

WRIA 8 Salmon Habitat Project List

Issaquah Creek

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



Issaquah Creek Riparian Restoration and Invasive Species Control			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-3-BB		<p>Protect and restore riparian habitat throughout Issaquah Creek. Control invasive knotweed and other invasive species on a coordinated basis in priority riparian habitats and areas upstream. After initial control is achieved, regularly monitor, detect and rapidly respond to any new infestations. Implement planting with native species in treated areas.</p>		 <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
Yes	Basinwide				
Estimated Project Costs					
Acquisition	Restoration	Total			



Lake Sammamish State Park Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R1-1-INS		<p>Vast (50 acres within shoreline buffer) and largely undisturbed area within State Park at mouth of Issaquah Creek. Former farmland with somewhat poor habitat conditions: incised channel, extensive non-native vegetation. Potential projects include stream, riparian, floodplain, lakeshore and wetland restoration on Issaquah Creek, Tibbetts Creek, and along Lake Sammamish lakeshore. Good connectivity to adjacent restoration projects upstream in City.</p>	<p>Channel is active in this area, and any park development should be conducted so as to allow for continued meandering. Some work could be done to reduce incision of creek and reconnect it with the floodplain in the uppermost portion of the site. State Parks has next phase of strategic planning underway and is interested in restoration along Issaquah Creek and the lakeshore in ways that are compatible with recreational uses of the park.</p>	 <p>Floodplain Connectivity</p>  <p>Channel Complexity</p>  <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
Yes	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			



Bush Lane Acquisition and Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R2-1-RB		<p>12.5 acres of Issaquah Creek and North Fork Issaquah Creek floodplain, located between confluence of these two streams and Darst Park (just north of I-90). Stream, riparian, and floodplain restoration on 1,200 feet of Issaquah Creek east bank. Project could include stream and riparian restoration, side channel creation, and wetland restoration. Existing habitat is poor due to residential development. Stream/buffer enhancements can be combined with other public use of upland area of site.</p>	<p>City has interest in this project, but it will need to be compatible with Costco expansion and a planned extension of 62nd Street across the site. A component of this project (or a separate project) could be relocating the North Fork away from 221st. Approximately 5.8 acres are already in public ownership.</p>	 Floodplain Connectivity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
Yes	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			
Issaquah Creek Pickering Reach Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R2-2-LB		<p>Located between SE 56th Street and I-90 along west bank of Issaquah Creek. Stream restoration along 1,800 feet of the creek within 200-foot setback. Restoration could include removal of hardened banks, floodplain restoration, side channels, and riparian enhancements. Extension of restoration work conducted by City in 1998.</p>	<p>Mountains to Sound has treated some invasives and planted portions of this area; but additional restoration opportunities remain. Private property, but City has utility easement that could allow for some restoration work.</p>	 Floodplain Connectivity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
Yes	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			


Relocation of City Parks Maintenance Facility and Restoration of Site			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R5-1-RB		<p>Property is at confluence of Issaquah Creek and East Fork Issaquah Creek, adjacent to Confluence Park. Relocation of the maintenance facility and restoration of the stream and buffer offers excellent opportunity to restore important sections of these two streams and build on previous restoration efforts.</p>	<p>City of Issaquah has identified a potential replacement site for the maintenance facility, but funding is needed to advance the project forward. This project is in the City Parks Strategic Plan.</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	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			


Issaquah Creek Wildwood Acquisition and Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R6-1-LB		<p>Located Between Wildwood Trail and Issaquah Creek along Wildwood Blvd Trail to hatchery intake. Private and City ownership. Mature shade canopy and native vegetation being lost due to English Ivy and other weed infestation. If site is developable, pursue a restoration easement with private property owners to allow for restoration focused on retaining the existing shade canopy through riparian vegetation enhancements on top of slope of west bank.</p>	<p>Some knotweed removal has occurred. The site has steep slopes and is covered with ivy, which makes restoration potentially very expensive. Site is owned by a partnership with the intent to develop the area; however, there is disagreement about whether the site is actually developable.</p>	<div style="text-align: center;">  <p>Riparian Vegetation</p> </div>
Four-Year Work Plan?	Project Location				
No	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			



"Guano Acres" Ingi Johnson Park Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R6-2-RB		Ingi Johnson Park is immediately downstream of the recently-removed fish hatchery intake dam. Some restoration was implemented through that project, but opportunities remain for floodplain restoration, wetland enhancement, side channels, and riparian enhancement.	In the Watershed Company's 2006 restoration report, this site scored high for potential benefit and feasibility.	 Floodplain Connectivity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			


South Issaquah Creek Greenway Acquisitions			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R7-1-BB		Large parcels adjacent to the South Issaquah Creek Greenway offer additional potential for open space preservation, riparian and wetland enhancements, instream restoration, and side channels. Includes the Mohl Property, located immediately downstream of Sycamore Drive on west bank; and other properties. Explore whether SE Sycamore Lane can be abandoned and removed as part of additional restoration.	The City of Issaquah purchased several properties, including the Fowler and Steiglitz properties, totalling 5.18 acres. Lots of restoration occurred here from 2000 – 2005 (wood placements and side channels). The area includes wetlands and extensive reed canarygrass.	 Riparian Vegetation  Channel Complexity
Four-Year Work Plan?	Project Location				
No	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			


Squak Valley Park South			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R8-1-RB		<p>Located between the city limits at SE 104th St and Squak Valley Park. Install log complexes in the main channel and along its banks to encourage pool formation, provide protective cover, and improve habitat diversity and quality. Restore the floodplain and side channel to increase edge habitat. Implement wetland and riparian enhancements. Pursue acquisition or of lone remaining privately held parcel to enable full scale restoration on the right bank.</p>	<p>Two of the three parcels targeted by this project are in city ownership.</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	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			


Remove Bank Hardening at Issaquah Creek & Fifteenmile Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R9-1-RB		<p>Remove bank armoring at confluence of Issaquah Creek and Fifteenmile Creek.</p>	<p>Sites include expensive homes that would need to be protected.</p>	<div style="text-align: center;">  <p>Channel Complexity</p> </div>
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Remove Bank Hardening at Issaquah and McDonald Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Remove bank armoring at the Issaquah Creek confluence with McDonald Creek.	Sites include expensive homes that would need to be protected.	 <p>Channel Complexity</p>
Project Number	IC-R10-1-BB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Log Cabin Natural Area Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Remove non-native plants and plant with native vegetation. Potential for removal of bank hardening in upper portion of property.	Work is ongoing, being led by King County Parks. Have removed approximately 15 acres of blackberries and replanted this area with approximately 10,000 plants over the past 15 years. Revegetation is mostly complete; will add about 500 trees in fall of 2017 to the pasture area.	 <p>Channel Complexity</p>  <p>Riparian Vegetation</p>
Project Number	IC-R11-1-BB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Remove Bank Hardening in Four Creek Subdivision			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R11-2-BB		Remove bank hardening in subdivision located just upstream of McDonald Creek confluence, between 231st Place SE and 229th Drive SE.	Expensive homes would need to be protected.	 Channel Complexity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Carey/Holder/Issaquah Creek Confluence Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R12-1-BB		On the 120 acre site under a King County conservation easement, restore riparian vegetation, add livestock fencing, and implement other best management practices for livestock.	Some fencing has been built. Restoration work remains.	 Riparian Vegetation
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Fish Passage at 276th Avenue SE Crossing - Carey Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Partial fish passage barrier. Remove or replace culvert to improve fish passage.					 <p>Passage Barriers</p>
Project Number	IC-R13-1-INS				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Fish Passage Improvements at Highway 18 - Holder Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Install a bridge at the Highway 18 crossing to eliminate a partial fish passage barrier.				WSDOT culvert subject to culvert injunction. Not on WSDOT's near-term action plan.	 <p>Passage Barriers</p>
Project Number	IC-R13-2-INS				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Carey and Holder Creek Headwaters Protection			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-R14-1-BB		Protect existing natural flow regime in the headwaters areas of Carey and Holder creeks, which are in the Tiger Mountain State Forest and Taylor Mountain Forest vicinity, by acquiring forest property, development rights/conservation easements. Also, provide enhanced incentives to retain and plant forest area environments.	Through the State Trust Land Transfer program, some state DNR parcels are being transferred to King County Parks or are proposed for transfer.	 Forest Cover
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Fish Passage Improvement in Fifteenmile Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-4-INS		Improve fish passage at RM 1.5 where there is a barrier which consists of a bedrock cascade with an abandoned water supply dam on top.	WDFW cites marginal benefits due to impassable falls a short distance upstream. Also, height is 7 meters.	 Forest Cover
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Increase Buffers and Restore Riparian Areas - North Fork Issaquah Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Increase stream buffers and restore riparian vegetation along North Fork Issaquah Creek.	The portion of the North Fork that goes through the lower portion of Lakeside Property has highly impacted buffers and non-conforming uses in close proximity to the stream.	 Riparian Vegetation
Project Number	IC-5-BB				
Four-Year Work Plan?	Project Location				
No	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			

Fish Passage Improvement near Front Street - North Fork Issaquah Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Improve fish passage at the downstream end of wetland where a culvert is a partial barrier to fish passage at low water and near the Front St. interchange by reconfiguring the culverts under the road.	These culverts are undersized and have persistent sedimentation problems. New design should direct channel directly into the wetland rather than cross under the road an additional two times as it currently is built. Per WDFW fish passage database, this remains a partial fish passage barrier.	 Passage Barriers
Project Number	IC-6-INS				
Four-Year Work Plan?	Project Location				
No	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			

Wetland Revegetation at Front Street / I-90 Interchange - North Fork Issaquah Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-7-BB		Plant trees in the large wetland near the Front St. interchange to shade the creek as it flows through this section.	This is WSDOT right-of-way; not sure what agency/entity takes lead on this effort.	 <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
No	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			

Reduce Sedimentation Problems from Gravel Plant - North Fork Issaquah Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	IC-8-LB		Explore opportunities for reducing sedimentation problems related to the gravel plant. Possible to implement source control and also push for larger riparian buffers through the gravel plant property.	City will need to identify specific actions to deal with impacts of gravel plant.	 <p>Sediment Processes</p>
Four-Year Work Plan?	Project Location				
No	Issaquah				
Estimated Project Costs					
Acquisition	Restoration	Total			

North Fork Issaquah Creek Headwater Wetlands Protection			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			Protect headwater wetlands in this basin.	An important issue in the North Fork watershed is the impact of impervious surfaces on base flows and the lack of water in the wetlands.	 Forest Cover
IC-1-BB					
Four-Year Work Plan?					
Project Location					
No					
Issaquah					
Estimated Project Costs					
Acquisition	Restoration	Total			
East Fork Issaquah Creek Restoration Assessment			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			The East Fork provides valuable habitat but is highly urbanized in the lower reaches and passes under I-90 numerous times. Investigate potential restoration project opportunities benefitting Chinook.		 Channel Complexity
IC-2-BB					
Four-Year Work Plan?					
Project Location					
No					
Issaquah					
Estimated Project Costs					
Acquisition	Restoration	Total			