Aquatic Species Restoration Plan

Project Implementation Cover Sheet

Project Name: _____

Use the following syntax: "Stream Name_Location_Type_Phase," e.g., "Dry Bed Creek_RM 8 to 9_Passage and Restoration_Design."

Project Contact Information

Sponsor Name: _____

Contact Person: _____

Email: _____

Phone Number: _____

Mailing Address: _____

Project Information

Project Address (main access): _____

Project Parcels: _____

Project GPS Decimal Coordinates (approximate center of restoration area): _____

_____

Project GPS Decimal Coordinates (please add for each additional location if you have multiple sites):

_____

Have participating landowners signed a landowner acknowledgement form? Yes ☐ No ☐

Priority Geospatial Unit (see Attachment A for a list of priority GSUs): _____

Other Geospatial Unit: _____

If your project is not located within an Aquatic Species Restoration Plan (ASRP) priority geospatial unit (GSU), please provide a description of how your project will directly benefit an ASRP priority GSU or ASRP focal species. GSU maps can be found at the following links: Years 1–10 Near-Term Priorities for ASRP Implementation, Years 11–20 Mid-Term Priorities for ASRP Implementation, and Years 21–30 Long-Term Priorities for ASRP Implementation.

Conflict of Interest Disclosure

Team members must inform the ASRP Implementation Manager, the Regional Implementation Team (RIT), and the RIT Lead when there may be a real or perceived conflict of interest. If a member stands to benefit or has other ties to a project, the member should notify the group, have a discussion, and follow the consensus of the group as to the presence of a conflict of interest, how serious it is, and what action to take. If the member does not think they have a conflict, they should clearly state why.

A conflict of interest may constitute the following:

- *The potential for personal financial (or other) gain from the project*
- *Having conducted private business or personal services with a sponsor organization or key stakeholder, such as a landowner*
- *Involvement with other organizations or vendors, or any other associations that might produce a conflict of interest regarding a specific project proposal*

Is the participating landowner(s) also a project sponsor or ASRP program staff? Yes ☐ No ☐

If yes, please describe: _____

Are any project partners (sponsor, design team, or landowner) also part of the ASRP funding approval process (Technical Review Team, ASRP Steering Committee, Chehalis Basin Board)? Yes ☐ No ☐

If yes, please describe: _____

Describe any other potential conflicts of interest:

Initial Site Assessment Template

Project Overview

Which priority GSU is this project in? _____

Which top three limiting factors are prioritized in this GSU?

What restoration/protection actions are prioritized for this GSU? Specify High, Medium, and Low priorities.

How do the actions you propose specifically address the limiting factor(s) identified above? How effective are those actions likely to be in addressing the limiting factors (local scale vs. GSU scale)?

Is (are) the landowner(s) interested and willing to participate? Yes ☐ No ☐

Is (are) the landowner(s) interested in an acquisition or easement? Yes ☐ No ☐

Background Information

Using available GIS and published data (example data source links provided for each subsection), provide brief information to address each of the following major ecosystem topics. This information is important to help project reviewers and participants understand the key watershed issues and how feasible your project is to address the identified limiting factors and achieve ASRP goals.

Sub-Basin Overview

Ecoregion: _____

Dominant land uses (OCB webmaps, aerial, landcover, parcels, zoning):

Known aquatic species presence (ASRP document, SalmonScape, Priority Habitats and Species map; *please include specific life-stage use and population density information where possible*):

Which ASRP focal or indicator species will your proposal specifically address (can be more than one species)? *Include information on how your project will specifically address these species in the "Opportunities/Project Concept Plan" section below.*

ASRP Focal Species	**ASRP Potential Indicator Species (Phase 1)**
☐ Spring-run Chinook salmon	☐ Winter-run steelhead
☐ Oregon spotted frog	☐ Coho salmon
☐ Coastal tailed frog	☐ Fall-run Chinook salmon
	☐ Chum salmon
	☐ Mountain whitefish
	☐ Eulachon
	☐ Pacific lamprey
	☐ Olympic mudminnow
	☐ Speckled dace
	☐ Largescale sucker
	☐ Riffle sculpin
	☐ Reticulate sculpin
	☐ Western toad
	☐ Northern red-legged frog
	☐ Van Dyke's salamander
	☐ Great blue heron
	☐ Barrow's goldeneye
	☐ Wood duck
	☐ North American beaver
	☐ Western pond turtle
	☐ Western ridged mussel

Hydrology

Describe hydrologic conditions and issues within the GSU and sub-basin. For example, are low flows a concern, or are high flows or scour a concern? *Gage data may be obtained from https://waterdata.usgs.gov/wa/nwis/rt.*

Geology/Soils

Would any special conditions affect opportunities? Yes ☐ No ☐

What is the underlying geology in the GSU that may contribute to special conditions or denote specific sediment or geomorphologic conditions? (Washington Geologic Information Portal)

What are the primary soils on your project site, and would they affect project actions? For example, is erosion a concern and are soils easily erodible? (https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx)

Floodplains

Is your project site within a mapped floodway or floodplain? *Attach floodplain map or screenshot for your project site (https://msc.fema.gov/portal\home)*. Yes ☐ No ☐

Are there houses, structures, or infrastructure on or adjacent to your project site that could be affected by or constrain your proposed actions in the floodway or floodplain? Are there opportunities to work with adjacent landowners to reduce constraints? *Provide a brief description.*

Water Quality

Is your project site in an area listed for impaired water quality? (https://apps.ecology.wa.gov/waterqualityatlas/wqa/proposedassessment) Yes ☐ No ☐

Is water temperature or other water quality concerns a limiting factor for aquatic species at your project site? Yes ☐ No ☐

Would actions taken at your project site ameliorate water quality concerns at your project site (local scale) and/or contribute to ameliorating water quality conditions at a larger scale (e.g., at the GSU scale)?

Site Conditions from Initial Site Assessment

Geomorphology

Identify geomorphic conditions in your project area (such as past or recent avulsions, bank armor, levees, evidence of bed incision or sediment aggradation, or large wood deposition) and how substantial and/or widespread these conditions are within the reach.

How would your proposed actions restore natural geomorphic processes in the reach, and what constraints might affect their effectiveness (e.g., existing levees or bank armoring that is protecting structures or infrastructure; ongoing land uses)? *Attach photographs.*

Habitat Conditions

Aquatic

Describe the general stream habitat characteristics of your project reach (e.g., pools, riffles, glides, side-channels, oxbows, or presence of large wood). Describe how your actions would result in increased habitat quantity and quality within the project reach.

Riparian

Describe the riparian conditions of your project reach (e.g., generally forested with deciduous trees such as alder and big-leaf maple ranging from 12 to 24 inches in diameter). Describe how your actions would increase riparian quantity and quality and contribute to riparian processes.

Barriers

Are there fish passage barriers within your project reach? If so, explain. Describe if/how your actions would address fish passage barriers within the project reach. Yes ☐ No ☐

Opportunities/Concept Plan

Describe proposed restoration actions with a narrative on which actions are most important and why. Attach an aerial map with parcels and project area outlined with concept features (can be circles with callouts indicating project features).

Timeline and Deliverables

Identify the estimated timeline and phases for your project and the deliverables associated with each phase (see Attachment B for example project deliverables, e.g., conceptual design report, final plans and specifications).

Received and Anticipated Permits

Identify any permits that have already been received for this project. List any permits that you anticipate you would need for this project, and describe any expected delays or roadblocks in receiving those permits.

Which ASRP Goals Does Your Project Contribute To?

☐ Protect and restore natural habitat-forming processes within the Chehalis Basin watershed context.

- ☐ Protect and restore natural riverine processes including channel migration, sediment and wood transport, and floodplain connectivity.
- ☐ Protect and restore riparian processes and functions including cover, shade, inputs of large wood, leaf litter and insect inputs to the aquatic food web, sediment and erosion functions, nutrient and pollutant trapping and filtering, and floodplain processes.

☐ Increase the quality and quantity of habitats for aquatic species in priority areas within the Chehalis Basin.

- ☐ Significantly increase quality of and access to instream habitat for aquatic species (including habitat needs for migration, reproduction, rearing/feeding, and overwintering habitats).
- ☐ Protect and enhance existing functioning core habitats for species across their life history trajectories.
- ☐ Increase habitat complexity and diversity.
- ☐ Protect and restore native riparian, floodplain, off-channel, and wetland habitats.
- ☐ Minimize suitability for invasive species within instream and riparian habitats.

☐ Protect and restore aquatic species viability within and across the Chehalis Basin considering viable species population parameters.

☐ Increase watershed resiliency to climate change by protecting and improving natural water quantity, timing characteristics, and water quality characteristics.

Budget Narrative

Provide an overall narrative of what you are requesting funding for (e.g., design only, design and construction, construction only) and provide an explanation of how the costs were derived.

Funding Plan

Please describe if you have received previous ASRP funding (such as for an earlier phase of the project) or if you have or have applied to obtain matching or supplementary funding, including the source of the funding and any time restrictions on funding.

Initial Cost Estimate

Fill in proposed project design and/or construction or acquisition costs. If design is included, please state to what level of design you are proposing (conceptual, preliminary, final) and provide a more detailed explanation of design costs.

ASRP Reach-Scale Project- Concept Level Cost Estimate

Construction	**Unit**	**Unit Cost**	**Type**	**Number**	**Subtotal**
Fish Barrier Removal	Each				
Engineered Log Jams	Each				
Beaver Dam Analogs	Each				
Large Wood (Single Pieces)	Each				
Riparian Restoration	Acre				
Floodplain Reconnection	Linear Feet				
Oxbow or Side-Channel Reconnection	Linear Feet				
Wetland Restoration	Acre				
Invasive Species Management	Acre				
Other (please explain):					
AA&E	Lump Sum	N/A	N/A	N/A	
Removals or Relocations	Each				
Acquisition or Easement	Acre				
Subtotal Construction					
Design[1]	Lump Sum	N/A	N/A	N/A	
Permitting[2]	Lump Sum	N/A	N/A	N/A	
Management[3]	Lump Sum	N/A	N/A	N/A	
Cultural Resources[4]	Lump Sum	N/A	N/A	N/A	
Other (please explain):					
Contingency[5]	Lump Sum	N/A	N/A	N/A	
Indirect[6]	Lump Sum	N/A	N/A	N/A	
Tax					
Total					

Notes:

1. Design is typically 10% to 15% of construction costs (less for planting or invasives treatment projects).
2. Permitting is typically 5% to 10% of construction costs (less for planting or invasives treatment projects).
3. Management includes sponsor management and construction management and is typically 10% to-15% of construction costs.
4. Cultural Resources should be included for all restoration and protection projects. Costs are dependent on project scale and specific site considerations; consult with a cultural resource professional for more accurate cost estimates. Costs can range from $10k+ for projects less than 1 acre, $25k+ for projects 1 to 50 acres, and $100k+ for projects greater than 50 acres.
5. Contingency at the early project stage is typically 25% to 30%.
6. Per Washington State Recreation and Conservation Office (RCO) rules, sponsors may charge up to 10% of modified total direct costs, a federally approved rate, or an RCO-negotiated rate. Rates must be on file with RCO. This applies to any subcontractors.

Project Metrics

Please fill in metrics for your project as best understood at this time.

Project Metric	Value
Floodplain acres restored and/or protected	
Miles of instream habitat restored	
Linear feet of geomorphic impediments removed	
Linear feet of side channels restored	
Acres of invasive species treated	
Acres of riparian plantings	
Acres of amphibian habitat restored and/or protected	
Miles of habitat access improved with barrier removal	

Attachment A
Geospatial Unit Table

Ecological Region	Near-Term Priority GSUs	Mid-Term Priority GSUs	Long-Term Priority GSUs
Grays Harbor Tribs	Middle Humptulips MS GSU	Lower Humptulips MS GSU	Stevens GSU
		EF Humptulips MS GSU	Elk R GSU
		WF Humptulips MS GSU	Johns GSU
		Big (Hump) GSU	EF Hoquiam MS GSU
		Upper Wishkah MS GSU	Lower Wishkah MS GSU
		EF Wishkah MS GSU	WF Wishkah MS GSU
Olympic Mountains	Lower Satsop MS GSU	Lower MF Satsop MS GSU	Upper MF Satsop Tribs GSU
	Lower EF Satsop MS GSU	Lower WF Satsop MS GSU	Upper WF Satsop Tribs GSU
	Decker GSU	Upper WF Satsop MS GSU	Upper EF Satsop Tribs GSU
	Bingham GSU	Upper MF Satsop MS GSU	Canyon R GSU
	Dry Run GSU	Lower WF Satsop Tribs GSU	Lower Wynoochee Tribs GSU (Wedekind, Mooney Creeks)
	Upper EF Satsop MS GSU	Lower Wynoochee MS GSU	Black (Wyn) GSU
	Middle Wynoochee MS GSU		Shaffer GSU
	Middle Wynoochee Tribs GSU (Anderson and Helm Creeks)		
Black Hills	Cloquallum GSU	Mox Chehalis GSU	N/A
		Porter GSU	
		Cedar GSU	
Black River	Scatter GSU	Lower Black MS GSU	N/A
		Upper Black MS GSU	
	Beaver GSU	Lower Black Tribs GSU (Mima Creek)	
		Dempsey GSU	
		Waddell GSU	
Central Lowlands	N/A	Lincoln GSU	Garrard GSU
		Bunker GSU	Rock (CL) GSU
			Delzene GSU
			Independence GSU
Cascade Mountains	Lower Skookumchuck MS GSU	Hanaford GSU	Skookumchuck Tribs GSU (Johnson and Thompson Creeks)
	Lower Newaukum MS GSU	SF Newaukum Tribs GSU (Kearney, Beaver, Bernier Creeks	
	SF Newaukum MS GSU	Stearns GSU	
	NF Newaukum MS GSU		
Willapa Hills	Elk Cr GSU	Thrash GSU	Lake GSU
	Chehalis Abv Crim MS GSU		
	Chehalis RB Falls to Crim MS GSU		
	EF Chehalis MS GSU		
	WF Chehalis MS GSU		
	Crim GSU		
	Big (WH) GSU		
	Rock GSU		
	Roger GSU		
	Alder GSU		
	Mack GSU		
	Stowe GSU		
	Willapa Hills Tribs GSU		
	Stillman GSU		
	Lower SF Chehalis MS GSU		
	Upper SF Chehalis MS GSU		
Estuary	Tidal Zone GSU	Grays Harbor Shoreline GSU	
Middle Chehalis	N/A	Middle Chehalis: SF to Rainbow Falls GSU	Middle Chehalis: Newaukum to SF GSU
			Middle Chehalis: Skook to Newaukum GSU
Lower Chehalis	N/A	N/A	Lower Chehalis: Satsop to Porter GSU
			Lower Chehalis: Porter to Black GSU
			Lower Chehalis: Black to Skook GSU

Note:
Blue GSUs are intended for coastal tailed frog-focused restoration, including headwater stream riparian enhancement, limited wood placement, and groundwater recharge.

Attachment B
Project Milestones

COMMON ASRP GRANT MILESTONES

WASHINGTON STATE Recreation and Conservation Office

Project milestones may change during performance period via the process of progress reports. If there are multiple worksites, please specify a completion date for each relevant milestone and worksite.

Design Projects

PRISM Milestone	Date
Applied for Permits (If applicable)	
Permits Complete	
RFP Complete/Consultant Hired (If applicable)	
Cultural Resources Complete (If design requires ground disturbance)	
Data Gathering Started	
Data Gathering Complete	
Conceptual design and design report to RCO (if not provided at application)	
Preliminary design and design report to RCO (if not provided at application)	
Final project design and design report to RCO (if it is a required project deliverable)	
Agreement End Date (no match projects must be within 18 mos. of start date.)	

Acquisition

PRISM Milestone	Date
Order Appraisal(s)	
Order Appraisal Review(s)	
Purchase and Sale Agreement Signed	
Recorded Land Survey to RCO	
Environmental Assessment Complete	
Cultural Resources Complete	
Acquisition Closing	
Recorded Acq Documents to RCO	
Noxious Weed Control Complete	
Demolition Complete	
Fencing Complete	
Agreement End Date	

Restoration

PRISM Milestone	Date
Cultural Resources Complete	
Permits Complete	
Landowner Agreement to RCO (required if project occurs on land NOT owned by sponsor)	
Bid Awarded / Contractor Hired	
Restoration Started	
Restoration Completed	
In-Water Construction Started	
In-Water Construction Complete	
Riparian/Floodplain Planting Started	
Riparian/Floodplain Planting Completed	
Invasive Species Treatment Started	
Invasive Species Treatment Completed	
As-built drawings to RCO	