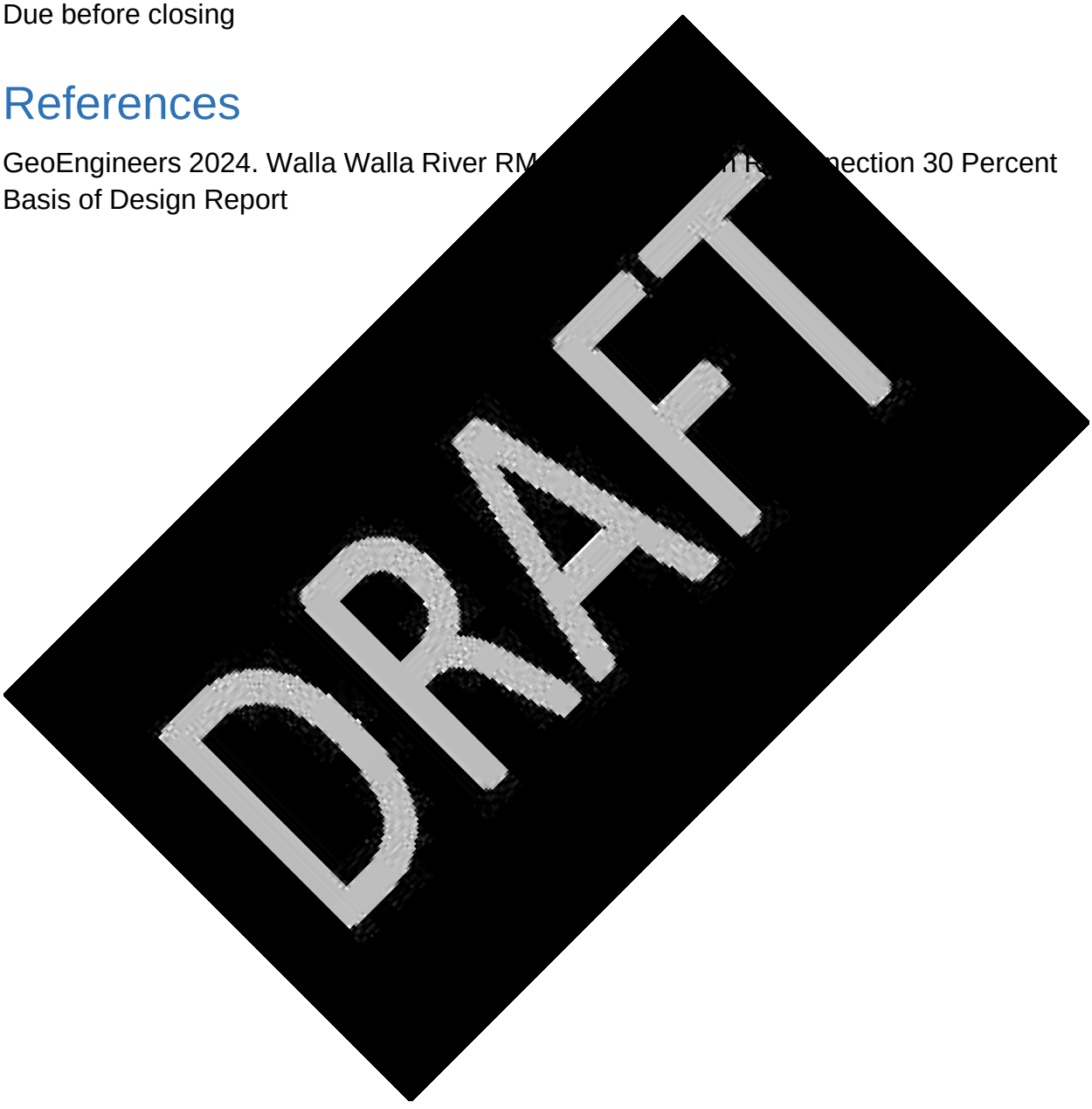
Draft due after completion of planting. Final due by closing

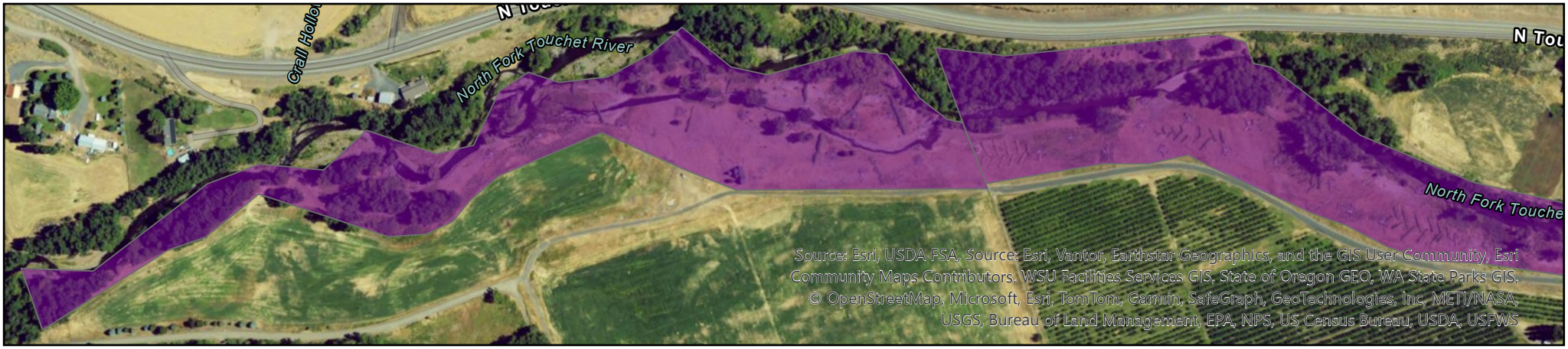
As-Built Documentations

Due before closing

References

GeoEngineers 2024. Walla Walla River RM [illegible] nection 30 Percent Basis of Design Report





Upland Planting

Riparian Planting

0 155 310 620 Feet

Landowner Acknowledgement Form

Landowner Information

Name of Landowner:Empey Holdings, LLC

Landowner Contact Information:

x Mr. ☐ Ms. Title:

First Name:Nolan Last Name: Empey

Contact Mailing Address: 4665 Sheffield Road, Mesa, WA 99343

Contact E-Mail Address: njempey@yahoo.com

Property Address or Location: **108 Vernon Lane, Dayton, WA**

1. Empey Holdings, LLC (Landowner or Organization) is the legal owner of property described in this grant application.
2. I am aware that the project is being proposed on my property.
3. If the grant is successfully awarded, I will be contacted and asked to engage in negotiations.
4. My signature does not represent authorization of project implementation.

Landowner Signature

March 3, 2026

Date

Project Sponsor Information

Project Name:

Project Applicant Contact Information:

☐ Mr. ☐ Ms. Title

First Name: Last Name:

Mailing Address:

E-Mail Address:

Landowner Acknowledgement Form

Landowner Information

Name of Landowner:

Landowner Contact Information:

☒ Mr. ☐ Ms. Title:

First Name: Bill Last Name: Warren

Contact Mailing Address: 650 Wagon Rd. Dayton WA 99328

Contact E-Mail Address: W3Warren@msn.com

Property Address or Location: End of Baleysburg Road

1. (Landowner or Organization) is the legal owner of property described in this grant application.
2. I am aware that the project is being proposed on my property.
3. If the grant is successfully awarded, I will be contacted and asked to engage in negotiations.
4. My signature does not represent authorization of project implementation.

Willis W. Warren 3/4/26

Landowner Signature Date

Project Sponsor Information

Project Name:

Project Applicant Contact Information: Same as above

☐ Mr. ☐ Ms. Title

First Name: Last Name:

Mailing Address:

E-Mail Address:

Landowner Acknowledgement Form

Landowner Information

Name of Landowner:

Landowner Contact Information:

☑ Mr. ☐ Ms. Title:

First Name: Larry Last Name: Lofthouse

Contact Mailing Address: 231 Rye Grass Rd., Walla Walla, WA 99362

Contact E-Mail Address: larry.lofthouse@gmail.com

Property Address or Location: 231 Rye Grass Rd., Walla Walla, WA 99362

1. (Landowner or Organization) is the legal owner of property described in this grant application.
2. I am aware that the project is being proposed on my property.
3. If the grant is successfully awarded, I will be contacted and asked to engage in negotiations.
4. My signature does not represent authorization of project implementation.

_____ 03-03-2026

Landowner Signature Date

Project Sponsor Information

Project Name:

Project Applicant Contact Information:

☐ Mr. ☐ Ms. Title

First Name: Last Name:

Mailing Address:

E-Mail Address: