





























Strategic Initiative	Near Term Actions	Performance Measures	Owner/Sponsor
<p>Habitat</p> 	<p>Regulatory Effectiveness Compile and evaluate results from existing studies and those currently being completed on the effectiveness of existing federal, state, and local regulations to protect habitat. Facilitate discussions and building trust among elected officials. Develop strategies to address common issues that have been identified.</p> 	<ul style="list-style-type: none"> • Compile studies including Tribal Treaty Rights at Risk White Paper, Tulalip Regulatory Analysis, Stillaguamish Regulatory Analysis, King County CAO Effectiveness Study, and Snohomish County CAR Review. • Synthesize results based on common issues identified and highlighted as most important. • Establish LIO Sub-committee comprised of stakeholders to develop a series of recommendations. • Implement recommended actions, including enforcement. 	<p>Snoqualmie Tribe, King County, Snohomish County, Tulalip Tribes</p> 
<p>Stormwater</p> 	<p>Identify Existing Data and Prioritize Needs Water Quality: Compile water quality data from the last ten years for streams in the Snohomish and Stillaguamish basins, and evaluate available data to establish priority areas for water quality improvements. Culverts: Collect and assess existing data on public and private stream culverts in the Snohomish and Stillaguamish basins to identify high priority culverts for replacement based on multiple factors, such as fish passage. Map Systems: Inventory and map stormwater facilities and conveyance systems in the Snohomish and Stillaguamish basins, and begin to prioritize the need for public and private stormwater retrofits.</p> 	<ul style="list-style-type: none"> • Compile available stream water quality data and identify gaps in data by the end of 2014. • Analyze water quality data to identify priority areas for water quality improvements by the end of 2015. • Explore and facilitate partnership • Compile available culvert data, including past analyses of fish passage and flooding conditions, as well as upstream habitat data by the end of 2014. • Identify data gaps by the end of 2014. • Identify specific public and private priority culverts for replacement by the end of 2015. • Compile available inventory data for public and private stormwater facilities and conveyance systems and identify data gaps by the end of 2014. • Evaluate existing public and private stormwater facilities in selected areas for their potential to be retrofitted to improve water quality or downstream flows by the end of 2015. 	<p>King County and cities, Snohomish County and cities, Snohomish Conservation District</p> 











Snohomish-Stillaguamish LIO

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<p>Stormwater</p> 	<p>Agricultural Runoff</p> <p>Engage with the Agriculture Stormwater Committee of the WA State Conservation Commission to develop implementation priorities related to agricultural runoff in the Snohomish and Stillaguamish basins. Both the King Conservation District and the Snohomish Conservation District will work with agricultural producers and livestock owners to implement best management practices (BMPs) that will address water quality and habitat resource concerns.</p> 	<ul style="list-style-type: none"> • Attend and participate in drafting of priorities. • Share information with the LIO for inclusion in Action Agenda. • Assist landowners to voluntarily implement BMPs, including but not limited to: livestock fencing, off-stream and solar pumps for stock watering, nutrient management, manure bins, installation of hedgerows and riparian forest buffers, pasture management, and filter strips on their land to improve habitat and protect water quality. • Assist landowners with compliance of existing water pollution and Critical Area Regulations requirements. 	<p>Snohomish Conservation District, King Conservation District</p> 
<p>Habitat</p> 	<p>Local Habitat Protection and Restoration</p> <p>Implement effective habitat protection strategies that have been identified in local plans, recommended by stakeholders and approved by plan sponsors. Examples include:</p> <ul style="list-style-type: none"> • Acquisition by the City of Snohomish of 20 acres at the confluence of the Snohomish and Pilchuck River. • Protection strategies identified in the Snohomish Basin Protection Plan and the Port Susan MSA Conservation Action Plan. • Promote the Conservation Reserve Enhancement Program (CREP) and the Snohomish Conservation District’s “Free Trees Program”. 	<ul style="list-style-type: none"> • Identify protection actions that can be implemented within the next 2 years. • Establish conservation easements of unarmored shoreline parcels in Port Susan. • Acquire 20 acres at the confluence of the Snohomish and Pilchuck River (City of Snohomish). • Acquire parcels in the Stillaguamish Basin to advance habitat protection 10 & 50 year salmon recovery targets. • Increase the participation in CREP and other financial incentive programs. • Implement a pilot “Free Trees Program” to increase tree cover within both the Snohomish and Stillaguamish watersheds. 	<p>City of Snohomish, Snohomish County, Snohomish Conservation District, Forterra, The Nature Conservancy, King County</p> 









Snohomish-Stillaguamish LIO

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<p>Shellfish</p> 	<p>On-site Septic Systems Maintenance and Retrofit Seek stable funding and expand Snohomish Health District program to provide technical assistance to property owners with septic systems. Investigate role of failing on-site septic systems in elevating stream bacteria and nutrient loads in Kimball and Coal Creek sub basins. Explore upgrading or decommissioning septic systems and connecting to municipal sewer systems.</p> 	<ul style="list-style-type: none"> • Identify sustainable funding source(s) including no cost loans for repairs. • Educate homeowners about septic system maintenance. • Investigate extent of failing septic systems. • Repair/replace defective septic systems. • Track homeowner compliance with WDOH on-site septic system maintenance requirements. • Perform surface/groundwater monitoring and modeling as needed in Kimball and Coal Creeks following review of existing data. • Prepare a corrective action options summary report. • Estimate corrective action costs and provide cost share options (such as low interest loans to pay for retrofits or sewer line extensions and hookup fees). • Share findings and approaches with other Snoqualmie Valley cities and King Co 	<p>Snohomish County, Snohomish Health District King County, Seattle/King County Public Health, Snoqualmie Tribe</p> 
<p>Shellfish</p> 	<p>Water Quality Monitoring for Ocean Acidification Collect water quality data for temperature, salinity, dissolved oxygen, pH, CO2 (pCO2) to identify local trends.</p> 	<ul style="list-style-type: none"> • Installation, maintenance and presentation of data collected from use of Sunburst Sensor SAMI2-CO2 sensor system. • Installation and maintenance of YSI 6600 data logger 	<p>Tulalip Tribes, Stillaguamish Trib, Snohomish County</p> 
<p>Strategic Planning and Coordination</p> 	<p>Floodplain Management for Farm-Fish-Flood Snohomish County, together with project partners, will complete the development of reach scale plans for the Sustainable Lands Strategy (SLS) project and begin the implementation of those plans. The purpose of SLS is to develop tools and strategies that will generate net gains (measurable improvements) for both salmon habitat and farms in Snohomish County. Continue development of Farm-Fish-Flood Coordination Efforts (King County but similar to Snohomish County’s Sustainable Lands Strategy). Look for synergies between local and state agencies to coordinate and leverage efforts that deal with farm-fish-flood issues, such as Floodplains by Design.</p> 	<ul style="list-style-type: none"> • Complete SLS reach scale plans for four individual reaches (the lower Snohomish River, the Snohomish River Estuary, the Stillaguamish River Estuary and mainstem, and the Lower Skykomish River) by mid-year 2014. • Complete a countywide SLS plan by the end of 2014 as well as a strategy for implementing the SLS plans. • Complete the design and construction of two high priority projects listed in the SLS plans by the end of 2015. • Secure funding to help support a cost share program for farm pads or elevated farm structures 	<p>Snohomish County, Snohomish Conservation District, King County, King Conservation District, The Nature Conservancy</p> 














Snohomish-Stillaguamish LIO

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<p>Shellfish</p> 	<p>Pollution Identification and Correction (PIC) Project Snohomish County, together with project partners, will conduct a Pollution Identification and Correction (PIC) Project to identify specific sources of fecal coliform bacteria contamination in the Lower Stillaguamish sub-basin and expand to the Snohomish Basin.</p> 	<ul style="list-style-type: none"> • Complete the investigation and identification of specific sources of fecal coliform bacteria contamination in the Lower Stillaguamish sub-basin by the end of 2015. • Begin the process of correcting some of the high priority sites that are sources of fecal coliform bacteria contamination by the end of 2015. • Expand project to the Snohomish Basin  	<p>Snohomish County, Snohomish Health District, Snohomish Conservation District</p> 
<p>Strategic Planning and Coordination</p> 	<p>Fisheries/Watershed Ecology Education for Officials & Decision-Makers Sound Salmon Solutions and partners will develop a branded education curriculum and program on ecology issues necessary for salmon recovery, targeted at elected officials. This is NOT a lobbying campaign but a science-based, politically-neutral curriculum, allowing officials to make informed decisions about land use and development, with Puget Sound and salmon recovery in mind. The training will also initiate a relationship between decision-makers and organizations with the expertise to provide information and decision support. By completing the training, officials can earn a Salmon Savvy Certification; a brand they can use to demonstrate their efforts to constituents. The program would result in ongoing classes within Snohomish County and could serve as a model for other areas.</p> 	<ol style="list-style-type: none"> 1) Determine what information stakeholders, such as the Stillaguamish Watershed Council members, feel is important for elected officials (June 2014) 2) Determine what information elected officials require to make decisions that will improve the health of Puget Sound and allow salmon recovery (June 2014) 3) Develop curriculum, making use of prior efforts where applicable (Sept. 2014) 4) Review and refine curriculum with the members of the Stillaguamish Watershed Council Stewardship Committee (Dec. 2014) 5) Publicize and promote the Salmon Savvy branded curriculum with elected officials (June 2015) 6) Hold classes with officials to test curriculum & get feedback (through Dec. 2015) 7) Finalize curriculum (Dec. 2015) 8) Land use decisions are made by a measurable number of officials commanding a basic level of understanding and a decision support network (2016 and beyond) 	<p>Sound Salmon Solutions</p>
<p>Stormwater</p> 	<p>Inspections and Maintenance Provide regular inspections of public and private stormwater facilities in the Snohomish and Stillaguamish basins and identify prescriptive maintenance needs and retrofit opportunities.</p> 	<ul style="list-style-type: none"> • Secure funding by the end of 2014 for local cities that are challenged to provide regular inspections of existing stormwater facilities  Conduct stormwater facility inspections to identify prescriptive maintenance needs and retrofit opportunities by the end of 2015. 	<p>King County and cities and Snohomish County and cities, Snohomish Conservation District</p> 

Snohomish-Stillaguamish LIO

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<p>Strategic Planning and Coordination</p> 	<p>Coordinated Education and Outreach Leading to Behavior Change Snohomish County, together with local and regional partners, will develop a prioritized list of best management practices (BMPs) to promote through education and outreach programs. Implement strategies that target specific audiences and use targeted messages to achieve awareness and meet behavior change goals. Example programs to consider include:</p> <ul style="list-style-type: none"> • Forest stewardship & sustainable agriculture (Snohomish and King Conservation Districts, WSU Extension) • Riparian solutions program (Sound Salmon Solutions) • Community and youth education/outreach program (Stillaguamish Tribe) • Stormwater mgmt. training (Tulalip Tribes, Everett Community College & STORM) • Nearshore and bluff behavior change outreach (WSU Extension) • Connect upland farmers with shellfish farmers to discuss clean water for safe shellfish harvest and consumption (MRC, Snohomish Conservation District) • Develop and implement multi-party integrated water quality-themed education and behavior change programs to address shellfish protection (ECO Nets, STORM) 	<ul style="list-style-type: none"> • Secure funding to offer WSU Extension classes and services in WRIA 7. • Sound Salmon Solutions and Snohomish Conservation District (SCD) will host, attend events, provide technical consultation and site visits for streamside landowners to help improve salmon habitat. • SCD will host 25 educational workshops for agricultural landowners. • Conduct nearshore and bluff landowner workshops and distribute an updated “Guide for Shoreline Living”. • Snohomish MRC will host a meeting/field trip between upland farmers and shellfish farmers. • Conduct outreach on aquaculture at gatherings of farmers at events such as the Snohomish County Focus on Farming, Country Living Expo, and Washington State Tilth Producers Convention. • Sound Salmon Solutions, WSU Extension, Snohomish County and others will design and focus education and outreach efforts based on suspected sources that contribute and threaten commercial shellfish farm water certification as well as commercial fishery operations. • Identify the needs of participating homeowners through the PIC program as a follow-up to corrective actions 	<p>Snohomish County, King County, Sound Salmon Solutions, Snohomish Conservation District, King Conservation District, WSU Extensions in King and Snohomish Counties, STORM and ECO Nets</p> 
<p>Habitat</p> 	<p>Knotweed Control and eliminate in riparian corridors. Knotweed is aggressively invasive and often eliminates all other riparian vegetation, creating monocultures that jeopardize bank stability, future shading, and ecological processes and food webs. Program leads will be divided amongst basins: Stillaguamish—Stillaguamish Tribe and Snohomish County; Skykomish/Snohomish—Tulalip Tribes and Snohomish County; Snoqualmie—Snoqualmie Tribe and King County. Partner Leads will work to vet methods/strategies, develop control and elimination plans, and monitoring programs.</p> 	<ol style="list-style-type: none"> 1. Partners will develop methods and strategies that will work best in their areas of concern including evaluation of effectiveness of biological control. [Month 6] 2. Partners to finalize control/elimination plans [Month 9] 3. Hire additional staff, if necessary, to implement the control/elimination plans [Month 12] 4. Implement control and elimination plans, using principles of adaptive management [Months 12-48] 5. Implement monitoring programs concurrently with control/elimination actions [Months 12-60] 	<p>Snoqualmie Tribe, King County, Snohomish County, Tulalip Tribes</p> 

Snohomish-Stillaguamish LIO

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<p>Habitat</p> 	<p>Salmon/Multi-Species Recovery Plans Support priority projects as specified in Salmon Recovery Plan Chapters, 3 Year Work Plans and Basin’s 10 and 50 Year Recovery Goals/Targets.</p> <p>Identify and implement 1-3 Top Priority Habitat Restoration Projects in each basin. Establish the baseline condition of key habitats such as forest cover, wetlands, riparian areas, floodplains, nearshore, and assess trends and rate of change. Utilize analysis to predict future anticipated gains/losses based on population and build out trajectories as well as evaluating current restoration and protection benchmarks.</p> 	<ul style="list-style-type: none"> • Top habitat restoration projects that are ready to go in the next 2 years are identified. • Obtain funding for projects. • Permitting for projects. • Projects are installed or implemented successfully. • Evaluate progress toward meeting basin’s 10 and/or 50 Year Salmon Plan targets or goals. • Utilize existing landcover change analyses such as WDFW’s High Resolution Change Detection Project for baseline assessment. • Project rate of conversion and habitat loss. 	<p>Snohomish County, Stillaguamish Watershed Council, Snohomish Basin Salmon Recovery Forum, King County, Snoqualmie Valley cities</p> 
<p>Habitat</p> 	<p>Port Susan Marine Stewardship Area Conservation Establish Port Susan as a Marine Stewardship Area and implement the Conservation Action Plan.</p> 	<ul style="list-style-type: none"> • Achieve formal adoption by the Snohomish County Council. • Prevent 100% of future shoreline armoring in Port Susan. • Work to implement the high priority action steps in the Port Susan Conservation Action Plan. 	<p>Snohomish MRC</p>
<p>Stormwater</p> 	<p>Low Impact Development Provide funding for the construction of up to 5 LID projects in the Snohomish and Stillaguamish basins, including the City of Everett’s Green Stormwater Infrastructure Implementation Program.</p> 	<ul style="list-style-type: none"> • Construct 5 LID projects by the end of 2015. 	<p>King County and cities, Snohomish County and cities, Snohomish Conservation District</p> 
<p>Strategic Planning and Coordination</p> 	<p>Groundwater Study Identify the costs and potential funding sources for conducting an impairment analysis for groundwater resources in the Stillaguamish and/or Snohomish basins.</p> 	<p>Identify the costs and potential funding sources for conducting an impairment analysis for groundwater resources in the Stillaguamish and/or Snohomish basins.</p> 	<p>Snohomish County</p>