

WRIA 8 Salmon Habitat Project List

Sammamish River

Monday, October 02, 2017

APPLICABLE STRATEGIES LEGEND:



Protect and restore floodplain connectivity



Protect and restore cold water sources and reduce thermal barriers to migration



Protect and restore forest cover and headwater areas



Protect and restore marine water and sediment quality, especially near commercial and industrial areas



Protect and restore functional riparian vegetation



Improve juvenile and adult survival at the Ballard Locks



Provide adequate stream flow



Improve water quality



Protect and restore channel complexity



Reduce predation on juvenile migrants and lake-rearing fry



Restore sediment processes necessary for key life stages



Integrate salmon recovery priorities into local and regional planning, regulations, and permitting (SMP, CAO, NPDES, etc.)



Restore shallow water rearing and refuge habitat



Remove (or reduce impacts of) overwater structures



Restore natural marine shoreline



Continue existing and conduct new research, monitoring, and adaptive management on key issues



Reconnect and enhance creek mouths




Remove fish passage barriers







Reconnect backshore areas and pocket estuaries










Increase awareness and support for salmon recovery


Sammamish River Mouth Wetland Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			Restore wetlands on City of Kenmore property near mouth and on island (Inglewood Wetlands).		 <p>Riparian Vegetation</p>
SR-0-0.2-LB					
Four-Year Work Plan?					
Project Location					
No					
Kenmore					
Estimated Project Costs					
Acquisition	Restoration	Total			




Lake Pointe Property Riparian and Aquatic Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			Restore shoreline of the Lake Pointe property as part of redevelopment. The 45-acre property on Lake Washington and the Sammamish River is targeted for cleanup of hydrocarbons and other pollutants.	Redevelopment is on hold, but the property owner remains in discussion with developers. Future redevelopment will require some level of site cleanup and an enhanced buffer.	 <p>Rearing & Refuge Habitat</p>
SR-0-0.3-RB					
Four-Year Work Plan?					
Project Location					
No					
Kenmore					
Estimated Project Costs					
Acquisition	Restoration	Total			




Squire's Landing Park Wetland and Stream Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-0.7-1.2-RB		Restore upland, riparian, wetland and instream habitat in the 42-acre Squire's Landing Park at the confluence of Swamp Creek and the Sammamish River, creating a diversity of floodplain and instream habitat.	Small area of riparian enhancement is underway near mouth of Swamp Creek. City of Kenmore has an interest in developing park amenities.	 Riparian Vegetation  Floodplain Connectivity  Thermal Stress
Four-Year Work Plan?	Project Location				
Yes	Kenmore				
Estimated Project Costs					
Acquisition	Restoration	Total			




Acquire Undeveloped Property Adjacent to Squire's Landing			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-1.2-RB		Purchase parcel to the east of Squire's Landing Park for inclusion in park and for restoration.		 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	Kenmore				
Estimated Project Costs					
Acquisition	Restoration	Total			



Wayne Sammamish Acquisition and Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-1.9-2.5-BB		Acquire the Wayne Golf Course in the City of Bothell. Includes over 4,500 linear feet of river frontage (counting both banks) and approximately 90 acres. Once protected, restore both banks of the Sammamish and lower Waynita Creek.	Some funding for acquisition already secured, and the goal is to complete acquisition by end of 2017. Money secured for a full site master plan, and restoration remains several years away.	 Floodplain Connectivity  Riparian Vegetation  Thermal Stress
Four-Year Work Plan?	Project Location				
Yes	Bothell				
Estimated Project Costs					
Acquisition	Restoration	Total			
11000000					
Enhance Tributary Confluence of Waynita Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-2.4-LB		Project should include as appropriate: improved fish passage, riparian restoration, placement of large wood, and creation of cool-water refuge pools.	Restoration of the Waynita Creek confluence may be incorporated into restoration implemented as part of the larger Wayne Golf Course Back Nine effort.	 Thermal Stress  Riparian Vegetation  Channel Complexity
Four-Year Work Plan?	Project Location				
No	Bothell				
Estimated Project Costs					
Acquisition	Restoration	Total			



Norway Hills Enhancement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-2.5-2.7-LB		Evaluate creation of pools in the Norway Hill area of the river where some groundwater sources are piped to the river as part of the stormwater system. Determine if groundwater inflows at Norway Hill are in need of special protection.		 Thermal Stress
Four-Year Work Plan?	Project Location				
No	Bothell				
Estimated Project Costs					
Acquisition	Restoration	Total			



Wetland Restoration on Right Bank in Bothell			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies	
Project Number	SR-3-3.1-RB		Restore historic wetlands on right bank downstream of 102nd Avenue bridge to be seasonally inundated wetlands with small channels connecting them to the river.	Property is city-owned.	 Thermal Stress	 Riparian Vegetation
Four-Year Work Plan?	Project Location					
No	Bothell					
Estimated Project Costs						
Acquisition	Restoration	Total				
					 Channel Complexity	


Enhance Tributary Confluence of Former Horse Creek Channel			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-3.2-RB		Horse Creek was rerouted to the west as part of the Bothell Landing redevelopment, but the former channel still receives cold water flow. Evaluate the potential for improving fish access, riparian restoration, placement of large wood, and creation of cool-water refuge pools.		 Thermal Stress  Riparian Vegetation  Channel Complexity
Four-Year Work Plan?	Project Location				
No	Bothell				
Estimated Project Costs					
Acquisition	Restoration	Total			



Enhance Confluence of Tributary 0069			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-4.2-LB		Project should include as appropriate: improved fish passage, riparian restoration, placement of large wood, and creation of cool-water refuge pools.		 Thermal Stress  Riparian Vegetation  Channel Complexity
Four-Year Work Plan?	Project Location				
No	Bothell				
Estimated Project Costs					
Acquisition	Restoration	Total			



Restore and Reconnect Riparian Wetlands Adjacent to I-405/SR 522 Interchange			Description Wetland site on right bank on publicly owned land (UW and King County Parks), as described in the Sammamish River Corridor Action Plan. If wetland reconnection cannot be achieved, vegetation management should be implemented at a minimum.	Opportunities, Constraints, and other Considerations Historically there was a very large wetland near the Cascadia Campus. Feasibility of this project affected by WSDOT concerns, and the Sammamish River Trail and levees block connection to the river.	Applicable Strategies	
Project Number	SR-4.4-4.5-RB					
Four-Year Work Plan?	Project Location				Channel Complexity	Riparian Vegetation
No	Bothell					
Estimated Project Costs						
Acquisition	Restoration	Total				




Left and Right Bank Restoration Upstream of Hwy 522/I-405 Interchange			Description Sammamish River Trail runs along right bank. Undeveloped parcels are owned by KC Parks. Trail setback could allow reconnection of the river to the floodplain. The left bank is part public and part private ownership. Acquiring the private parcels could also allow for floodplain restoration. At a minimum, extensive riparian restoration is a possibility.	Opportunities, Constraints, and other Considerations Left bank landowner may not be receptive to selling to a public agency, but the land was recently for sale.	Applicable Strategies	
Project Number	SR-4.7-5.1-BB					
Four-Year Work Plan?	Project Location				Floodplain Connectivity	Riparian Vegetation
No	Bothell					
Estimated Project Costs						
Acquisition	Restoration	Total				



Enhance Tributary Confluence and Lower Reach of Woodin Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-6-RB		Enhance tributary confluence and lower portion of Woodin Creek. Project should restore riparian vegetation, place large wood, and create a cool-water refuge pool.	Some restoration completed on Woodin Creek several years ago, but opportunity remains.	 Thermal Stress  Riparian Vegetation
Four-Year Work Plan?	Project Location				
Yes	Woodinville				
Estimated Project Costs					
Acquisition	Restoration	Total			



Enhance and Reconnect Riparian Wetlands Near Gold Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-6.9-RB		Enhance and reconnect riparian wetlands to river, as described in the Sammamish River Corridor Action Plan, at the historic wetland and meander area near Gold Creek.	Most of the land in this area is in the Agricultural Production District, and while not all is currently farmed, restoration should include considerations for current or future farming.	 Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Enhance Tributary Confluence and Lower Reach of Gold Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-6.95-RB		Enhance tributary confluence and lower portion of Gold Creek. Project should restore riparian vegetation, place large wood, and create a cool-water refuge pool.	Some restoration completed on Gold Creek several years ago, but opportunity remains. Could explore whether juveniles make it as far as the pond near 140th PI NE, and if so, whether restoration up to or including the pond would be beneficial. Most of the land in this area is in the Agricultural Production District, and while not all is currently farmed, restoration should include considerations for current or future farming.	 Thermal Stress  Riparian Vegetation
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Reconnect Wetland 38			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-7.1-7.2-LB		Reconnect wetland 38 to the Sammamish River, which is located at the south end of the City of Woodinville on the Redhook Brewery site.	Would need to evaluate whether reconnecting wetland to the river would drain the wetland. Land owned by Red Hook Brewery.	 Riparian Vegetation  Thermal Stress
Four-Year Work Plan?	Project Location				
No	Woodinville				
Estimated Project Costs					
Acquisition	Restoration	Total			




Enhance Tributary Confluence and Lower Reach of Derby Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-7.2-RB		Enhance tributary confluence and lower portion of Derby Creek. Project should restore fish passage, restore riparian vegetation, place large wood, and create a cool-water refuge pool.	Project is in design (King County Parks).	 Thermal Stress  Riparian Vegetation  Passage Barriers
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Restore Full Meander in Reach			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-7.5-LB		Restore meander and riparian vegetation.		 Channel Complexity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Restore Small Meanders and Riparian Vegetation			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-7.7-9-INS		<p>This reach is the most straightened reach of the river. Explore restoration of small meanders (similar in scale to Redmond Riverwalk Project) and regrade. Then restore riparian vegetation.</p>	<p>Approximately 2,540 linear feet (~ 1.5 acres) of riparian restoration completed as of April 2014. Of this, around 440 feet completed by the Snoqualmie Tribe. The Tribe is interested in restoring the small tribs described in N346, which would connect to the riparian work described here.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Channel Complexity</p> </div> <div style="text-align: center;">  <p>Riparian Vegetation</p> </div> </div>
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Enhance Tributary Confluence with Sammamish River at Tributary 0095			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-8-LB		<p>Improve connection of tributary to the river, enhance the mouth to create cool water refugia, and restore riparian vegetation.</p>		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Thermal Stress</p> </div> <div style="text-align: center;">  <p>Riparian Vegetation</p> </div> </div>
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Restore Historic Side Channel in Reach 4			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-9.1-9.2-LB		Reconnect historic side channel to river on left bank between 116th and 124th and restore riparian vegetation.	Project is in Redmond Capital Improvement Strategy and will be implemented in concert with Sammamish Park redevelopment.	 Channel Complexity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			



Connect Left Bank Relict Meander North of NE 116th			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-9.2-9.4-LB		Replace perched fish barrier culvert at River confluence with lower, oversized culvert to re-establish connection with River, provide off-channel habitat, plant riparian vegetation. This project also includes relocating a small stream into the oxbow upstream.		 Channel Complexity  Passage Barriers  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			



Restoration from Valley Estates Creek to NE 116th Street			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-9.5-10.2-BB		<p>Regrade and revegetate both banks and reconstruct the channel section along this reach of the Sammamish River, including 1800 lineal feet of right bank relic channel meander, and 3400 lineal feet of existing channel restoration on both banks. Install large wood to improve habitat and provide hydraulic diversity. Create vegetated benches for juvenile salmon refuge.</p>		 Channel Complexity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			




Riparian Restoration along Willows Run Golf Course Property to NE 116th			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-9.5-10.6-LB		<p>Restore riparian vegetation and remove invasive species. One-third to one-half of vegetation already restored on left bank.</p>	<p>City of Redmond restoration plans include this area.</p>	 Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			


Wetland Restoration and Side Channel Restoration on Right Bank across from Willows Run Golf Course			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-9.8-10.2-RB		Removal of non-native vegetation, excavation of side channel, and placement of large wood in channel. Enhance and reconnect riparian wetlands to river. Explore remeandering river at this location.	On Redmond's Capital Investment Strategy. Property owned by Valley Estates Homeowner's Association.	 Riparian Vegetation  Channel Complexity
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			


Wetland Restoration Feasibility Study in Willows Run Golf Course			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-9.8-10.4-LB		Explore opportunities for reconnection of wetlands/ponds with river. If found to be beneficial, develop project to reconnect to river.		 Thermal Stress  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			



Acquire Property Across from Willows Run Golf Course			Description Acquire 20-acre parcel on right bank across from Willows Run Golf Course for floodplain and wetland restoration.	Opportunities, Constraints, and other Considerations Area is being slowly developed by residential developer. May be tough to acquire, but restoration potential exists within and along Native Growth Protection Easement already in place.	Applicable Strategies	
Project Number	SR-10.1-10.5-RB					
Four-Year Work Plan?	Project Location				Floodplain Connectivity	Riparian Vegetation
No	Redmond					
Estimated Project Costs						
Acquisition	Restoration	Total				

Restoration from Willows Creek to Valley Estates Creek			Description Regrade and revegetate both banks and reconstruct the channel section along this reach of the Sammamish River, including 2000 lineal feet on the west bank and 2700 lineal feet on the east bank. Install wood to improve habitat and provide hydraulic diversity. Create vegetated benches for juvenile salmon refuge.	Opportunities, Constraints, and other Considerations	Applicable Strategies	
Project Number	SR-10.2-10.6-BB					
Four-Year Work Plan?	Project Location				Channel Complexity	Riparian Vegetation
No	Redmond					
Estimated Project Costs						
Acquisition	Restoration	Total				

Restoration from NE 90th Street to Willows Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-10.6-11.2-BB		Regrade and revegetate both banks and reconstruct the channel section along this reach of the Sammamish River, including 1800 lineal feet on the west bank, and 2400 lineal feet on the east bank. Install wood to improve habitat and provide hydraulic diversity. Create vegetated benches for juvenile salmon refuge.		 Channel Complexity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			
Leary Way to Redmond Way Buffer Enhancement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-11.8-12.1-BB		Remove invasive plants, and plant two acres of riparian with native trees and shrubs.		 Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			

Mouth of Bear Creek Thermal Refuge			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			Implement a “thermal refuge” in the Sammamish River at the mouth of Bear Creek, consistent with the recommendations of the Muckleshoot report on Sammamish River temperatures.	Scope not yet developed.	 Thermal Stress
SR-12.3-INS					
Four-Year Work Plan?					
Project Location					
No					
Redmond					
Estimated Project Costs					
Acquisition	Restoration	Total			

Riparian Revegetation between Weir and Confluence of Bear Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			Continue to enhance, maintain, and expand areas of revegetation to provide shade. Control invasive vegetation.	City of Redmond portion of project is complete.	 Riparian Vegetation
SR-12.3-13.3-BB					
Four-Year Work Plan?					
Project Location					
No					
King County					
Estimated Project Costs					
Acquisition	Restoration	Total			

Willowmoor Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	SR-12.9-13.6-LB		Restore the Sammamish transition zone 1,500 feet above and below the weir. Enhance habitat through elements such as: excavation of a side channel in the left bank floodplain, creation of pools, removal of non-native vegetation, addition of gravel substrate, connection to restored segments of Tosh Creek, wetland and groundwater connections, and re-vegetation of riparian and wetland areas. Also explore alternatives for cold water supplementation.	Currently funded through preliminary design. Preliminary design scheduled to be complete by December 2018.	 Floodplain Connectivity  Thermal Stress
Four-Year Work Plan?	Project Location				
Yes	Redmond				
Estimated Project Costs					
Acquisition	Restoration	Total			