

WRIA 8 Salmon Habitat Project List

Little Bear Creek

Wednesday, August 30, 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



Little Bear Creek Knotweed Control and Reforestation			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-1-BB		Control knotweed and other priority invasive plant species throughout the Little Bear Creek basin and restore riparian vegetation.	Being led by Mountains to Sound Greenway Trust in Woodinville and multiple partners in Snohomish County.	 <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
Yes	Basinwide				
Estimated Project Costs					
Acquisition	Restoration	Total			
134th Avenue Fish Passage Improvement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-R2-1-INS		At 134th Avenue NE, replace three cement pipes that are broken and pose a partial low flow blockage.	Adopt A Stream began initial project development in partnership with Woodinville, but funding couldn't be secured for an access bridge to replace the culverts.	 <p>Passage Barriers</p>
Four-Year Work Plan?	Project Location				
Yes	Woodinville				
Estimated Project Costs					
Acquisition	Restoration	Total			



Add Large Wood to Downstream End of Reach 2			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Add large wood to channel to enhance instream conditions in lower portion of Reach 2.		 <p>Channel Complexity</p>
Project Number	LBC-R2-2-INS				
Four-Year Work Plan?	Project Location				
No	Woodinville				
Estimated Project Costs					
Acquisition	Restoration	Total			


Restore Public Land in Reach 2			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Parcel No. 9517100250 just east of 134th Avenue NE (owned by the City) and Parcel No. 9517100220 just west of 134th Avenue NE (owned by WSDOT). Restore riparian area and assess other restoration opportunities.		 <p>Riparian Vegetation</p>
Project Number	LBC-R2-3-RB				
Four-Year Work Plan?	Project Location				
No	Woodinville				
Estimated Project Costs					
Acquisition	Restoration	Total			


NE 195th Street Fish Passage Improvement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Replace degraded vortex weir at NE 195th Street, which is a low flow barrier.		 Passage Barriers
Project Number	LBC-R3-1-INS				
Four-Year Work Plan?	Project Location				
No	Woodinville				
Estimated Project Costs					
Acquisition	Restoration	Total			


Protect Riparian Wetland Adjacent to Industrial Park			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Protect riparian wetland adjacent to industrial park, east of 58th, through conservation easement or acquisition.		 Riparian Vegetation
Project Number	LBC-R4-1-BB				
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Creek Restoration at Alpine Rockeries			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-R5-1-INS		Snohomish County project to work with Alpine Rockeries to restore riparian vegetation, add large wood, and potentially reconfigure stream channel on 800 ft. of stream.		 Channel Complexity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Reach 5 Acquisition and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-R5-2-LB		At upstream end of Reach 5, buyout frequently flooded home, add large wood and restore riparian vegetation.	Parcel is located just inside the King County boundary, downstream of the Howell Creek confluence.	 Channel Complexity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Woodinville				
Estimated Project Costs					
Acquisition	Restoration	Total			


Floodplain Restoration Adjacent to SR 9			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-R7-1-RB		Acquire conservation easements on property where Little Bear Creek is close to State Route 9 and restore floodplain and remainder creek.	Some recent work completed here by WSDOT on a parcel they own.	 <p>Floodplain Connectivity</p>
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Remove Fish Passage Barrier Low in Cutthroat Creek			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-R7-2-INS		Improve fish passage at a privately owned barrier in lower Cutthroat Creek. May benefit juvenile Chinook (although presence not documented).		 <p>Passage Barriers</p>
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Protect Undeveloped Forested Parcels in Reach 7			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-R7-3-LB		Protect undeveloped, forested parcels in Reach 7, west of Little Bear Creek (from 229th to Cutthroat Creek confluence). Area includes a large wetland complex and groundwater sources.		 Forest Cover
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Culvert Replacement at SR 524			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	LBC-R9-1-INS		Replace failing culvert of creosote logs under SR 524.		  Water Quality Passage Barriers
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Forest Cover Protection along Maltby Road			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Maltby Road property, five parcels totaling 35 acres of mature second-growth upland forest, without critical areas protection.			<p>Maltby Road property, five parcels totaling 35 acres of mature second-growth upland forest, without critical areas protection.</p>	<p>32 of 35 acres acquired.</p>	 Forest Cover
Project Number	LBC-R9-2-BB				
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Forest Cover and Wetland Protection			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Protect large, undeveloped forested wetland on both Little Bear and Great Dane Creeks. Approximately 100 acres including 10 parcels.			<p>Protect large, undeveloped forested wetland on both Little Bear and Great Dane Creeks. Approximately 100 acres including 10 parcels.</p>	<p>10 acres acquired</p>	 Forest Cover
Project Number	LBC-R10-1-BB				
Four-Year Work Plan?	Project Location				
Yes	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Improve Fish Passage at 51st Avenue SE			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Improve fish passage at two partial fish passage barriers.		 <p>Passage Barriers</p>
Project Number	LBC-R10-2-INS				
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Protect Riparian Wetlands in Reach 10			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Protect undeveloped, forested wetlands (second growth forest) in reach covering approximately 110 acres and 10 parcels owned by two landowners. Enhance with large wood.	49 acres acquired. Use Snohomish County wetland inventory to identify remaining priorities for protection.	 <p>Forest Cover</p>
Project Number	LBC-R10-3-BB				
Four-Year Work Plan?	Project Location				
Yes	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Fish Passage Improvement at 180th Street SE			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Enhance fish passage at 180th Street SE	Project is on Snohomish County's near-term radar.	 Passage Barriers
Project Number	LBC-R11-1-INS				
Four-Year Work Plan?	Project Location				
No	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Little Bear Creek Headwaters Forest Cover Protection			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Protect forested, headwater wetlands from corner of 51st and 180th upstream approximately 2 miles along Little Bear Creek through conservation easements and acquisition. Includes three wetland complexes totaling over 200 acres: 4 parcels along 180th St. on mainstem; 7 parcels along Trout Creek from 180th to Interurban Blvd.; and 5 parcels north of 164th Street to 156th Street.	13 acres acquired	 Forest Cover
Project Number	LBC-R12-1-BB				
Four-Year Work Plan?	Project Location				
Yes	Snohomish County				
Estimated Project Costs					
Acquisition	Restoration	Total			