
WRIA 6 (Island) 2009 3-Year Implementation Work Plan Narrative

This three-year implementation work plan update was developed by the WRIA 6 Salmon Technical Advisory Group (TAG) and lead entity staff as a planning and tracking tool for local and regional WRIA 6 partners. This update has been discussed with the WRAC and will be shared with the Board of Island County Commissioners. For regional guidance, meetings were held with Recovery Implementation Technical Team (RITT) and Puget Sound Partnership (PSP) liaisons as the update was developed. This document reviews the WRIA 6 salmon recovery program's efforts over the past year, considers the current implementation status and strategies of our Salmon Recovery Plan, and outlines the actions and needs of the watershed over the next 3 years (2009-2011).

This version of the implementation work plan (IWP) includes many of the projects submitted in the 2008 version of the work plan as well as additional projects that have been started, or identified as important to local salmon recovery partners over the past year. Expanded project categories include additional acquisition projects; additional restoration/enhancement feasibility projects; and an expanded list of non-listed species projects. Top tier projects are those that address priority actions, in priority geographic areas, working to protect priority ecosystem processes, and priority habitats as identified in the WRIA 6 Salmon Recovery Plan.

Coordination and implementation of the WRIA 6 Salmon Recovery Plan (SRP) was hampered over the past year due to changes at the Lead Entity Coordinator position, changes in the membership on both citizen advisory (WRAC) and technical advisory (TAG) committees, as well as overall reduced participation by TAG members during this period. Watershed partners generally felt these difficulties effectively stalled much of the momentum that the program had generated since adoption of the SRP in 2005. Despite the described reduction in coordination, many of the watershed partners continued their salmon recovery efforts with some gains and accomplishments. The slow down in activities gave the TAG a chance to reflect, regroup, and consider lessons learned.

In an effort to refocus and strengthen the Salmon TAG, the TAG prepared a Guidance/Procedural document and membership list. As a subcommittee of the Island County Water Resources Advisory Committee (WRAC), the TAG's Guidance document was presented and approved by the WRAC. A TAG Task List was crafted to outline the committee's key activities for 2009 and beyond, including formation of three subcommittees: Monitoring/Evaluation & Adaptive Management, Education & Outreach, and Protection/Project Development. Formation of these subcommittees will help the watershed focus on important local and regional issues. These documents and actions address Goal #4 of our SRP through institutional strengthening and capacity building, and are crucial for the effective implementation of our Recovery Plan.

While WRIA 6 has been able to secure funding for project assessments, protection, and acquisitions, we have been less successful leveraging resources for activities listed our Goal #3 and #4. We have learned that social, political, and behavioral considerations as noted in our strategy are critical for sustainability, developing models that can be replicated, and increasing impact of our salmon recovery activities.

We look back at 2005-2007 as an initial period when we attempted to put our salmon recovery plan into action. We focused primarily on SRFB funding and gradually began to expand our resource base. We attempted to initiate activities under all four program goals although not equitably due to a number of circumstances. We look now to 2009-2011 as a period to review and address all of our program goals in a holistic approach. As we near the mid-point of our 10 year implementation plan, we intend to assess how far we have come and what modifications we need to adopt in order to meet our stated goals.

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In this 3-year update, we have been asked to review and comment on any changes in our strategy and approach to salmon recovery.

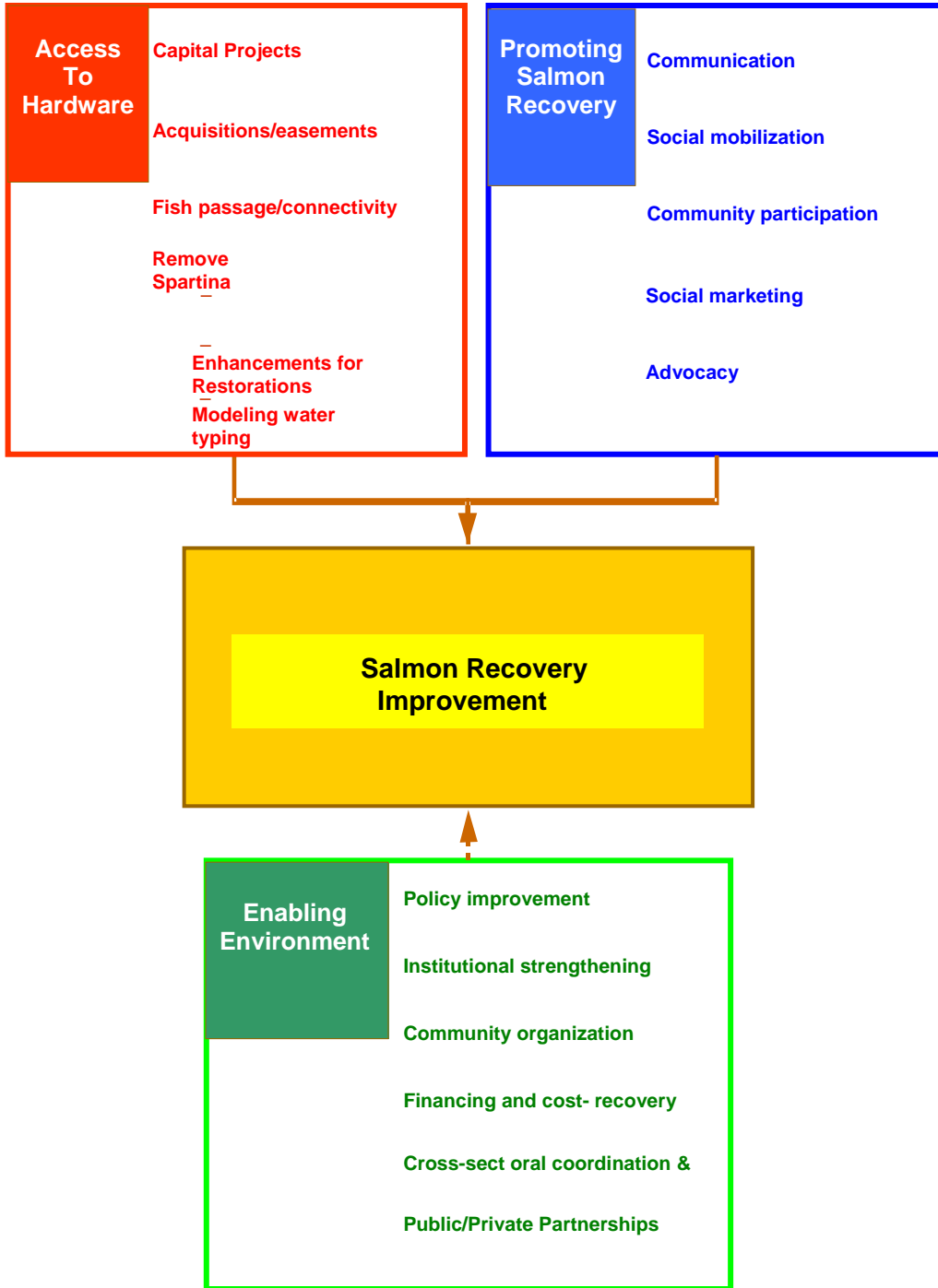
STRATEGY

The WRIA 6 Salmon Strategy has adopted an integrated and comprehensive approach to salmon recovery. Salmon recovery should be an integral part of water resources management in the WRIA. The salmon strategy employs three core elements to address salmon recovery. These are:

- Providing access to technologies and the best science
- Promotion of improved salmon recovery practices and facilities, and
- Support for long-term sustainability through the creation of an enabling environment in which salmon recovery activities can be supported and take place

In reviewing the WRIA 6 Multi-Species SRP and progress to-date in preparation for this year's update, the Salmon TAG feels that our strategy is still appropriate and will be effective if each element is fully supported and adjustments are made as new science emerges and circumstances change. One of the lessons learned during the initial period 2005-2007 was that social, political, and policy implications when not adequately addressed can cause significant negative impacts to the program.

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GOALS AND OBJECTIVES

Goal 1 – Over the long-term, achieve a net increase in salmon habitat through protection, enhancement, and restoration of naturally functioning ecosystems that support self-sustaining salmon populations and the species that depend on salmon.

Objectives

1. Inventory and prioritize nearshore and fresh-water habitats
2. Protect existing high-quality nearshore and stream habitats
3. Restore critical rearing habitats for forage fish and salmon

Efforts towards a net increase in salmon habitat have been ongoing for sometime by multiple agencies and organization in WRIA 6. Multiple high quality nearshore habitats were acquired by the Whidbey Camano Land Trust (WCLT) and the Nature Conservancy in 2008, and efforts are underway to move those properties into a protected status and/or for restoration work. The feasibility for the restoration of Ala Spit was completed in 2008 and Island County will be moving forward with restoration activities in 2009. The Skagit River System Cooperative (SRSC) is currently conducting restoration work in Crescent Harbor and has identified several key pocket estuaries as high priority critical salmon habitat that should be considered for future protection and restoration efforts.

The challenge of creating an inventory and prioritizing specific WRIA 6 habitat has been initiated through development of a Protection Prioritization Matrix; although further work is needed to refine the matrix and incorporate recent research, inventory, and monitoring information from watershed partner. In 2009 the TAG will look to further increase protection and restoration efforts, and has formed a Project Development/Protection subcommittee to accomplish and coordinate this objective. Along with helping plan acquisition and restoration activities, this committee will further develop tools to prioritize projects.

Goal 2 – Develop an understanding of habitat functions and the distribution of forage fish species, salmonids, and marine mammals in WRIA 6.

Objectives

1. Fill key ecosystem science data gaps
2. Assess and regularly update aquatic habitat attributes
3. Quantify and evaluate impacts of predation by marine mammals and other wildlife on salmonid and forage fish populations

Developing an understanding of habitat functions and the distribution of forage fish, salmonids, and marine mammals is crucial to salmon recovery in WRIA 6. Our understanding of the function and role of the nearshore and small stream habitat for salmon in WRIA 6 is still evolving. In recent years there has been an increasing amount of research being conducted by various groups and TAG partners which continues to change our understanding of how, where, when, and why salmon and forage fish utilize nearshore and small stream habitat in WRIA 6. Groups such as the SRSC, Tulalip Tribes, NOAA Fisheries, Wild Fish Conservancy (WFC), Island Marine Resource Committee (MRC), and WSU Extension/Beach Watchers have all been active in conducting research, monitoring, and analysis of these habitats. More research and monitoring are needed to both assess the current status of salmon and the results of restoration and recovery activities. Despite the wealth of new information being generated there is currently no adaptive management process in place within the TAG or recovery plan. This is a problem that

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the TAG intends to address and has formed a Monitoring/Evaluation and Adaptive Management subcommittee to begin work in 2009.

Goal 3 – Engage an informed community in identifying, protecting, enhancing, and restoring salmon-supporting ecosystem processes and habitats.

Objectives

1. Educate the community about juvenile and adult salmon distribution, ecosystem processes, and challenges through information, education, and communication activities.
2. Develop and implement a comprehensive communication strategy for internal and external communication
3. Increase community participation in, and commitment to, salmon recovery activities.

Education and outreach will be a key component to salmon recovery efforts in Island County, as we work to develop community knowledge and support regarding the importance of our local habitats in regional salmon recovery. Project sponsors including conservation districts, Whidbey Watershed Stewards, WSU Extension/Beachwaters, Wild Fish Conservancy, among others are currently supporting outreach and education activities. These activities are strengthened and increase project impact made when coordinated and implemented as part of a more systematic approach. To this end, the Salmon TAG has formed an Outreach and Education subcommittee to link, track, and coordinate our Goal 3 objectives and activities. A knowledge, actions, and practices survey should be completed soon to help guide future watershed outreach and education efforts. A website has been created to help post relevant ongoing work. This is an initial step towards developing a communication strategy for WRIA 6 recovery efforts. Island County, with guidance from the TAG, has developed a brochure to help provide information regarding the importance of the county's nearshore environment for salmon. There are numerous other examples of watershed partners providing education/outreach activities related to shoreline workshops, presentation at schools and outdoor learning center, and outreach focused in high priority geographic locations to name a few.

Goal 4 – Cultivate a supportive environment for salmon recovery by supporting policies that protect salmon habitats; advocating for adequate program staffing; encouraging cross-sector and public-private partnerships; pursuing adequate, reliable funding; and implementing effective project and program evaluations.

Objectives

1. Establish salmon recovery program policies that will cultivate public support for salmon recovery and adequate program staffing.
2. Obtain adequate reliable funding through a variety of public and private sources and use these resources cost-effectively.
3. Develop and implement a salmon recovery adaptive management plan.

As discussed above, 2008 was a challenging year for the Island County TAG and WRAC. However, the pause in activity has allowed these committees to reflect on their efforts and reevaluate their roles in salmon recovery in WRIA 6. Several new organizations were added to the TAG membership as was anticipated in the WRIA 6 Multi-Species Salmon Recovery Plan. Since then the TAG has adopted some changes to the SRFB ranking criteria, developed a draft guidance document, had consistent and increased TAG partner participation, and has formed subcommittees to more directly address specific recovery needs and work on implementing adaptive management practices. There is strong participation in salmon recovery efforts across WRIA 6 from non-profits, governments, Tribes, and other organizations. However, the amount of available resources to effectively implement salmon recovery in WRIA 6 is limited. This will

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require all the different groups and partners need to centralize resources and expertise if salmon recovery in WRIA 6 is to succeed.

Monitoring and Evaluation

The WRIA 6 Salmon Recovery Plan calls for the development of a monitoring and evaluation plan including an adaptive management component. To date a formal plan has not been completed although WRIA 6 is tracking the salmon recovery projects that are being support and undertaken in the WRIA. The TAG has reviewed some examples of adaptive management provided by the regional program and has applied adaptive management principles to program implementation as specific cases arise. For example, the TAG has revised its criteria for local ranking of SRFB proposals based on lessons learned from a recent study of an identified data gap.

Initial steps towards developing monitoring and evaluation plans that will respond to the region's request for an adaptive management plan include: The TAG has recently met and held discussions with the RITT and PSP liaisons about M&E and adaptive management; The TAG has created a subcommittee to help compile and review information and data to determine the current status of their respective focus areas.; and the TAG is planning on reviewing an adaptive management proposal presented to the MRC as a potential model that might be modified and adopted. This information will be used in developing an M&E system that will assure the tracking and analysis of program impact as relates to the stated goals in our WRIA 6 Multi-Species Salmon Recovery Plan as well as being able to monitor and evaluate SRFB funded projects in the WRIA. The TAG also recommends that these reviews and plans be used as a Mid-term Evaluation of the WRIA 6 Multi-Species Salmon Recovery Plan in 2010 to note progress and challenges and make recommendations for the next 3-year work plan.

Next Big Challenges

Developing and implementing effective monitoring and evaluation systems/plans and organizing the existing available data that our program has generated is a key priority for the watershed and the salmon recovery team. A second major challenge for this watershed is to diversify and build a stronger resource base and strengthen the capacity of the WRIA 6 salmon recovery team. It is our goal to leverage additional financial, professional and other support from the TAG partnership organizations as well as outside funding.

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The following priorities are listed in column three of the IWP matrix.

Key to Priority Tier Abbreviations

A = Action Priorities

1 = Marine Fish Distribution, Protection, Capacity Funding, Targeted Shoreline Education

2 = Restoration, Habitat Assessments, General Education

GA = Geographic Area

1 = Skagit Bay, Port Susan

2 = Saratoga Passage, SW Whidbey, NW Whidbey

3 = Central-West Whidbey

H = Habitat Priorities

1 = Mudflats, marshes, pocket estuaries

2 = Sand/gravel beaches, sandflats, instream/riparian

3 = cobble beaches, rocky shore, uplands

P = Process Priorities

1 = Shoreline Sediment Transport, Tidal Exchange, Hydrology

2 = Nutrient Cycles, Food Web, Animal/Plant Communities

3 = Upland / Coastal Stream Processes

Capital Projects-Habitat

At this time the WRIA 6 habitat goal is still quite general: "Over the long term, achieve a net increase in salmon habitat through protection, enhancement, and restoration of naturally-functioning ecosystems that support self-sustaining salmon populations and the species that depend on salmon". If further habitat losses are to be avoided, a continued commitment to long-term protection must be encouraged. In addition, where we have significant scientific knowledge and local commitment to restoration of key nearshore environments, we should pursue these projects.

Habitat Restoration

Purpose: Over the long-term, enhance and restore Chinook, sand lance, and herring habitat functions where there is supporting scientific knowledge and local commitments. Protect and enhance WRIA 6 marine food webs for all salmon that migrate through WRIA 6 marine waters. Habitat Restoration advances Goal #1 of the Island County Salmon Recovery Plan.

Strategy: Pursue restoration projects as identified through ongoing feasibility assessments and continue ongoing habitat projects. Pursue actions that coincide with ongoing regional efforts, such as ghost nets removal, creosote debris removal in key nearshore habitats, and Spartina control.

Results: Funding secured to remove riprap from Ala Spit to restore natural sediment processes critical to maintain nearshore and pocket estuary functions. Restoration of salmonid access to 200 acres of marsh at Crescent Harbor (north Saratoga Passage) to be completed in 2009. Enhancement and restoration of approximately 1,000 feet of sand and gravel beach at Cornet Bay, just west of active forage fish spawning area. Additional targeted restoration projects where landowner willingness is established. Removal of ghost nets from salmon migration corridors. Removal of creosote debris from sand lance spawning beaches and herring spawning areas continues. Continued Spartina control in juvenile salmon rearing habitats.

Magnitude/Sequence: The actions in this list are initial steps towards a net increase in Chinook, sand lance, and herring habitats in Island County. They are also vital in the building of positive examples of how restoration can occur in a manner the community supports. Marine debris and invasive species can dramatically impact nearshore ecosystem functions for salmon. All of these actions coincide with ongoing regional efforts.

Funding: Total estimated project costs are approximately \$3.2 million over the next 3-year period; approximately \$1.1 million has been secured

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Changes between 2008 and 2009: Only two projects have been added to this list. Skagit Bay Nearshore/Shorecrest Lagoon restoration has been added to this section following completed acquisition, and planned restoration of nearshore and pocket estuary. Restoration of a pocket estuary in Livingston Bay has also been added and is expected to be undertaken following acquisition of site and securing of funds. Derelict Net removal occurred in WRIA 6; it is likely that net removal efforts will be reduced in upcoming years as many nets have been removed. Funding was secured to remove riprap from Ala Spit.

Habitat - Acquisition for Future Restoration

Purpose: Provide permanent protection for nearshore habitats in areas where there is opportunity for significant restoration. Acquisition for Future Restoration advances Goal #1 of the Island County Salmon Recovery Plan.

Strategy: Acquire and/or gain conservation easements where nearshore habitats provide an opportunity to increase the amount of nearshore habitat accessible to fish, focusing on opportunities to restore high priority habitats such as pocket estuaries and marshes.

Results: Acquisition of pocket estuary, marsh, and upland Habitat in Port Susan, contiguous to over 7,000 acres of protected nearshore habitat. Acquisition of one or more habitat areas that will lead to pocket estuary and /or marsh restoration.

Magnitude/Sequence: Opportunities to purchase, or gain conservation easements on nearshore habitat with restoration potential, should be pursued where the community shows a willingness to participate.

Funding: Total estimated project costs are approximately \$2.8 million over the next 3-year period; approximately \$2.1 million has already been secured.

Changes between 2008 and 2009: Only two projects are listed in this section. This includes the continued acquisition of nearshore and tidal lands within Port Susan, in geographic priority 1, with the intention of initiating future restoration including removal of a section of dike to restore tidal influence to a pocket estuary. The Whidbey Camano Land Trust anticipates completing acquisitions for restoration on the northeast shore of Whidbey.

Habitat – Acquisition for Protection

Purpose: Provide permanent protection for high quality nearshore habitats that are at risk. Acquisition for Protection advances Goal #1 of the Island County Salmon Recovery Plan.

Strategy: Acquire and/or gain conservation easements on high quality nearshore habitats that are at risk, focusing on top priority habitats.

Results: Acquisition of pocket estuary, marsh, and upland habitat in Port Susan, contiguous to over 7,000 acres of protected nearshore habitat. Continued acquisition in Port Susan is likely to occur over the

Magnitude/Sequence: Protecting high quality habitats is critical to the overall goal of a net increase in habitat. Opportunities to purchase, or gain conservation easements on high quality nearshore habitat, should be pursued as soon as possible.

Funding: Total estimated project costs are approximately \$14.15 million over the next 3-year period. It is not clear on how much of this funding has been secured.

Changes between 2008 and 2009: The Whidbey Camano Land Trust has added nine new acquisition projects expected to begin in the next three years, with completion dates expected within the next decade. The Salmon TAG helped WCLT identify these significant nearshore projects using a protection prioritization tool being developed by the Salmon TAG.

Non-Capital Projects

Harvest Management Support

Purpose: Assess harvest practices to inform improved management of fisheries. Harvest Management Support advances Goal #2 of the Island County Salmon Recovery Plan.

Strategy: Assess terminal area incidental harvest using test fishery procedures.

Results: Improve management of terminal area fisheries.

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Magnitude/Sequence: Small scale test fishery proposed to assess specific Whidbey Basin populations.

Funding: No projects are planned to occur for Harvest Management Support at this time. A previously planned project estimated costs of \$60,000/year for a three-year period.

Changes between 2008 and 2009: The one previously planned harvest management project will not occur in 2009 as planned; it is not believed that this project is to occur in any of the next three years.

Future Habitat Project Development:

Purpose: Over the long-term, enhance and restore Chinook, sand lance, and herring habitat functions where there is supporting scientific knowledge and local willingness. Future Habitat Project Development advances Goals #2 and #3 of the Island County Salmon Recovery Plan.

Strategy: Many of the top priority nearshore restoration projects in WRIA 6, restoration of pocket estuary and marsh habitats, are constrained by existing beachfront communities. Securing landowner support for restoration projects require a detailed, site specific feasibility study. Studies are necessary to identify and alleviate community concerns, infrastructure constraints, and evaluate design alternatives.

Results: Secure landowner support, establish outreach to neighboring landowners, and evaluate project alternatives at potential project sites bordering Skagit Bay, Saratoga Passage, and West Whidbey. Develop initial project designs for sites where landowner willingness is established and site evaluation shows significant benefit for salmon.

Funding: Total estimated project costs are approximately \$480,000 over the next 3-year period; approximately \$80,000 has already been secured.

Changes between 2008 and 2009: Ala Spit restoration assessment and feasibility study completed, and used to secure funding for restoration. Assessment of 10 Skagit bay pocket estuaries completed. A feasibility and outreach project has been added to examine restoration potential at Iverson Marsh.

Habitat Protection

Purpose: Complement regulatory protections through implementation of voluntary protection strategies along targeted shoreline reaches. Protect nearshore habitat through regular monitoring of habitat quality. When possible, incorporate salmon recovery information in updates of local code. Ensure that local, state, and federal agencies manage resources on public lands in a manner that supports salmon recovery. Non-Capital Habitat Protection advances Goal #1, #3, and #4 of the Island County Salmon Recovery Plan.

Strategies: Evaluation of nearshore protection needs and outreach to landowners to provide wide range of technical assistance. Initiate strategic implementation of stewardship outreach and other protection actions in these areas. Establish a local citizen assessment team to provide early assessment in case of nearshore and marine oil spills. Work with local, state, and federal agencies to evaluate and update habitat management plans on public lands.

Results: Establish methods for nearshore protection evaluation. Where there is a demonstrated willingness, protect high-quality nearshore habitats in areas of multiple private landowners. Preparation for early assessment of oil spill response needs. Establish assurances that management action on publicly owned nearshore properties protects known Chinook, sand lance, and herring habitats.

Magnitude/Sequence: Initial integrated protection projects focus on Geographic Area 1 which covers 26 Whidbey and Camano drainage basins that flow to Skagit Bay and Port Susan (approx. 40 sq. miles) and the nearshore areas along the shoreline of these basins. These nearshore areas are some of the widest in Island County, have the highest concentration of sand lance spawning sites, are recognized by WDFW as herring spawning habitat, and are generally within 5 miles of one of the Whidbey Basin natal rivers. This area is hypothesized to be critical for juvenile Chinook from the Skagit, Snohomish, and Stillaguamish rivers. These activities will provide templates for evaluation of the rest of the WRIA 6 nearshore. Over the last several years the importance of oil spill preparedness has been highlighted throughout the Sound. Early assessment and response is critical during spill events.

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State and federal agencies own and manage significant areas of nearshore in Island County. While these agencies already address salmon needs in their management practices, the projects identified in this section are intended to broaden the relationships between agencies and local technical advisors and identify opportunities for additional protection and/or enhancement.

Funding: Total estimated project costs are approximately \$850,000 over the next 3-year period; approximately \$475,000 has already been secured

Changes between 2008 and 2009: Several projects were removed from the 3 year work plan in response to expected reduced capacity of some sponsors. One project was removed and as it has produced guidance being used to pursue Habitat Acquisition projects. A water quality restoration program was undertaken focusing on Penn Cove and Admiralty Inlet nearshore, with the project expected to be ongoing until 2012.

Watershed Plan Implementation and Coordination

Purpose: Coordinate and implement salmon recovery projects in WRIA 6. Secure basic level funding for local/regional organizations, allowing staff participation in WRIA 6 salmon recovery work. The organizations that are requesting capacity funding are keys to implementing high priority activities, but have limited capacity to participate in protection, restoration, and science planning processes and project review. Watershed Plan Implementation and Coordination advances Goal #4 of the Island County Salmon Recovery Plan.

Strategy: Maintain funding for salmon recovery staff. Work with regional organizations to secure funds for other organizations that have expertise in basic salmon recovery support (protection, restoration, and/or nearshore science). Secure funding for development and future implementation of adaptive management program for the WRIA 6 salmon recovery plan.

Results: Increased efforts around targeted salmon and nearshore focused stewardship outreach, landowner technical assistance, project review, data synthesis and distribution, development of quantifiable habitat goals, key research needs, protection strategy, and adaptive management activities as needed. Continuation of local coordination of the following: Salmon Recovery Funding Board process; the Community Salmon Fund process; coordination between local salmon recovery partners, Puget Sound regional staff, and state Department of Fish and Wildlife Lead Entity staff.

Magnitude/Sequence: The groups that are requesting funding at this time are actively participating to some extent in salmon recovery activities, but are facing limitations to their participation due to funding constraints. Given the small size and rural character of WRIA 6, capacity funding will continue to be a key issue, if the plan is to be implemented. Initial development of an adaptive management framework and project prioritization are both high priorities watershed partners are interested in developing, with some development pursued through a partnership between University of Washington School on the Environment and the Marine Resources Committee. Basic capacity funding constitutes a need for most watershed sponsors if work is to continue towards filling data gaps.

Funding: Total estimated project costs are approximately \$1.4 million over the next 3-year period; approximately \$480,000 has already been secured

Changes between 2008 and 2009: \$55,000 in capacity funding for developing capital projects was secured through the Puget Sound Acquisition and Restoration funds and made available for 12 projects to aid sponsors in project development. Many watershed partners intend to use resources for project identification, scoping, fundraising, and technical assistance. Efforts by some partners limited by funding, but need remains and funding sought. Initial steps are underway to develop recommendations needed to create a local adaptive management framework.

Outreach and Education

Purpose: Provide outreach to residents and visitors throughout WRIA 6 about the importance of nearshore habitats and opportunities to protect and restore habitats. Provide targeted outreach to residents and visitors throughout WRIA 6 about the importance of nearshore habitats to Chinook, sand lance, and herring. Landowner stewardship programs will focus first on

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communities in Geographic Area 1. Outreach and Education advances Goal #3 of the Island County Salmon Recovery Plan.

Strategy: Complete an assessment of citizen knowledge about salmon in WRIA 6 to gage the level of landowner willingness to participate in voluntary protection, enhancement, and restoration projects. Develop and implement targeted outreach strategies using existing programs, and when necessary, new materials and programs.

Results: Provide a baseline summary of citizen knowledge to salmon recovery partners and elected officials in WRIA 6. Increase community awareness of local salmon recovery issues, specifically the habitat needs of Chinook, sand lance, and herring; and links between upland and nearshore habitats. Direct shoreline landowner outreach to communities/homeowners associations in Geographic Area 1.

Magnitude/Sequence: This activity is meant to expand local knowledge about the community and make use of this to target current programs and develop complimentary programs. Outreach to local schools, and other community venues provide vital support for local salmon recovery efforts. The activities identified here are meant to target current and new programs.

Funding: Total estimated project costs are approximately \$432,000 over the next 3-year period; approximately \$50,000 has already been secured

Changes between 2008 and 2009: Targeted shoreline landowner workshops were presented in 2008, and planned for 2009 with limitations given reductions in funding. Parks and local municipalities were provided interpretive signage for posting on marine mammals through funding by NOAA marine mammal stranding grant. MRC has installed several signs at Marine Steward Areas to highlight importance of nearshore in context to flora, fauna and people, with additional signage to be installed in next few years. Capacity of sponsors to carry out all planned activities listed in plan may be limited depending on reduced funding.

In stream Flow Protection

Purpose: Maintain freshwater resource quantities sufficient to support salmon recovery and other beneficial uses. In-Stream Flow Protection advances Goal #1 and #2 of the Island County Salmon Recovery Plan.

Strategy: Assessment of coastal watershed freshwater resources to inform future project development.

Results: Increased habitat data about freshwater connectivity.

Magnitude/Sequence: This issue is a data gap for WRIA 6 related to habitat structure and function.

Funding: Total estimated project costs are approximately \$40,000 over the next 3-year period; funds have not yet secured funding for this project.

Changes between 2008 and 2009: This is the second year that watershed assessment has been on the 3-year IWP. There continues to be a minimal amount of effort focused on In-stream flow protection in Island County.

Habitat Project Monitoring

Purpose: Initiate monitoring activities to evaluate salmon recovery projects in WRIA 6. Habitat Project Monitoring advances Goal #2 of the Island County Salmon Recovery Plan.

Strategy: Ensure follow-up monitoring occurs after projects are completed.

Results: Data from this monitoring program will be used as a part of the future WRIA 6 salmon recovery adaptive management program.

Magnitude/Sequence: These activities are the initial steps towards a robust project monitoring program.

Funding: Total estimated project costs are \$127,000 over the next 3-year period; funds have not yet been secured for this project.

Changes between 2008 and 2009: Several new monitoring projects have been added to the plan. Two Forage Fish monitoring projects are planned for this year to collect pre- and post-restoration data. Mapping and monitoring of eelgrass restoration sites will occur pre- and post-restoration. Monitoring following completion of the restoration of the Crescent Harbor salt marsh

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will begin dependent on funding.

Stock Monitoring Support

These activities should be a part of a regional monitoring program

Purpose: Initial quantification of the relationships between nearshore habitat functions and Chinook life histories based on data collected over the last five years. Stock Monitoring Support advances Goal #2 of the Island County Salmon Recovery Plan.

Strategy: Pursue fisheries science collaboratively at sub-region scale, addressing the Whidbey Basin and the west side of Whidbey as distinct sections of WRIA 6. Continue marine fish distribution surveys, identify stock origins, and initiate an evaluation of marine trophic interactions as an initial step in H-integration.

Results: Initial quantification of habitat goals and qualitative statement about likely VSP responses.

Magnitude/Sequence: The funding amounts listed with these projects address the funding necessary for research in WRIA 6. Local activities should be linked to actions throughout each sub-region to provide the best results. These activities are necessary steps towards quantifiable recovery goals.

Funding: Total estimated project costs are approximately \$1.5 million over the 3-year period; approximately \$0.9 million has been secured

Changes between 2008 and 2009: Monitoring in Skagit Bay as an Intensively Monitored Basin is ongoing and funding for the juvenile Chinook origins project was secured through the 2007 SRFB/PSAR grant round. No new projects added to plan.

Research

Purpose: Increase specificity in identifying projects and habitat priorities; increase knowledge about species that support salmon in the nearshore. Research advances Goal #2 of the Island County Salmon Recovery Plan.

Strategy: Local understanding of the ways in which nearshore habitats provide functions for salmon is continuing to evolve. This section identifies two types of research: 1) hydrologic modeling for the Whidbey Basin and for Admiralty Inlet, which are considered to be key steps towards increasing our understanding of benefits to fish and the dynamics at individual sites; and 2) specific assessments on habitat components – forage fish and eelgrass.

Results: These research projects will be integral to creation of adaptive management of the salmon recovery plan.

Magnitude/Sequence: Completing these projects are critical steps to increasing our ability to best prioritize habitat projects.

Funding: Lack of updated information does not allow for accurate

Changes between 2008 and 2009: The hydrologic model project has been combined into one project description. Both forage fish projects and the eelgrass monitoring project have been added to the IWP this year. A project monitoring shorebird habitat and lifestyle survey has been added to investigate burrows and life histories.

Priority Projects and Programs Benefiting Non-Listed Species

Purpose: Protect and restore upland hydrology, water quality, and riparian habitats with value for multiple salmonid species, focusing on projects in salmonid bearing streams and projects with significant outreach components. This broad section of the work plan advances all goals of the Island County Salmon Recovery Plan.

Strategy: The actions listed in this section target upland hydrology and water quality; and instream fish passage and riparian projects. These projects represent some of the key activities for both listed and non-listed species being pursued by local salmon recovery partners.

Results: Improved upland hydrology, water quality and riparian habitats benefiting salmon in the nearshore and the health of Puget Sound.

Magnitude/Sequence: Protecting and enhancing water quality and quantity feeding the nearshore is a key priority for maintaining the health of Puget Sound.

May 2009

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Funding: Total estimated project costs are approximately \$2.6 million over the 3-year period; approximately \$1.2 million has been secured

Changes between 2008 and 2009: Most of the projects added to this list have secured funding and focus on water quality improvements. Several new projects were added given anticipated projects to occur in the Maxwellton and Glendale Watersheds. A significant flood event occurred spring of 2009 in the Glendale stream which has required restoration and stream improvements, with more significant efforts likely to be focused on the lower section of the creek. Agencies are continuing to develop initial plans for addressing this disturbance.

2009 Island County three-year Watershed Implementation Priorities										Project Planning						Project Cost and Sponsor					
Project Information and How it Relates to the Recovery Plan										Current Project Status	2009 Year 2 Scope	2009 Year 2 Cost	2010 Year 3 Scope	2010 Year 3 Cost	2011 Scope	2011 Year 3 cost	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds
Project Name	Project Description	Priority tier of project	Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting													
Capital Projects - Listed Species										<i>Projects focused on restoration, acquisition for eventual restoration, and/or acquisition for protection.</i>											
Habitat Restoration																					
Ala Spit Enhancement & Protection	protection and/or restoration of down drift processes to maintain spit habitats (based on recommendations from completed assessment)	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	remove 900 feet of riprap; restore natural nearshore processes to spit	Chinook			Feasibility Completed; Working on Permitting and final design	final design & permitting; landowner outreach	\$50,000	construction	\$265,000			2010	Island County Planning	\$315,000	\$48,000	SRFB (funded); local; Island County
Skagit Bay Nearshore/Shorecrest Lagoon Enhancement & Restoration	enhancement of nearshore processes and functions at one or more of the Skagit Basin assessment sites (Contingent on recommendations from assessment project and landowner willingness)	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	restoration of nearshore environment	Chinook			Conceptual; land acquisition near completion	design & permitting	\$150,000	construction	\$400,000			2011	Whidbey Camano Land Trust	\$550,000	\$85,000	SRFB; local; others sought
Cornet Bay Enhancement/Restoration	enhancement of eelgrass, marshland and forage fish habitat at Deception Pass State Park nearshore in Cornet Bay	A = 2 GA = 1 H = 2 P = 2	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore	Restore 2500 feet of nearshore	Chinook			Feasibility Assessment nearing completion	feasibility assessment, design, permitting	\$175,000	permitting and segment construction	\$150,000	permitting and segment construction	\$150,000	2012	IC Marine Resources Committee; State Parks, TNC, NFWF, NOAA	\$475,000	\$319,000	partially funded: Marine Conservation Fund, State Parks, Oak Harbor, NW Straits Commission
Crescent Harbor Marsh Restoration - Phase 2	improvement of internal hydrologic connectivity and restoration of tidal connectivity	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	restore 200 acres of salt marsh habitat	Chinook			construction to be completed in 2009; monitoring to follow construction	construction	\$423,735					2009	Skagit River System Coop, Navy	\$423,735	\$423,735	funded: SRFB, ESRP, SRSC
West Deer Lagoon Tidal Restoration	restoration of tidal connectivity (contingent on assessment recommendations and landowner willingness)	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	complete feasibility assessment regarding restoration of pocket estuary	Chinook	Chum		Conceptual				design, permitting, construction	\$350,000		2011	Wild Fish Conservancy	\$350,000	\$0	unknown
Derelict Net Removal	identification and removal of derelict fishing nets in Island County marine waters	A = 2 GA = all H = 2,3 P = 2	Loss of Habitat	nearshore rocky coast	Estuary or Nearshore	Survey and remove derelict nets	Chinook			Ongoing	survey and removal	\$75,000	survey and removal	\$75,000			ongoing	NW Straits Foundation	\$150,000		partially funded: NW Straits Commission & Foundation, SRFB
Creosote Log & Piling Removal	identification and removal of creosote debris and derelict creosote pilings from Island County nearshore, particularly in forage fish spawning areas	A = 2 GA = all H = all P = 2	Water Quality	nearshore beaches	Estuary or Nearshore	Survey and remove creosote debris; remove 90% of creosote debris from identified areas	Chinook			Ongoing	removal of creosote debris and pilings	\$20,000	removal of creosote debris and pilings	\$20,000	removal of creosote debris and pilings	\$20,000	ongoing	WA DNR, local volunteers, MRC	\$60,000	\$60,000	partially funded: WA DNR
Spartina Removal Projects	identification and removal of Spartina anglica throughout Island County	A = 2 GA = all H = 1,2 P = 1,2	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Monitor and remove spartina	Chinook			Completed; monitoring & maintenance currently funded through 2010	monitoring & removal	\$20,000	monitoring & removal	\$20,000			ongoing	IC Weed Control, WDFW, NGOs	\$40,000	\$60,000	WDFW; Marine Conservation Fund
English Boom/Leque Island Tidal flood plain restoration	Restore tidal hydrology to dike tidal flood plains	A = 1 GA = all H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore		Chinook					\$250,000		\$250,000				WDFW	\$500,000		SRFB/PSP/ALEA
Livingston Bay Pocket Estuary Restoration	restoration of tidal connectivity by removing section of dike (contingent on assessment recommendations and landowner willingness)	A = 1 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Restoration of 10 acre pocket estuary through removal of 100 foot section of dike	Chinook			Conceptual; dependent on acquisition	design & permitting			final design & permitting, construction	\$110,000	\$304,000	2011	The Nature Conservancy	\$414,000	\$62,000	SRFB; local; others sought
										Total \$ Restoration = \$3,277,735											
Habitat Acquisition for restoration																					
Skagit Bay Nearshore Protection	protection of high priority nearshore on NE Whidbey in Skagit Bay; provide potential for nearshore restoration	A = 1 GA = 1 H = 1 P = 1	Reduced Habitat Capacity	nearshore embayments	Land Protected, Acquired, or Leased	Acquire high priority nearshore	Chinook			Acquisition proceeding	acquisition	\$600,000					2009	Whidbey Camano Land Trust	\$600,000	\$100,000	funded: SRFB/PSAR, local
Livingston Bay Nearshore Acquisitions & Restoration	protection and future restoration of high priority nearshore in N Port Susan	A = 1 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	restoration to follow acquisition	Chinook			Acquisition proceeding	acquire property	\$2,227,000					2009	The Nature Conservancy	\$2,227,000	\$1,977,000	partially funded: SRFB, USFWS
										Total \$ Acquisition for restoration = \$2,827,000 \$2,077,000											
Habitat Acquisition for protection																					
South Camano High Priority Habitat Protection	acquisitions and conservation easements that protect intact priority nearshore processes and functions	A = 1 GA = 1 H = all P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	seven conservation easements protecting nearshore habitat and processes	Chinook			Conceptual	top priority nearshore acquisitions (1 conservation easement)	\$30,000	top priority nearshore acquisitions (3 conser. Easements)	\$550,000	top priority nearshore acquisitions (3 conser. Easements)	\$750,000	2015	Whidbey Camano Land Trust	\$1,330,000	\$200,000	Unknown

2009 Island County three-year Watershed Implementation Priorities										Project Planning						Project Cost and Sponsor					
Project Information and How it Relates to the Recovery Plan										Current Project Status	2009	2009	2010	2010	2011	2011	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds
Project Name	Project Description	Priority tier of project	Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting	Year 2 Scope		Year 2 Cost	Year 3 Scope	Year 3 Cost	Year 3 Scope	Year 3 Cost						
Strawberry Point High Priority Habitat Protection	acquisitions and conservation easements that protect intact priority nearshore processes and functions	A = 1 GA = 1 H = all P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	four conservation easements protecting nearshore habitat and processes	Chinook		Conceptual	top priority nearshore acquisitions (1 conservation easement)	\$50,000	top priority nearshore acquisitions (1 conser. Easements)	\$600,000	top priority nearshore acquisitions (2 conser. Easements)	\$725,000	2014	Whidbey Camano Land Trust	\$1,375,000	\$200,000	Unknown	
Cultus Bay High Priority Habitat Protection	acquisitions and conservation easements that protect intact top priority nearshore processes and functions	A = 1 GA = 2 H = all P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	three conservation easements protecting nearshore habitat and processes	Chinook		Conceptual	top priority nearshore acquisitions (1 conservation easement)	\$20,000	top priority nearshore acquisitions (1 conser. Easements)	\$150,000	top priority nearshore acquisitions (1 conser. Easements)	\$1,200,000	2014	Whidbey Camano Land Trust	\$1,370,000	\$200,000	Unknown	
Kristoferson Creek High Priority Habitat Protection	acquisitions and conservation easements that protect intact top priority watershed processes and functions	A = 1 GA = 1 H = 2 P = all	Loss of Habitat	riparian	Land Protected, Acquired, or Leased	six conservation easements protecting watershed habitat and processes	Chinook		Conceptual	top priority drainage acquisitions (1 conservation easement)	\$10,000	top priority drainage acquisitions (2 conservation easement)	\$220,000	top priority drainage acquisitions (3 conservation easement)	\$600,000	2015	Whidbey Camano Land Trust	\$830,000	\$125,000	Unknown	
Triangle Cove/Barnum Point High Priority Habitat Protection	acquisitions and conservation easements that protect intact top priority nearshore processes and functions	A = 1 GA = 1 H = 1 P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	one conservation easements protecting nearshore habitat and processes	Chinook		Conceptual				top priority nearshore acquisitions (1 conser. Easements)	\$750,000		2020	Whidbey Camano Land Trust	\$750,000	\$112,500	Unknown	
Holmes Harbor High Priority Habitat Protection	acquisitions and conservation easements that protect intact top priority nearshore processes and functions	A = 1 GA = 2 H = all P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	three conservation easements protecting nearshore habitat and processes	Chinook		Conceptual	top priority nearshore acquisitions (1 conservation easement)	\$60,000	top priority nearshore acquisitions (1 conservation easement)	\$75,000	top priority nearshore acquisitions (1 conservation easement)	\$65,000	2020	Whidbey Camano Land Trust	\$200,000	\$30,000	Unknown	
Useless Bay High Priority Habitat Protection	acquisitions and conservation easements that protect intact priority nearshore processes and functions	A = 1 GA = 2 H = all P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	three conservation easements protecting nearshore habitat and processes	Chinook		Conceptual				top priority nearshore acquisitions (2 conservation easement)	\$50,000	top priority nearshore acquisitions (1 conservation easement)	\$1,700,000	2018	Whidbey Camano Land Trust	\$1,750,000	\$275,000	Unknown
Livingston Bay High Priority Habitat Protection	acquisitions and conservation easements that protect intact top priority nearshore processes and functions	A = 1 GA = 1 H = all P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	conservation easements protecting nearshore habitat and processes	Chinook		Conceptual				top priority nearshore acquisitions (2 conservation easement)	\$50,000	top priority nearshore acquisitions (conservation easements)	\$1,500,000	2016	Whidbey Camano Land Trust	\$1,550,000	\$225,000	Unknown
Ebey's Reserve High Priority Habitat Protection	acquisitions that protect intact top priority nearshore processes and functions	A = 1 GA = 2 & 3 H = all P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	conservation easements protecting nearshore habitat and processes	Chinook		Conceptual				top priority nearshore acquisitions	\$5,000,000		2012	Whidbey Camano Land Trust	\$5,000,000	\$750,000	Unknown	
										Total \$ Acquisition for Protection =						\$14,155,000	\$2,117,500				
Hatchery	Projects focused on hatchery program facilities and maintenance to rear fish, maintain fish health and diversity, and minimize domestication in fish of naturally spawning broodstocks.																				
Other	NONE																				
Total Capital Need:																\$20,259,735	\$4,194,500				
Non-Capital Programs - Listed Species																					
Harvest Management Support	Activities related to management of Chinook as they transit various management jurisdictions, and the design and implementation of harvest management actions intended to maintain and restore the diversity and productivity of Chinook populations.																				
NONE																					
Future Habitat Project Development	Projects designed to assess future needs for habitat restoration projects.																				
Iverson Marsh Restoration Feasibility and Outreach	feasibility assessment, modeling, and design of marsh restoration	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	complete feasibility study and design	Chinook		Conceptual			feasibility study, design	\$160,000			2010	IC Planning, Stillaguamish Tribe, Wild Fish Conservancy	\$160,000	\$0	SRRB	
Skagit Basin Nearshore Assessment	habitat and process assessment of 10 WRIA 6 Skagit Bay pocket estuaries	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Report/assessment of Skagit Bay Pocket Estuaries	Chinook		Data collection completed; Report to be completed	Final report						2009	Skagit River System Cooperative; Skagit River System Cooperative; S. Whidbey Port	\$58,000	\$58,000	funded: SRFB, SRSC	
Possession Beach Feasibility	feasibility assessment of pocket estuary restoration options	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Feasibility study to determine restoration potential	Chinook		Feasibility study	assessment	\$40,000					2009	Skagit River System Cooperative; State Parks	\$40,000	\$40,000	funded: Swinomish & Lummi	
Lowell Point Feasibility West Deer Lagoon	feasibility assessment of pocket estuary restoration options	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Feasibility study to determine restoration potential	Chinook		Feasibility study	assessment	\$40,000					2009	Skagit River System Cooperative; State Parks	\$40,000	\$40,000	funded: Swinomish & Lummi	
Feasibility Assessment and Neighborhood Outreach	feasibility assessment of enhancing tidal connectivity and fish passage	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Prepare feasibility study and conduct public outreach	Chinook	Chum	Conceptual			assessment	\$120,000			2010	Wild Fish Conservancy	\$120,000	\$0	unknown	
Swantown Lake Feasibility Assessment and Neighborhood Outreach	feasibility assessment of enhancing tidal connectivity and fish passage	A = 2 GA = 3 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Prepare feasibility study and conduct public outreach	Chinook	Chum	Conceptual			assessment	\$120,000			2010	Swan Lake Watershed Preservation Group	\$120,000	\$0	unknown	

2009 Island County three-year Watershed Implementation Priorities										Project Planning						Project Cost and Sponsor						
Project Information and How it Relates to the Recovery Plan										Current Project Status	2009 Year 2 Scope	2009 Year 2 Cost	2010 Year 3 Scope	2010 Year 3 Cost	2011 Scope	2011 Year 3 cost	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds	
Project Name	Project Description	Priority tier of project	Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting														
										Total \$ Future Habitat Project Development =						\$480,000	\$138,000					
Habitat										Projects designed to assess, monitor, or participate in planning activities related to habitat protection. This includes monitoring.												
Strawberry Point Nearshore Protection Project	integrated protection planning, landowner outreach, & technical assistance	A = 1 GA = 1 H = all P = all	Loss of Habitat	nearshore beaches	Estuary or Nearshore	education/outreach, protection planning, and technical assistance in priority nearshore area	Chinook		Ongoing	landowner outreach & technical assistance	\$35,000					2009	Island County Planning	\$35,000	\$5,000	funded: SRFB		
North Camano Nearshore Protection Project	integrated protection planning, landowner outreach, & technical assistance	A = 1 GA = 1 H = all P = all	Loss of Habitat	nearshore beaches	Estuary or Nearshore	perform landowner outreach and assessment of priority properties	Chinook		Conceptual	protection plan, landowner outreach and technical assistance		\$75,000		landowner outreach and fundraising for acquisitions	\$75,000	2011	Island County Planning	\$150,000	\$0	unknown		
Synthesis of Geographic Area 1 Nearshore Protection Projects	evaluation of lessons learned through initial integrated protection projects	A = 1 GA = 1 H = all P = all	Loss of Habitat	nearshore beaches	Estuary or Nearshore		Chinook		Conceptual	synthesis		\$25,000				2010	Island County Planning	\$25,000	\$0	unknown		
Island County Critical Areas Ordinance Update (2005-2008)	update of critical area regulations	A = 1 GA = all H = all P = all	Reduced Habitat Capacity	riparian	Riparian	Review and update F&W section of ordinance	Chinook		Planned	update of fish and wildlife section of ordinance		\$200,000				2010	Island County Planning	\$200,000	\$200,000	funded: county		
Island County Owned Nearshore Protection Project	review & update management plans for county owned lands in and adjacent to the nearshore	A = 1 GA = all H = all P = all	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore		Chinook		Conceptual	ID of properties, draft management plan	\$35,000		finalize plan & evaluation	\$70,000	ongoing	Island County Planning	\$105,000	\$105,000	unknown			
WRIA 6 State Owned Nearshore Protection Project	review & evaluate management plans for state owned lands in and adjacent to the nearshore	A = 1 GA = all H = all P = all	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore		Chinook		Conceptual	review/ evaluation of state ownership & discussion w/ agencies		\$50,000				2010	Island County Planning; State Agencies	\$50,000	\$0	unknown		
WRIA 6 Federally Owned Nearshore Protection Project	review & evaluate management plans for federally owned lands in and adjacent to the nearshore	A = 1 GA = all H = all P = all	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore		Chinook		Conceptual	review/ evaluation of state ownership & discussion w/ agency		\$50,000				2010	Island County Planning, Navy	\$50,000	\$0	unknown		
Penn Cove and Admiralty Inlet Nearshore Water Quality Restoration	integrated protection planning, technical assistance and nearshore water quality remediation implementation	A = 1 GA = all H = all P = all	landowner permission	nearshore beaches	Estuary or Nearshore		Chinook	bi-valves	Implemented	nearshore water quality monitoring, remediation design and implementation of pilot-project	\$75,000		post-installation monitoring and landscape scale design	\$55,000	full scale	\$111,000	2012	Island County MRC, Island County Watershed Implementation Planning Unit, Town of Coupeville, WA DOE	\$241,000	\$125,000	WA DOE	
										Total \$ Non-Cap Habitat Protection =						\$856,000	\$435,000					
Watershed Plan Implementation & Coordination										Projects designed to increase the capacity of watersheds to implement the recovery plan. T												
Protection Capacity Funding	landowner outreach and fundraising for acquisitions	A=1	Human Resources	All	Estuary or Nearshore		Chinook			landowner outreach and fundraising for acquisitions		\$27,000	landowner outreach and fundraising for acquisitions	\$27,750		landowner outreach and fundraising for acquisitions	\$26,250	ongoing	Whidbey Camano Land Trust	\$81,000	\$0	unknown
Protection Capacity Funding	stewardship outreach, landowner technical assistance, and LE participation	A=1	Human Resources	All	Upland Agriculture					stewardship outreach, landowner technical assistance, and LE participation	\$50,000		stewardship outreach, landowner technical assistance, and LE participation	\$50,000		stewardship outreach, landowner technical assistance, and LE participation	\$50,000	ongoing	Whidbey and Snohomish Conservation Districts	\$150,000	\$0	unknown
Protection Capacity Funding	project review, stewardship outreach, & LE participation	A=1	Human Resources	All	Estuary or Nearshore		Chinook			project review, stewardship outreach, and LE participation	\$45,000		project review, stewardship outreach, and LE participation	\$45,000		project review, stewardship outreach, and LE participation	\$45,000	ongoing	Skagit River System Cooperative, Stillaguamish Tribe, Tulalip Tribes	\$135,000	\$0	unknown
Restoration Capacity Funding	project identification, scoping & fundraising	A=2	Human Resources	All	Estuary or Nearshore		Chinook			project id and fundraising	\$15,000		project id and fundraising	\$15,000		project id and fundraising	\$15,000	ongoing	Marine Resources Committee	\$45,000	\$0	unknown
Restoration Capacity Funding	project identification, scoping, & fundraising; landowner technical assistance	A=2	Human Resources	All	Estuary or Nearshore		Chinook			project id, scoping, & fundraising, landowner technical assistance	\$20,000		project id, scoping, & fundraising, landowner technical assistance	\$20,000		project id, scoping, & fundraising, landowner technical assistance	\$20,000	ongoing	Skagit River System Cooperative	\$60,000	\$0	unknown
Restoration Capacity Funding	project identification, scoping, & fundraising; landowner technical assistance	A=2	Human Resources	All	Estuary or Nearshore		Chinook			project id, scoping, & fundraising, landowner technical assistance	\$20,000		project id, scoping, & fundraising, landowner technical assistance	\$20,000		project id, scoping, & fundraising, landowner technical assistance	\$20,000	ongoing	Stillaguamish Tribe	\$60,000	\$0	unknown

2009 Island County three-year Watershed Implementation Priorities										Project Planning						Project Cost and Sponsor					
Project Information and How it Relates to the Recovery Plan										Current Project Status	2009	2009	2010	2010	2011	2011	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds
Project Name	Project Description	Priority tier of project	Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting	Year 2 Scope		Year 2 Cost	Year 3 Scope	Year 3 Cost	Scope	Year 3 cost						
Restoration Capacity Funding	project identification, scoping, & fundraising; landowner technical assistance	A=2	Human Resources	All	Instream		Coho	Cutthroat	project id, scoping, & fundraising, landowner technical assistance	\$5,000	project id, scoping, & fundraising, landowner technical assistance	\$5,000	project id, scoping, & fundraising, landowner technical assistance	\$5,000	ongoing	Whidbey Watershed Stewards	\$15,000	\$0	unknown		
Restoration Capacity Funding	project identification, scoping, & fundraising; landowner technical assistance	A=2	Human Resources	All	Estuary or Nearshore		Chinook		project id, scoping, & fundraising, landowner technical assistance	\$20,000	project id, scoping, & fundraising, landowner technical assistance	\$20,000	project id, scoping, & fundraising, landowner technical assistance	\$20,000	ongoing	Tulalip Tribes	\$60,000	\$0	unknown		
Nearshore Science Capacity Funding	project scoping & fundraising, data synthesis, presentations	A=1	Human Resources	All	Estuary or Nearshore		Chinook		project scoping & fundraising, data synthesis, presentations	\$37,500	project scoping & fundraising, data synthesis, presentations	\$37,500	project scoping & fundraising, data synthesis, presentations	\$37,500	ongoing	Skagit River System Cooperative	\$112,500	\$0	unknown		
Nearshore Science Capacity Funding	project scoping & fundraising, data synthesis, presentations	A=1	Human Resources	All	Estuary or Nearshore		Chinook		project scoping & fundraising, data synthesis, presentations	\$15,000	project scoping & fundraising, data synthesis, presentations	\$15,000	project scoping & fundraising, data synthesis, presentations	\$15,000	ongoing	Wild Fish Conservancy	\$45,000	\$0	unknown		
Salmon Lead Entity Coordinator	Lead Entity tasks, Recovery Chapter coordination	A=1	Human Resources	All	All		Chinook		LE operational grant tasks, etc.	\$90,000	LE operational grant tasks, etc.	\$90,000	LE operational grant tasks, etc.	\$90,000	ongoing	Island County Planning	\$270,000	\$270,000	funded: WDFW; County		
Marine Resources Committee Coordination & Staff	MRC coordination	A=1	Human Resources	All	Estuary or Nearshore				MRC coordination	\$38,000	MRC coordination	\$40,000			ongoing	WSU Extension	\$78,000	\$116,000	funded: NW Straits Commission		
Shore Stewards Coordination	program coordination - newsletters, events, technical assistance, etc.	A=1	Human Resources	All	Estuary or Nearshore		Chinook	Chum	program coordination	\$33,000	program coordination	\$31,000	prog. coord	\$31,000	ongoing	IC Marine Resources Committee, WSU Extension	\$95,000	\$93,000	IC MRC		
WRIA 6 Adaptive Management Planning and Implementation	programmatic evaluation of projects/programs and ecosystem functions	A=1	Human Resources	All	All		Chinook		implement adaptive management plan	\$60,000	implement adaptive management plan	\$60,000	implement adaptive management plan	\$60,000	ongoing	WRIA 6 TAG; Island County Planning; Marine Resources Committee	\$180,000	\$10,000	unknown		
Total \$ Watershed Plan Imple. & Coord. =																	\$1,386,500	\$489,000			
Outreach & Education										Projects designed to increase outreach and education related to watershed health and salmon recovery.											
Community Knowledge Assessment	evaluation of citizen knowledge about salmon recovery issues and willingness to participate in recovery projects	A = 1 GA = all H = all P = all	Community Engagement	All	All	Report assessing community knowledge and support			Conceptual; initial report being finalized		follow-up assessment	\$15,000			ongoing	Island County Planning	\$15,000	\$15,000	baseline funded: Ecology Integration Grant		
Shoreline Landowner Workshops	outreach in shoreline communities focusing on nearshore functions for salmon, and opportunities for protection and enhancement	A = 1 GA = all H = all P = all	Community Engagement	nearshore	Estuary or Nearshore	2-3 workshops/year	Chinook		Ongoing; 2 workshops completed in 2008 (NE Camano & NE Whidbey)	2-3 workshops	2-3 workshops	\$6,000	2-3 workshops	\$6,000	ongoing	Island County Planning; MRC/WSU Shore Steward Program	\$12,000	\$6,000	unknown; partially funded: County, MRC		
Deception Pass SP Salmon Outreach Campaign	develop educational materials and outreach events targeting park visitors	A = 1 GA = 1 H = all P = all	Community Engagement	All	All		Chinook		Conceptual		design, develop outreach materials	\$100,000	materials, activities	\$100,000	2010	State Parks	\$200,000	\$0	unknown		
Site Specific Seining Results	Annual updates summarizing results of Beach Watchers juvenile salmon seining efforts	A = 1 GA = 2 H = 1 P = all	Community Engagement	nearshore embayments	Estuary or Nearshore		Chinook		Ongoing; some sites completed	2008 results	2009 results	\$4,000	2009 results	\$4,000	ongoing	SRSC, NOAA, WSU Extension, Island County Planning	\$8,000	\$2,500	partially funded: county		
Watershed Stewardship Program	upland link with Shore Stewards program	A = 2 GA = all H = all P = all	Community Engagement	All	All	Increase participation; mobilize citizens promoting nearshore protection, increased knowledge of salmon; reduced non-point pollution	Coho	Cutthroat	conceptual	design, outreach materials	outreach materials, outreach activities	\$30,000	outreach materials, outreach activities	\$20,000	ongoing	Whidbey Watershed Stewards, WSU Extension	\$70,000	\$20,000	unknown		
Booklet: Salmon Swim Amongst Us	telling the story of salmon passing through Island County	A = 2 GA = all H = all P = all	Community Engagement	All	Estuary or Nearshore	Provide and distribute strategically	Chinook		Design completed; needs to be printed	development & printing	reprint	\$7,000	reprint	\$4,000	ongoing	Orca Network	\$11,000	\$0	unknown		
K-12 School Programs	education about watershed and nearshore functions for salmon	A = 2 GA = all H = all P = all	Community Engagement	All	All	K-5 grade classes at Maxwellton Classroom; 500-1000 students visits/yr; service-learning with middle school, high school, Scouts, and Community College students			Underway by sponsor; no outside funding obtained	develop, presentations	presentations	\$15,000	presentations	\$15,000	ongoing	Whidbey Watershed Stewards, Fisheries Enhancement Groups, WSU Extension	\$45,000	\$15,000	unknown		
Marine Stewardship Area Signage	educational signs at parks highlighting importance of marine and nearshore for salmon, forage fish and other species	A = 2 GA = all H = all P = all	Community Engagement	All	Estuary or Nearshore	MRC installed signs for Marine Steward Areas as well as related nearshore features in context to flora, fauna and peoples.			installation	install 9 signs	install 4 signs	\$22,000	install 4 signs	\$13,000	install 2 signs	\$6,000	ongoing	Marine Resources Committee & partners	\$41,000	\$20,000	NW Straits Commission

2009 Island County three-year Watershed Implementation Priorities										Project Planning						Project Cost and Sponsor					
Project Information and How it Relates to the Recovery Plan										Current Project Status	2009	2009	2010	2010	2011	2011	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds
Project Name	Project Description	Priority tier of project	Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting	Year 2 Scope		Year 2 Cost	Year 3 Scope	Year 3 Cost	Year 3 Scope	Year 3 Cost						
Sportfishing Outreach	outreach campaign to sportfish community at boat ramps	A = 1 GA = all H = all P = 2	Community Engagement	All	Estuary or Nearshore	Presentations at sportfishing events establish contact with willing landowners for restoration projects, improve public awareness, reduced non-point pollution			Conceptual	materials, outreach	\$5,000	outreach	\$5,000	outreach	\$5,000	ongoing	Island County Planning; Lead Entity staff	\$15,000	\$15,000	unknown	
Glendale Watershed Education Program	education and outreach related to Glendale Watershed	A = 2 GA = 2 H = 2 P = 3	Community Engagement	instream	Instream		Chum	Chinook	contacts made but project not yet begun	outreach	\$5,000	outreach	\$5,000	presentations	\$5,000	ongoing	Whidbey Watershed Stewards	\$15,000	\$0	unknown	
Total \$ Outreach & Education = \$432,000 \$93,500																					
Instream Flow Protection										Projects designed to protect instream flows.											
Watershed analysis	connectivity of water resources	A = 2 GA = all H = all P = all	Altered Stream Morphology/S stream Flow Patterns	instream	Instream				Ongoing;	analysis & data compilation	\$20,000	analysis & data compilation	\$20,000	analysis & data compilation	\$20,000	ongoing	Tulalip Tribes	\$60,000	\$0	unknown	
Total \$ Instream Flow Protection = \$60,000 \$0																					
Project										Projects designed to monitor habitat projects. Includes adaptive management monitoring and post-construction monitoring.											
Follow-up Monitoring Crescent Marsh Restoration	post construction monitoring of habitat and fish use	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Monitor habitat and fish use in 200 acre restored salt marsh	Chinook		Construction ongoing (see above description in Restoration); implementation following restoration	habitat and fish surveys	\$25,000	habitat and fish surveys	\$25,000	habitat and fish surveys	\$25,000	2011	Navy, University of Washington; Skagit River System Coop	\$75,000	\$0	unknown	
North Whidbey Forage Fish Monitoring	pre and post restoration monitoring of habitat and fish use	A = 2 GA = 1 H = 2 P = 2				5000 feet of shoreline monitoring			active monitoring	pre restoration monitoring	\$2,000	restoration monitoring	\$3,000	post-monitoring, \$5000		2011	Island County MRC, WDFW, WSU Extension	\$5,000			
North Whidbey Salmonid Fish Use Monitoring	pre and post restoration monitoring of habitat and fish use	A = 2 GA = 1 H = 2 P = 2				10 sites monitored			active monitoring	pre restoration monitoring	\$2,000	restoration monitoring	\$3,000	post-monitoring, \$5000		2011	Island County MRC, NOAA, WSU Extension	\$5,000			
WRIA 6 Eelgrass Mapping and Monitoring	pre and post restoration monitoring of habitat	A = 2 GA = 1 H = 2 P = 2	Loss of Habitat	nearshore	Estuary or Nearshore	24 DNR segments per year	Chinook	Forage Fish	active mapping and analysis	continued mapping and data analysis	\$13,700	continued mapping and data analysis	\$14,100	continued mapping and data analysis	\$14,100	2015	Island County MRC, WA DNR, WA Friday Harbor Labs, Extension	\$41,900	\$21,000	unknown	
Total \$ Project Monitoring = \$126,900 \$21,000																					
Stock Monitoring Support										Projects designed to monitor stocks.											
Skagit Bay Nearshore/ Marine Salmonid Distribution	Intensively Monitored Watershed - assessment of distribution of out-migrating fish	A = 1 GA = 1 H = all P = all	NA	nearshore	Estuary or Nearshore	10 year study monitoring Chinook in Skagit Bay	Chinook		On-going monitoring	monitoring	\$200,000	monitoring	\$200,000	monitoring	\$200,000	2015	Skagit River System Cooperative, NOAA, ??	\$600,000	\$600,000	Funded: NOAA, IMW SRFB, Tribes	
Port Susan and Saratoga Passage Neashore/Marine Salmonid Distribution	assessment of distribution of out-migrating fish	A = 1 GA = 1,2 H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook		Ongoing	beach seining	\$150,000	beach seining	\$150,000	beach seining	\$150,000	ongoing	Tribes, NOAA, WSU Extension	\$450,000	\$150,000	partially funded: Tribes, NOAA, volunteers, SRFB, MCF	
Admiralty Inlet Nearshore/ Marine Juvenile Salmonid Distribution	assessment of distribution of out-migrating fish	A = 1 GA = 2,3 H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook	Chum		seining	\$100,000	seining	\$100,000	seining	\$100,000	ongoing	Tribes, NOAA, Wild Fish Conservancy	\$300,000	\$0	unknown	
WRIA 6 Juvenile Salmon Origins	genetic identification of distribution of stocks using WRIA 6 nearshore	A = 1 GA = all H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook		Ongoing sampling	analysis of genetic samples	\$80,000	synthesis of all WRIA habitat and fish data	\$60,000			2010	Skagit River System Cooperative	\$140,000	\$140,000	funded: SRFB, SRSC, partners	
Whidbey Basin Trophic Interactions Scoping	evaluation of predator/prey assessments done to date; development of future scope of work	A = 2 GA = 1,2	NA	nearshore	Estuary or Nearshore		Chinook		Conceptual			evaluation of work to date; scoping	\$20,000			2010	Tribes, WDFW, NOAA	\$20,000	\$0	unknown	
Admiralty Inlet Trophic Interactions Scoping	evaluation of predator/prey assessments done to date; development of future scope of work	A = 2 GA = 2,3	NA	nearshore	Estuary or Nearshore		Chinook		Conceptual			evaluation of work to date; scoping	\$20,000			2010	Tribes, WDFW, NOAA	\$20,000	\$0	unknown	
Total \$ Stock Monitoring Support = \$1,530,000 \$890,000																					
Research																					
Puget Sound Hydrodynamic Model	calibration of salinity and current model	A = 1 GA = all H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook			field work, analysis	\$100,000					2009	PNNL Battelle, Tribes	\$100,000 ?		partially funded: tribes, NW Straits Commission, ?	
Camano Forage Fish Study 2007-08	intensive monitoring of 50 beach sites (Sept 07-Sept 08)	A = 1 GA = 1,2 H = 2 P = all	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore		Chinook			field work, analysis	?					2008	WDFW	?	?	funded: WDFW	
Whidbey Forage Fish Study 2008-2011	monitoring of beach sites	A = 1 GA = all H = 2 P = all	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore		Chinook			field work, analysis	?	field work, analysis	?			2011	USGS - CHIPS	?	?	funded: USGS	

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Project Information and How it Relates to the Recovery Plan										Current Project Status	2009	2009	2010	2010	2011	2011	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds
Project Name	Project Description	Priority tier of project	Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting	Year 2 Scope		Year 2 Cost	Year 3 Scope	Year 3 Cost	Scope	Year 3 cost						
Shorebird habitat and lifestyle survey and monitoring	monitoring of pigeon guillemot burrows and lifehistories	A = 2 GA = 2 H = 2 P = 2				census and life history work of 100 burrows and fledglings			ongoing field work	filed work, analysis	\$3,000	field work, analysis	\$3,000	field work	\$3,000	ongoing	IC MRC, Whidbey Audubon	\$9,000		Whidbey Audubon	
										Total \$ Stock Monitoring Support =						\$109,000	\$0				
Other																					
Total Non-Capital Need:																\$4,980,400	\$2,066,500				
Priority Projects and Programs Benefiting Non-Listed Species																					
Island County Water Typing	Field survey of stream habitat to ground truth DNR fish distribution	A = 2 GA = all H = 2 P = 2	Altered Stream Morphology/S	riparian	Riparian	determine water type classification in ~25 watersheds in Island County			conceptual	project development	\$5,000	implementation	\$90,000			2011	Wild Fish Conservancy	\$95,000	\$0	unknown; SRFB	
Drainage mapping and verification	evaluation of existing hydrography data layers; field verification	A = 2 GA = all H = 2 P = 2	Altered Stream Morphology/S	riparian	Riparian				ongoing	field verification	\$20,000	field verification	\$20,000	field verification	\$20,000	2010	Tulalip Tribes	\$60,000	\$0	NWIFC	
Small Stream Sampling	fish distribution assessment in streams where fish distribution is unknown	A = 2 GA = all H = 2 P = 2	NA	instream	Instream				ongoing	seining, traps, electrofishing	\$20,000	seining, traps, electrofishing	\$20,000	seining, traps, electrofishing	\$20,000	2010	Tulalip Tribes	\$60,000	\$0	NWIFC	
Whidbey Stormwater Remediation Project	low impact development technical assistance for landowners	A = 2 GA = all H = all P = all	Water Quality	upland	Water Quality Improvement				Ongoing outreach & technical assistance for landowner LID	technical assistance	\$150,000	technical assistance	\$150,000	technical assistance	\$150,000	ongoing	Whidbey Island Conservation District	\$450,000	\$75,000	unknown	
Camano Low Impact Development Training	low impact development outreach and technical assistance	A = 2 GA = 1,2 H = all P = all	Water Quality	upland	Water Quality Improvement				Conceptual	outreach	\$6,000	outreach	\$6,000			2013	Snohomish Conservation District, MRC/WSU Extension	\$12,000	\$12,000	funded: Ecology CCWF grant	
Island County Freshwater Water Quality Monitoring	baseline monitoring of streams and lakes; source id monitoring of streams with impairments	A = 2 GA = all H = 2 P = 3	Water Quality	instream	Water Quality Improvement	Continued monitoring			ongoing monitoring	baseline and source identification water quality monitoring	\$250,000	baseline and source identification water quality monitoring	\$250,000	baseline and source identification water quality monitoring	\$250,000	ongoing	Island County Planning	\$750,000	\$750,000	funded: county, WA Ecology	
Pollution Prevention Outreach	pollution prevention workshops and outreach to shoreline landowners	A = 2 GA = all H = all P = all	Water Quality	upland	Water Quality Improvement	Outreach			Funded; ongoing	outreach	\$8,000					2009	MRC/WSU Shore Stewards	\$8,000	\$8,000	funded: Pollution Prevention Grant	
Maxwelton Smolt Counts	May survey of juvenile Coho in Maxwelton Creek	A = 2 GA = 2 H = 2 P = 3	NA	instream	Instream	Ongoing survey	Coho	Cutthroat	Ongoing; annual outmigration survey of Coho in Maxwelton Creek	monitoring & equipment	\$3,000	monitoring	\$3,000	monitoring	\$5,000	ongoing	Whidbey Watershed Stewards	\$11,000	\$6,000	unknown	
Follow-up Monitoring Maxwelton Creek Tidegate	Coho spawner surveys	A = 2 GA = 2 H = 2 P = 3	Loss of Habitat	instream	Instream	Report prepared; monitoring fish use/returns	Coho	Cutthroat	ongoing; completed for 2008 & 2009	spawner surveys	\$2,000	spawner surveys	\$2,000	spawner surveys	\$2,000	2012	Whidbey Watershed Stewards; Wild Fish Conservancy	\$6,000	\$6,000	MRC	
Quade Creek Enhancement	culvert replacement and riparian planting	A = 2 GA = 2 H = 2 P = 3	Riparian Areas and LWD Recruitment	riparian	Riparian	Replace culvert	Coho	Cutthroat	Completed; now in maintenance phase	riparian maintenance	\$10,000	riparian maintenance	\$10,000	riparian maintenance	\$10,000	2012	Whidbey Watershed Stewards	\$30,000	\$10,000	Community Salmon Fund, Whidbey Watershed Stewards	
Maxwelton Watershed Fish Passage Culverts	replacement of fish passage barriers identified in 2005 creek inventory	A = 2 GA = 2 H = 2 P = 3	Loss of Habitat	instream	Instream	Remove fish passage barrier, providing passage to upper 2 miles of stream habitat	Coho	Cutthroat	conceptual; landowner willing			design & permitting of Wildes Rd. culvert replacement	\$45,000	Final design, construction	\$250,000	2015	Island County Public Works, Whidbey Watershed Stewards	\$295,000	\$85,000	unknown	
Maxwelton Watershed Fish Passage Culverts (Daisy Ln)	replacement of fish passage barriers and habitat restoration	A = 2 GA = 2 H = 2 P = 3	Loss of Habitat	instream	Instream	Replace fish blocking culvert, restore adjacent riparian habitat	Coho	Cutthroat	conceptual/planned	removal of failing road crossing	\$15,000	design & permitting of Daisy Ln. culvert replacement	\$15,000	replacement of Daisy Ln culvert	\$70,000	2015	Whidbey Watershed Stewards	\$100,000	\$40,000	unknown	
Upper Glendale Creek Watershed Culvert replacement	culvert replacement and riparian planting	A = 2 GA = 2 H = 2 P = 3	Community Engagement	instream	Instream	improve headwater drainage, and improves fish passage	Chum		conceptual	preliminary feasibility	\$5,000	design & permitting	\$10,000	construction	\$50,000	ongoing	Whidbey Watershed Stewards	\$65,000	\$0	unknown	
Upper Kristoferson Creek Enhancement	4 tributary culvert replacements and riparian planting	A = 2 GA = 1 H = 2 P = 2	Loss of Habitat	instream	Instream	replacement of culverts in fish bearing stream			conceptual/planned	culvert replacement & riparian planting	\$30,000	culvert replacement & riparian planting	\$40,000			2011	Landowner	\$70,000	\$0	unknown	
Kristoferson Farm Riparian Restoration	riparian planting along Kristoferson Creek on Kristoferson Farm	A = 2 GA = 1 H = 2 P = 2	Areas and LWD Recruitment	riparian	Riparian	restore vegetative stream buffer			Completed planting; now in maintenance phase	maintenance	\$4,000	maintenance	\$4,000			2012	Landowner	\$8,000	\$8,000	funded: ???	

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Project Name	Project Description	Priority tier of project	Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting	Current Project Status	2009	2009	2010	2010	2011	2011	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds
										Year 2 Scope	Year 2 Cost	Year 3 Scope	Year 3 Cost	Year 3 Scope	Year 3 cost					
Kristoferson Creek Enhancement-Barnum Rd	culvert replacement and riparian planting	A = 2 GA = 1 H = 2 P = 2	Reduced Habitat Capacity	instream	Instream	Replace partially blocking culvert address restoration of lower 1 mile of stream caused during flood event			Design partially completed; funding sought	design and permitting	\$25,000	construction	\$85,000			2010	Island County Planning	\$110,000	\$17,000	unknown
Lower Glendale Creek Restoration	instream habitat restoration to be determined	A = 2 GA = 2 H = 2 P = 3	Reduced Habitat Capacity	instream	Instream		Coho	Cutthroat	conceptual	assessment; design and permitting	?	Design/Permitting; construction	?	construction; Monitoring	?	2011	Island County Public Works	?	?	unknown; SRFB
Coupeville Reclaimed Water Feasibility Assessment	feasibility of redirecting sewer outflow from Penn Cove to Ebey's Prairie	A = 2 GA = 2 H = 2 P = 2	Water Quality	nearshore embayments	Water Quality Improvement					assessment	\$83,000				2009	Town of Coupeville	\$83,000	\$173,000	funded: WA Ecology Reclaimed Water Grant	
Penn Cove Water and Sewer Reclaimed Water Feasibility Assessment	feasibility of redirecting sewer outflow from Penn Cove to uplands north of cove	A = 2 GA = 2 H = 2 P = 2	Water Quality	nearshore embayments	Water Quality Improvement					assessment	\$47,500				2008	Penn Cove Water and Sewer District	\$47,500	\$47,500	funded: WA Ecology Reclaimed Water Grant	
Holmes Harbor Low Impact Development Demonstration Project	design and construction of LID infrastructure	A = 2 GA = 2 H = 2 P = 2	Water Quality	nearshore embayments	Water Quality Improvement	Example of LID for Holmes Harbor Shellfish Protection District			Final construction near completion	design and construction	\$75,000				2009	Island County Planning	\$75,000	\$75,000	funded: WA Ecology	
Coupeville Parking Lot Low Impact Development Remediation	design and construction of LID infrastructure	A = 2 GA = 2 H = 3 P = 2	Water Quality	upland	Water Quality Improvement	LID development of parking lot; use as LID reference /example for community			Feasibility; initial design completed	design	\$50,000	construction	\$300,000		2010	Whidbey Island Conservation District, Town of Coupeville	\$350,000	\$0	unknown	
Total Non-Listed Species Need:																				
																\$2,685,500 \$1,312,500				