
WRIA 6 (Island) 2011 3-Year Implementation Work Plan Narrative

The WRIA 6 Salmon Technical Advisory Group (TAG) and lead entity staff have developed this three-year implementation work plan (IWP) update as a planning and tracking tool for local and regional partners involved in salmon recovery. 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 planned actions, needs, and priorities of the watershed over the next 3 years (2011-2013).

This version of the implementation work plan (IWP) includes many of the projects submitted in the 2010 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. Significant changes to project categories include additional habitat restoration projects, and habitat protection. Top tier projects are those that address priority actions, priority geographic areas, work to protect priority ecosystem processes, and priority habitats as identified in the WRIA 6 Multi-Species Salmon Recovery Plan (SRP).

This update attempts to address regional guidance intended to: 1) facilitate communication between the local watershed groups and regional representatives (both Puget Sound Partnership [PSP] and Recovery Implementation Technical Team [RITT]) regarding work, status, and needs of salmon recovery at the local and regional levels; 2) help develop a region wide understanding of the work, status, and needs of salmon recovery over the next three years; 3) identify priority projects for funding; and 4) document changes in implementation of the local recovery plan.

This narrative also describes how key regional issues are being addressed at the local scale, issues facing local implementation, and near term priorities for the Island County Salmon Recovery Program.

STRATEGY

The WRIA 6 SRP has adopted an integrated and comprehensive approach to salmon recovery as a function of water resources management in the watershed. The strategy employs three core elements to address salmon recovery.

- ① Providing access to technologies and the best available science
- ② Promotion of improved salmon recovery practices and facilities
- ③ Support for long-term sustainability through the creation of an enabling environment in which salmon recovery activities can be supported and take place

We feel this 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. Implementation of the SRP will likely not be successful without finding social, political, and funding support.

Below is a brief discussion of the four SRP goals in regard to general status of implementation, priorities, and challenges anticipated over the next three years.

GOALS AND OBJECTIVES

Learning more about salmon use of WRIA 6 habitats, setting measurable goals, establishing a robust protection strategy, and working with the community to find solutions that work for fish and people are the underlying primary goals of the WRIA 6 Multi-Species Salmon Recovery Plan.

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.

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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.

Progress towards this goal is characterized by work completed in the WRIA including habitat assessments, acquisitions of priority sites, and planning and implementation of restoration actions. Specific examples of completed and planned actions regarding these objectives are discussed below in “2011 matrix discussion” (including the following sections: “Habitat Restoration”, “Habitat – Acquisition for Future Restoration”, “Habitat – Acquisition For Protection”, “Non – Capital Habitat Protection”).

Over the past decade studies have been conducted on juvenile salmon use of the nearshore and different habitats. Recent research including the stock origins of juvenile Chinook found in WRIA 6 using DNA and juvenile Chinook use of small non-natal coastal streams continues to provide important insights about priority salmon habitat in WRIA 6.

Nearshore Protection Prioritization. The recovery program is developing the first iteration of a tool intended to identify priority nearshore reaches for protection activities. A draft summary of each of the priority reaches has been completed and the program is working to finalize the report. A primary goal will be to provide guidance regarding appropriate actions related to protection including formal protection activities (acquisition) and as well as targeted outreach/education about nearshore processes, habitats, and species utilization. It is intended that this guidance will be updated as new knowledge becomes available.

Shoreline Master Program (SMP) Updating the Island County SMP is a critical regulatory tool in protection of shoreline habitat. Protection of existing habitat function is a combination of regulatory and voluntary efforts. As described in the SRP, protection of intact habitat will continue to be a priority action given the challenges related to continued population growth in the county and demand for shoreline access. Island County is on schedule to update its SMP by late 2012.

Over the past year Island County has made progress towards the update through the hiring of an in-house SMP update coordinator and a consultant to support update deliverables. The County has also developed a technical group to assist in the update which includes a number of representatives from the salmon recovery program and lead entity staff. An important task of the salmon recovery program, the County, and others will be to work together to ensure that high quality salmon habitat is identified and protected in the updated SMP.

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.

Progress has been made in our understanding of the role of the nearshore ecosystem at both the local and regional scale since adoption of our SRP. More research and monitoring are needed to both assess both the current status of salmon and the results of restoration and recovery activities. Examples of completed and planned actions regarding these objectives are discussed

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below in “2011 matrix discussion” (including the following sections: “Project Monitoring”, “Stock Monitoring”).

Over the past ten years several research projects have been conducted in and around WRIA 6 and have substantially increased our understanding of how, when, and where juvenile salmon utilize the freshwater and nearshore habitat in WRIA 6. However, data gaps still exist and the existing research and data needs to be compiled, the linkages between the different research efforts need to be made, and an updated list of data gaps generated.

Information about local aquatic habitat attributes is continually being collected and updated by different organizations and agencies. An important challenge is finding a place/system to host these changes/updates/information and conducting the necessary QA/QC to ensure the final projects are of sufficient quality and able to be used appropriately.

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.

It will be important for the program to continue to work with partners to find ways to effectively engage the community and disseminate information in order to make gains in public support needed to take actions necessary to implement salmon recovery. Examples of completed and planned actions regarding these objectives are discussed below in “2011 matrix discussion” (including the following sections: “Education/Outreach”, “Project Monitoring”).

In addition to a number of actions planned to support this goal, the salmon recovery program has been provided funding support to develop a comprehensive communication strategy to help in integrating education/outreach efforts related to the SRP. Work within the program, along with associated organizations such as the Whidbey Island EcoNet and the Snohomish/Camano EcoNet, will help advance strategic education/outreach activities and help integrate ongoing efforts being made by partners that will help advance the Goal 3 objectives.

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.

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The recovery program will need to address the necessity of integrating ongoing watershed efforts by partners, and integrate the work and efforts of groups such as the TAG, WRAC, and MRC. Examples of completed and planned actions regarding these objectives are discussed below in “2011 matrix discussion” (including the following sections: “Watershed Plan Implementation & Coordination”).

Securing funding for organizational capacity for local salmon recovery partners continues to be a critical need identified in this matrix. The “Watershed Plan Implementation & Coordination” section of the matrix addresses the need for funding for groups that have minimal staff capacity to participate in WRIA 6 salmon recovery activities, and groups that have historically chosen to have limited participation in the WRIA 6 process due to funding limitations. These groups provide critical scientific, technical, or policy support necessary for plan implementation. Identifying and securing basic capacity funding is a critical step if local salmon recovery activities are going to deliver protection and restoration results in this timeframe. This limitation of organizations will continue to impact the ability to fully implement the SRP.

Building capacity of the Lead Entity organization, Island County, has been supported through PSAR capacity and NEP funds to help fulfill some of the key tasks related to capacity to implement the Salmon Recovery Program.

Monitoring and Adaptive Management

Work towards developing monitoring and adaptive management plans are high priorities for our Salmon Recovery Program over the coming year and the watershed looks forward to working more closely with PSP staff and the RITT. The recovery program intends to review the progress completed in adjacent watersheds to develop realistic, useful and applicable monitoring and adaptive management plans. This process will also need to address the question of who and how the monitoring and adaptive management plans will be overseen within the watershed.

Below are discussions regarding specific questions that have been asked in the 2011 Three-Year Work Plan/Program Guidance.

Consistency Question

- 1. What are the actions and/or suites of actions needed for the next three years to implement your salmon recovery chapter as part of the regional recovery effort? (A template spreadsheet with general categories is provided to identify which actions and/or suites of actions are needed. Please note that you can use the HWS to produce a list of habitat actions)***

See the attached matrix. Descriptions of each of the project categories are included in this narrative. Funding and staffing capacity will likely hinder the implementation of all these actions within the next three years.

Pace/Status Question

- 2. What is the status of actions underway per your recovery plan chapter? Is this on pace with the goals of your recovery plan?***

As pointed out in regional feedback provided to the watershed last year, although there has been progress made towards many of the objectives and actions of our SRP, it is difficult to evaluate the pace of implementation as our SRP does not include quantified habitat goals. Although we feel that the general guidance provided in the SRP provides the opportunistic actions to be initiated which might be challenging in a more rigid plan, this lack of specific quantifiable actions creates some uncertainty as to the effectiveness of actions meant to support the Goals. However, specific actions and timelines are described in the SRP and implementation of many of these actions is behind schedule.

- 3. What is the general status of implementation towards your habitat restoration, habitat protection, harvest management, and hatchery management goals? Progress can be tracked in terms of ‘not started, little progress, some progress, or complete’ or in more detail if you choose.***

Habitat restoration: Some progress. See “Matrix Discussion” below.

Habitat protection: Some progress. Protection is a high priority action in the SRP and partners have been fairly successful in acquiring priority sites for protection and future restoration opportunities. See “Matrix Discussion” below.

Harvest and Hatchery Management: No notable progress made.

Sequence/Timing

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4. *What are the top implementation priorities in your recovery plan in terms of specific actions or theme/suites of actions? How are these top priorities being sequenced in the next three years? What do you need to be successful in implementing these priorities?*

Priorities of the SRP have been discussed above and are listed in the “**Key to Priority Tier Abbreviations**” below (priorities are listed in column three of the IWP matrix). This 3-year work plan is an inclusive list of projects which addresses all goals of our recovery plan. This approach to implementing the plan allows for flexibility as opportunities become available, and local prioritization of projects can be evaluated based on local priorities.

Hurdles to implementation include landowner willingness, funding, and staff capacity (related to funding). Funding is likely to continue to be problematic given the current economic situation. Seeking of new partners may help in offsetting some of these problems.

Next Big Challenge

5. *Do these top priorities reflect a change in any way from the previous three-year work program? Have there been any significant changes in the strategy or approach for salmon recovery in your watershed? If so, how & why?*

No, our priorities have not changed since the previous IWP update. Some of the priorities include the SMP update, adaptive management plan, and completing the nearshore protection prioritization list.

6. *What is the status or trends of habitat and salmon populations in your watershed?*

We are not aware of data that provides any comprehensive evaluation of salmon population and/or habitat trends within the watershed. Ongoing work being completed as part of Island County’s SMP update may provide some insight into understanding these trends and/or establishing baseline information.

7. *Are there new challenges associated with implementing salmon recovery actions that need additional support? If so, what are they?*

The needs and challenges facing the watershed are generally discussed above and are not new (including drafting monitoring and adaptive management plans which will be a priority over the next year).

Like others jurisdictions and agencies, Island County and our partners have felt the economic downturn. The County itself is facing budget shortfalls which has reduced staff’s capacity to address key regulation updates, provide technical support to landowners, and will be generally challenged to initiate projects to support salmon recovery. Current economic conditions may also continue to hamper the ability of watershed partners to participate in recovery efforts.

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Last year's IWP mentioned the concern that WRIA 6 was looking for guidance on how the watershed should consider updating the SRP to reflect new knowledge. Regional feedback seems to have indicated that watersheds should track such changes through the IWP updates for the time being.

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2010 Matrix Discussion

The following section discusses each of the categories listed in the matrix. This describes how each category of projects support SRP goals, fit within the local strategy, and briefly describes some of the significant results accomplished.

Key to Priority Tier Abbreviations (priorities are listed in column three of the IWP matrix)

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 habitat functions which support Chinook, other salmonids, and forage fish where there is supporting scientific knowledge and local commitments. Enhance WRIA 6 marine food webs for all salmon that migrate through WRIA 6 marine waters at all life stages. 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. Act where there are willing landowners, scientific justification, and efficient use of funds. Pursue actions that coincide with ongoing regional efforts, such as derelict nets removal, creosote debris removal in key nearshore habitats, and Spartina control.

Magnitude/Sequence: The actions in this section are initial steps towards a net increase in Chinook, other salmonids, and forage fish habitats in Island County. These projects are important opportunities to demonstrate how recovery actions can recognize and incorporate community concerns into projects that provide significant benefits to salmon.

WRIA 6 Results: Funding has been secured to remove riprap from Ala Spit to restore natural sediment processes critical to maintain nearshore and pocket estuary functions. Removal of creosote debris from nearshore completed and continues (although program funding not well supported). Spartina control has occurred with removal the majority of meadows , with program

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generally in a maintenance mode for the WRIA. Restoration of salmonid access to 200 acres of marsh at Crescent Harbor (north Saratoga Passage) completed in 2009. Significant progress has been made towards the removal of Derelict Fishing Net removal, with 357 legacy nets now having been removed from WRIA 6 waters and an estimated 32 nets remaining.

Result over past year (2010-2011) : SRFB funding obtained to restore approximately 1100 linear feet of shoreline in Cornet Bay. Approximately 40 derelict nets were removed. Spartina control resulted in the treatment of approximately 11 acres of infestation.

Funding: Total estimated project costs are approximately \$2,530,000 over the next 3-year period; approximately \$635,000 has been secured.

Changes to Matrix 2010 and 2011: Dugualla Heights Lagoon Restoration added to this section of matrix with the goal of returning tidal connection and restoring habitat. Pocket Estuary restoration at Camano Island State Park also added resulting from a recently completed assessment of the site identifying the promising opportunity. Design work and permitting is ongoing with restoration funding already secured at Cornet Bay, Ala Spit, and Livingston Bay.

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 and/or quality of nearshore habitat, accessibility to fish, and opportunities to restore high priority habitats such as pocket estuaries and marshes.

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

Results: Past acquisitions for protection and/or restoration have occurred at Ala Spit, Deer Lagoon, Swan Lake, Dugualla Heights Lagoon, Skagit Bay nearshore, and Livingston Bay pocket estuary.

Results over past year (2010-2011): None known

Funding: Total estimated project costs are approximately \$0 million over the next 3-year period; approximately \$0 million has already been secured.

Changes to Matrix Between 2010 and 2011: No new projects. Acquisitions completed in Livingston Bay and Skagit Bay have been completed and removed.

Habitat – Acquisition for Protection

Purpose: Provide permanent protection for high quality nearshore habitats, nearshore processes, and ecosystems functions. 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.

Magnitude/Sequence: Opportunities to purchase, or gain conservation easements on high quality nearshore habitat should be identified and pursued as soon as possible, and the watershed must continue to refine priorities based on new knowledge. Population growth in Island County has been rapid in recent years resulting in significant residential development. Development is likely to continue to be sought at desirable shoreline property.

Results: Acquisition of pocket estuary, marsh, and upland habitat in Port Susan, contiguous to over 7,000 acres of protected nearshore habitat. Approximately 40 of non-developed nearshore where acquired in Livingston Bay included a pocket estuary for restoration. The Henry Hollow site was acquired on west Camano to protect natural shoreline and a freshwater stream.

Results over past year: None known.

Funding: Total estimated project costs are approximately \$16,735,000 over the next 3-year period, although the budgets for many of the project areas is dependent on opportunities which have not been clearly identified.

Changes to matrix between 2010 and 2011: Acquisition opportunity at Swede Hill Nearshore

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site added to protect nearshore sites.

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.

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

Results: none known

Results over past year: none

Funding: none known

Changes to Matrix between 2010 and 2011: none

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 are constrained by existing development and ongoing uses. Securing landowner support for restoration projects require a detailed, site specific feasibility study. Studies are necessary to identify and alleviate community concerns, address infrastructure constraints, and evaluate design alternatives.

Magnitude/Sequence: This category is critical in advancing priority projects through gaining community support and evaluating alternatives at priority sites. Secure landowner support, establish outreach to neighboring landowners, and evaluate project alternatives at potential project sites. Develop initial project designs for sites where landowner willingness is established and site evaluation shows significant benefit for salmon.

Results: An assessment was completed at Ala Spit which has been used to secure restoration funding. An initial study was completed at Iverson Spit/Lagoon which outlines recommendations for future feasibility work. The "Skagit Basin Neashore Assessment" was completed by SRSC which reviewed habitat and nearshore processes of 10 WRIA 6 pocket estuaries in Skagit Bay.

Results over previous year (2010-11): SRSC completed feasibility assessments regarding restoration of two pocket estuaries at "Possession Beach" and "Lowell Point", indicating that restoration is promising at the Lowell Point site. Work to assess the feasibility of improving tidal connectivity at Deer Lagoon is ongoing and the feasibility work is being used to support public outreach. An initial investigation was completed which reviewed historic connectivity and current hydrological conditions at Swan Lake. PSNERP initiated work to develop 10% design at Dugualla Bay and Livingston Bay sites.

Funding: Total estimated project costs are approximately \$970,000 over the next 3-year period; approximately \$105,000 has already been secured.

Changes to matrix between 2010 and 2011: Skagit Basin Nearshore Assessment removed. Project completed in 2009 examining 10 pocket estuaries in Skagit Bay.

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

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agencies to evaluate and update habitat management plans on public lands. Work with local governments to integrate appropriate regulations. Develop and promote landowner incentives. 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.

Results: Strawberry Point Nearshore Protection Project completed which integrated protection planning, landowner outreach and technical assistance in a geographic priority area.

Results over previous year: Island County has initiated work towards updating the SMP. Staff has been hired to lead process, and a consultant is assisting. Additional, organizations within the Lead Entity are participating in the process and active in the SMP advisory committee. Oak Harbor and Langley are also updating SMPs.

Funding: Total estimated project costs are approximately \$1,268,000 over the next 3-year period; approximately \$237,000 has already been secured (although a significant amount of the funding need will be for regulation updates which are likely to be grant funded).

Changes to matrix between 2010 and 2011: Strawberry Point Nearshore protection project completed in 2009 and removed. Development of a project aimed at assessing protection/restoration activities on North Camano/Utsalady has been initiated.

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.

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 further project prioritization are both high priorities in the watershed. Basic capacity funding limits many watershed partners ability to work and implement actions in WRIA 6.

Results: Increased efforts around targeted salmon and nearshore focused stewardship outreach, landowner technical assistance, project review, data synthesis and distribution, ID of key research needs, protection strategy, and initial review of adaptive management planning. 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.

Results over previous year: Efforts by many partners to engage in implementing the SRP and participating in salmon recovery projects and programs will be limited by funding restraints.

Funding: Total estimated project costs are approximately \$1,210,500 over the next 3-year period; approximately \$312,500 has already been secured.

Changes to matrix between 2010 and 2011: Capacity funding was secured through the Puget Sound Acquisition and Restoration funds to support capacity of the Lead Entity core functions, development of 3 year work plans in 2010 and 2011, support of the Habitat Work Schedule, and further development of the Protection Prioritization project to help in identifying priority nearshore sites and associated protection actions at each. Island County created Clean Water Utility

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Assessment to fund a number of water resources program including some support of the recovery program. Initial plans are underway to work towards developing a local adaptive management framework, and support provided by NEP.

Outreach and Education

Purpose: Meaningful advances towards protection and restoration will be possible with broad public support and community engagement. Provide outreach to residents and visitors throughout WRIA 6 about the importance of nearshore habitats for salmon and forage fish populations. Work with citizens to advance opportunities to protect and restore habitats where opportunities arise. Engage the community in participating in recovery actions and dialogue. Outreach and Education advances Goal #3 of the Island County Salmon Recovery Plan.

Strategy: Develop an increased understanding of the community's and individual landowners' willingness to support actions related to salmon recovery. Implement targeted outreach strategies using existing programs, and when necessary, new materials and programs. Actions will be needed to increase community awareness of local salmon recovery issues, specifically the habitat needs of listed species and forage fish; and links between upland and nearshore habitats.

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.

Results: Community assessment of landowner attitude and knowledge completed by Island County, which also discussed integration opportunities related to watershed partners involved in salmon recovery activities. The Island MRC has been involved in installing educational signage at over nine parks in the watershed highlighting the importance of marine and nearshore for salmon, forage fish and other species. Volunteers have been involved in collecting fish data at nearshore sites discussed in the monitoring section, along with in the Maxwellton basin. Education has been ongoing in local child focused programs (schools and other organizations) in the watershed.

Results over previous year: MRC signs placed 4 signs in parks. "Finfest" was a public event held to help educate about the relationship between Orcas and salmon with approximately 200 attendees. An education/outreach plan has begun to be developed to make integrated and strategic approach towards implementing salmon recovery communication efforts.

Funding: Total estimated project costs are approximately \$329,000 over the next 3-year period; approximately \$128,500 has already been secured

Changes to matrix between 2010 and 2011: This year a Communication Plan has been added to help develop an integrated and strategic approach for partners participating in outreach activities as called for in the SRP.

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 will lead to increased habitat data about freshwater connectivity.

Results: None reported.

Results over previous year: None reported.

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

Funding: A single conceptual project remains with total estimated project costs approximately \$40,000 over the next 3-year period. No secured funding for this project yet.

Changes to matrix between 2010 and 2011: None.

Habitat Project Monitoring

Purpose: Initiate monitoring activities to evaluate salmon recovery projects in WRIA 6. Habitat

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Project Monitoring advances Goal #2 of the Island County Salmon Recovery Plan.

Strategy: Establish robust monitoring program to help in evaluating projects and strategy, and support adaptive management. Ensure pre and post - monitoring as appropriate

Magnitude/Sequence: These activities are the initial steps towards a robust project monitoring program. New and additional activities will be identified and funding sought as needs and opportunities are identified.

Results: Data from this monitoring program will be used as a part of the future WRIA 6 salmon recovery adaptive management program. **Results over previous year:** Ongoing data is also being collected by WSU Beach watcher and MRC sponsored projects, which is provided to NOAA (salmonid use), WDFW (forage fish use), and DNR (eelgrass). Monitoring at Cornet Bay for forage fish and salmonid use continues in support of the restoration planned. Habitat and fish use monitoring is occurring at the Crescent Marsh restoration site. Fish use data is being collected at the Dugualla Heights Lagoon site in preparation for planned restoration.

Funding: Total estimated project costs are \$225,000 over the next 3-year period; minimal funds have been secured.

Changes to matrix between 2010 and 2011: Pre-construction fish use data collection was added to address planned restoration at Dugualla Heights Lagoon.

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. Stock Monitoring Support advances Goal #2 of the Island County Salmon Recovery Plan.

Strategy: Pursue fisheries science collaboratively at sub-region scale. Continue marine fish distribution surveys, identify stock origins, and initiate an evaluation of marine trophic interactions as an initial step in H-integration.

Results: IMW research continues in the Skagit Bay collecting data relating to out-migrating fish. The West Whidbey Nearshore Juvenile Fish Use Assessment was completed in 2008. Many other data sets have been collected in recent decades to help in understanding WRIA 6 nearshore salmonid use.

Results over previous year: Completion of "WRIA 6 Juvenile Salmon Origins" project nearing completion.

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 \$700,000 over the 3-year period; approximately \$600,000 has been secured

Changes to matrix between 2010 and 2011: No new projects added to this section. Staff has been unable to confirm the status of some of the listed projects.

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.

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

Results: Initial hydrodynamic modeling has been completed for the Puget Sound. Work has been completed regarding monitoring eelgrass, shoreforms, shoreline armoring, and forage fish.

WRIA 6 (Island) 2011 3-Year Implementation Work Plan Narrative

Results over previous year: Monitoring of pigeon guillemont burrows and life history continues. Guillemont's dependence on forage fish forage fish and "nest" in Island County.

Funding: Lack of updated information does not allow for accurate

Changes to matrix between 2010 and 2011: No new projects added to this section. Staff has been unable to confirm the status of some of the listed projects.

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. Projects focusing on the lower sections of stream systems may become a higher given ongoing studies looking at the use of these areas for Chinook rearing.

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.

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

Results: Improved upland hydrology, water quality and riparian habitats benefiting salmon in the nearshore and the health of Puget Sound. Many of the projects added to this list have secured funding and focus on water quality improvements. Several culverts which have been acting as fish barriers have been retrofitted to increase the ability for fish passage in the Maxwellton watershed. Riparian restoration has been completed along several salmon bearing streams.

Results over previous year: Water quality monitoring is now in its fifth year. Smolt surveys on the Maxwellton stream system continued with fish observed in Quade Creek. Data has been collected and is currently being synthesized regarding juvenile salmonid utilization of the lower sections of small streams of the WRIA.

Funding: Total estimated project costs are approximately \$2,221,000 over the 3-year period; approximately \$1,135,000 has been secured

Changes to matrix between 2010 and 2011: 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. Significant outreach efforts have been undertaken by the County to support community understanding of the situation.

Island Watershed (WRIA 6) 2011-13 Three-Year Implementation Work Plan

Project Information and How it Relates to the Recovery Plan							Project Planning					Project Cost and Sponsor								
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	2011 Activity to be funded - Scope	2011 Estimated cost	2012 activity to be funded - scope	2012 Estimated cost	2013 activity	2013 estimated cost	Likely End Date	Likely Sponsor	Total Cost of first three years	Local share or other funding	Source of funds
<p><i>Projects focused on restoration, acquisition for eventual restoration, and/or acquisition for protection.</i></p> <p>Capital Projects - Listed Species</p>																				
Habitat Restoration																				
Ala Spit Enhancement & Protection	protection and/or restoration of sediment down drift processes to maintain spit habitats and associated pocket estuary (based on recommendations from completed assessment)	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	remove 850 feet of riprap; action will restore natural sediment drift process with purpose to restore maintain and pocket estuary	Chinook	bull trout, chum	Feasibility Completed; Ongoing work related to final design and permitting	final design & construction	\$315,000	Post construction monitoring (see below)		Post construction monitoring (see below)		2011	Island County	\$315,000	\$48,000	SRFB (funded); local; Island County; EPA
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 - approximately 50 nets remain	net removal	\$70,000		\$0			2011	NW Straits Foundation	\$70,000	\$146,000	Mostly funded with NOAA/Recovery Act funding through end of 2010; ongoing removal seeking SRFB
Spartina Removal Projects	identification and removal of Spartina anglica throughout Island County as part of monitoring	A = 2 GA = all H = 1,2 P = 1,2	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Monitor and remove spartina; anticipation of approximately 15 acres in 2011	Chinook		Large proportion of sites have been treated; ongoing monitoring & treatment of identified sites planned	monitoring & removal	\$25,000	monitoring & removal	\$25,000	monitoring & removal	\$25,000	ongoing	IC Weed Control, WDFW	\$75,000	\$60,000	WDFW; Marine Conservation Fund
Livingston Bay Pocket Estuary Restoration	restoration of tidal connectivity by removing section of dike (contingent on assessment recommendations and landowner willingness) Restore/enhance of shoreline processes and habitat through removal of creosote bulkhead and removal of shoreline fill; enhancement of eelgrass, marshland and forage fish habitat at Deception Pass State Park	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 approximately 100 foot section of dike and tidal reconnection	Chinook	Chum, Bull trout	Acquisition complete; design and restoration funded	design & permitting	\$45,000	final design & permitting, construction	\$180,000			2012	The Nature Conservancy	\$225,000	\$62,000	SRFB/PSAR; local; others sought
Cornet Bay Enhancement/Restoration	restoration of tidal connectivity by removing section of dike (contingent on assessment recommendations and landowner willingness) Restore/enhance of shoreline processes and habitat through removal of creosote bulkhead and removal of shoreline fill; enhancement of eelgrass, marshland and forage fish habitat at Deception Pass State Park	A = 2 GA = 1 H = 2 P = 2	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore	Restore 2500 feet of nearshore	Chinook		Restoration design completed for several reaches where restoration funded; permitting ongoing	final design and permitting for several reaches (1200 linear feet of shoreline)	\$45,000	segment construction; restoration	\$265,000	monitoring		2013	SRFB, NFWF, NOAA (MRC), USFWS, WA Parks	\$310,000	\$319,000	NFWF, NOAA (MRC), USFWS, WA Parks
Crescent Harbor Marsh Restoration	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 connection to 200 acres of salt marsh habitat	Chinook	Chum, Bull trout	construction & connection completed in 2009; monitoring and adaptive management to follow construction	Adaptive Management Elements. Monitoring some maintenance. Completion of feasibility study and alternative analysis					2012	Skagit River System Coop. Navv	\$0 ?		Some Adaptive Management and Maintenance Elements Are not. Mostly funded: SRFB, ESFP, SRSC, Navv.	
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	Restore tidal connection to historic pocket estuary of approximately 375 acres	Chinook	Chum	Feasibility study funded	analysis	\$40,000			Final design & Permitting	\$120,000	2015	Wild Fish Conservancy	\$160,000	\$0	unknown
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		Planned - dependent on funding	removal of creosote debris and pilings	\$20,000	removal of creosote debris and pilings	\$20,000	removal of creosote debris and pilings	\$20,000	unknown	WA DNR, local volunteers, MRC	\$60,000	\$0	Program not funded - WA DNR
Dugualla Heights Restoration	Restore tidal connectivity to pocket estuary, enhance salt marsh and uplands	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Restore tidal connection to historic pocket estuary of 12 acres intertidal and 13 acres of high marsh and upland	Chinook	chum, bull trout	Feasibility almost completed; Working on Permitting and final design and construction	completion of feasibility study, permitting, grant allocations	\$50,000	permitting and final design, grant allocations	\$70,000	construction	\$660,000	2014	WICD, WCLT	\$780,000	\$140,000	SRFB, USFWS, NRCS, others
Camano Island State Park Pocket Estuary Restoration	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 4.4 acres of salt marsh habitat	Chinook	bull trout, forage fish	Restoration Design and permitting. Feasibility assessment completed in 2010.	Design and Permitting	\$20,000	Design and Permitting	\$115,418	Final design & construction	\$400,000	2014	Skagit River System Coop, WA State Parks	\$535,418 ?	\$0	unknown
<p>Total \$ Restoration = \$2,530,418 \$635,000</p>																				
Habitat Acquisition for restoration																				
COMPLETED - 2009 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 for protection and future restoration; potential of up to approx. 30 acres of nearshore could be restored	Chinook		Acquisition completed							2009	Whidbey Camano Land Trust	\$0	\$0	funded: SRFB/PSAR, local
COMPLETED - 2009 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	Acquisition of approximately 40 acres nearshore containing 10 acre pocket estuary for restoration	Chinook		Acquisition completed							2009	The Nature Conservancy	\$0	\$0	partially funded: SRFB, USFWS
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

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	\$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	\$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	\$600,000	2015	Whidbey Camano Land Trust	\$830,000	\$125,000	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	\$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)		top priority nearshore acquisitions (1 conservation easement)	\$50,000	\$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)		top priority nearshore acquisitions (conservation easements)	\$50,000	\$1,500,000	2016	Whidbey Camano Land Trust	\$1,550,000	\$225,000	Unknown
Barnum Point / Triangle Cove Protection	acquisition to protect high quality nearshore, shoreline, and marine riparian habitat	A = 1 GA = 1 H = 1 P = all	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	one to three fee simple acquisitions protecting nearshore, shoreline, and marine riparian habitat and processes	Chinook	Conceptual and Feasibility assessment underway	top priority nearshore acquisition (phase one of three)	\$2,500,000	top priority nearshore acquisition (phase two of three)	\$4,500,000		2015	Island County, Whidbey Camano Land Trust, The Nature Conservancy	\$7,000,000	\$1,050,000	SRFB, ESRP, Local, NOAA, USFWS, private, other sources
Crockett Lake 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	\$2,500,000	top priority nearshore acquisitions	\$2,500,000		2012	Whidbey Camano Land Trust	\$5,000,000 ?		Unknown
Swede Hill High Priority Nearshore Habitat Protection	acquisitions and conservation easements that protect intact top priority nearshore processes and functions	A = 1 GA = 2 H = all P = 1 & 3	Loss of Habitat	nearshore embayments	Land Protected, Acquired, or Leased	conservation easements protecting nearshore habitat and processes	Chinook			\$200,000	\$1,100,000					\$1,300,000		
										Total \$		Habitat Acquisition for restoration =		\$16,735,000		\$2,505,000		
<p>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.</p> <p>Hatchery</p> <p>NONE</p> <p>Other</p> <p>Total Capital Need: \$19,265,418 \$3,140,000</p> <p>Non-Capital Programs - Listed Species</p> <p>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.</p> <p>Harvest Management Support</p> <p>NONE</p> <p>Future Habitat Project Development</p> <p>Projects designed to assess future needs for habitat restoration projects.</p>																		
COMPLETED - 2009	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 10 Skagit Bay Pocket Estuaries	Chinook	Data collection completed; Report completed						2009	Skagit River System Cooperative	\$0		funded: SRFB, SRSC
COMPLETED - 2010	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	Completed 2009; Feasibility study						2010	Skagit River System Cooperative, S. Whidbey Port	\$0	\$40,000	funded: Swinomish & Lummi
COMPLETED - 2010	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 completed	Project moved to Restoration					2010	Skagit River System Cooperative, State Parks	\$0	\$40,000	funded: Swinomish & Lummi
West Deer Lagoon Feasibility Assessment and Neighborhood Outreach	feasibility assessment of enhancing tidal connectivity and fish passage, and outreach activities	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Prepare feasibility study and initial design, and conduct public outreach	Chinook Chum	Feasibility study and outreach ongoing	Completion of assessment and outreach	\$50,000				2011	Wild Fish Conservancy	\$50,000	\$0	SRFB/PSAR, WFC

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	Chum	Conceptual; initial conceptual study completed			feasibility study, design	\$160,000	2012	Island County, Siliquamish Tribe, Wild Fish Conservancy	\$160,000	\$0	SRFB: 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; initial conceptual study completed	Water Monitoring program	\$25,000	assessment and 30% design of preferred restoration alternative	\$215,000	2013	Swan Lake Watershed Preservation Group; Skagit Fisheries Enhancement Group	\$240,000	\$25,000	SRFB; County; local
County Club Lagoon	feasibility assessment of enhancing fish passage	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Study to improve feasibility of improving fish passage	Chinook	Chum	Conceptual			feasibility study	\$50,000	2011	Tulalip; Island County	\$50,000	\$0	unknown
Crocket Lake	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	Feasibility study to determine restoration potential	Chinook	Chum	Conceptual			feasibility study	\$95,000	2014	Wild Fish Conservancy, SRSC, US National Parks	\$170,000	\$0	SRFB, ESFP
Duoualla Bay	feasibility assessment of enhancing tidal connectivity and fish passage	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	Feasibility study to determine restoration potential	Chinook	Chum	Conceptual; 10% design in progress via PSNERP			feasibility study	\$175,000	2013	Navv, SRSC, others	\$300,000	\$0	SRFB, ESFP, PSNERP, NAVY
													Total \$ Habitat Project Development =			\$970,000	\$105,000	
Habitat Protection																		
Projects designed to assess, monitor, or participate in planning activities related to habitat protection. This includes monitoring.																		
COMPLETED - 2009 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		Completed March 2010					2009	Island County ; Whidbey Conservation District	\$0	\$5,000	funded; SRFB
Penn Cove and Admiralty Inlet Nearshore Water Quality Restoration	integrated protection planning, technical assistance and nearshore water quality remediation implementation	A = 1 GA = 2 H = all P = all	Degraded habitat; landowner permission	nearshore beaches	Estuary or Nearshore		Chinook	bi-valves	Implemented	phyto-remediation monitoring, evaluation and reporting	\$27,000	Continued monitoring and landscape scale phyto planning	\$11,000	2012	MRC, Island County Watershed Implementation Planning Unit, Town of Coupeville, US National Parks (easement)	\$38,000	\$127,000	IC MRC, IC Health Department, Town of Coupeville and US Parks (easement)
North Camano Nearshore Protection Project (Utsalady Bay focus area)	integrated restoration and 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 habitats, sites, and properties	Chinook	Forage fish, coho, chum	Data collection, WDFW policy research	protection and restoration plan, landowner outreach and technical assistance	\$75,000	feasibility assessment, landowner outreach and fundraising for acquisitions	\$75,000	2015	MRC; Island County	\$235,000	\$10,000	MRC, NOAA, NWSC
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	synthesis update SMP and fish & wildlife section of ordinance	\$25,000	2012	MRC; Island County	\$50,000	\$0	unknown
Island County SMP & CAO Update	update of critical area regulations; wetland section completed	A = 1 GA = all H = all P = all	Reduced Habitat Capacity	riparian; nearshore	Estuary or Nearshore	Review and update SMP and F&W section of ordinance	Chinook	Forage fish, coho, chum	Ongoing	update SMP and fish & wildlife section of ordinance	\$200,000	update SMP and fish & wildlife section of ordinance	\$200,000	2013	Island County	\$600,000 ?		DOE; Island 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 review/ evaluation of state ownership & discussion w/ agencies	\$35,000	finalize plan & evaluation	\$70,000	ongoing	MRC; Island County	\$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/ agency	\$50,000			2010	MRC; Island County	\$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	MRC; Island County	\$50,000	\$0	unknown
													Total \$ Non-Cap Habitat Protection =			\$1,128,000	\$247,000	
Watershed Plan Implementation & Coordination																		
Projects designed to increase the capacity of watersheds to implement the recovery plan.																		
WRIA 6 Salmon Lead Entity Coordinator	Lead Entity tasks, Recovery Chapter coordination	A=1	Human Resources	All	All		Chinook		Ongoing	LE operational grant tasks, etc.	\$65,000	LE operational grant tasks, etc.	\$65,000	ongoing	Island County	\$195,000	\$195,000	funded: Lead Entity operational grant; PSAR capacity funds; NEF funds; Island County
Marine Resources Committee Coordination & Staff	MRC coordination	A=1	Human Resources	All	Estuary or Nearshore				Ongoing	MRC coordination	\$40,000	MRC coordination	\$40,000	ongoing	Island MRC; WSU Extension	\$120,000	\$116,000	funded: NW Straits Commission
WCLT - Protection Capacity Funding	landowner outreach and fundraising for acquisitions	A=1	Human Resources	All	Estuary or Nearshore		Chinook		Ongoing	landowner outreach and fundraising for acquisitions; LE participation	\$27,000	landowner outreach and fundraising for acquisitions; LE participation	\$27,000	ongoing	Whidbey Camano Land Trust	\$81,000	\$0	unknown
Conservation Dist. - Protection Capacity Funding	stewardship outreach, landowner technical assistance, and LE participation	A=1	Human Resources	All	LID, Upland Agriculture, and other				Ongoing	stewardship outreach, landowner technical assistance, and LE participation	\$50,000	stewardship outreach, and LE participation	\$50,000	ongoing	Whidbey and Snohomish Conservation Districts Skagit River System Cooperative, Siliquamish Tribe, Tulalip Tribes	\$150,000	\$0	Mostly funded (Conservation Districts)
SRSC, Siliquamish, and Tulalip - Protection Capacity Funding	project review, stewardship outreach, & LE participation	A=1	Human Resources	All	Estuary or Nearshore		Chinook		Ongoing	project review, stewardship outreach, and LE participation	\$50,000	project review, stewardship outreach, and LE participation	\$50,000	ongoing		\$150,000	\$0	unknown

MRC - Restoration Capacity Funding	project identification, scoping & fundraising	A=2	Human Resources	All	Estuary or Nearshore	Chinook		project id and fundraising; LE participation	\$15,000	project id and fundraising; LE participation	\$15,000	\$15,000	ongoing	Marine Resources Committee	\$45,000	\$0	unknown			
SRSC - 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	\$20,000	ongoing	Skagit River System Cooperative	\$60,000	\$0	unknown			
Stillaguamish - 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	\$20,000	ongoing	Stillaguamish Tribe	\$60,000	\$0	unknown			
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	\$15,000	\$15,000	ongoing	Whidbey Watershed Stewards	\$35,000	\$1,500	WWS Local contributions			
Tulalip - 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	\$20,000	ongoing	Tulalip Tribes	\$60,000	\$0	unknown			
SRSC - 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	\$37,500	ongoing	Skagit River System Cooperative	\$112,500	\$0	unknown			
Wild Fish Conservancy - 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	\$15,000	ongoing	Wild Fish Conservancy	\$45,000	\$0	unknown			
Shore Stewards Coordination	programmatic evaluation of projects/programs and ecosystem functions	A=1	Human Resources	All	Estuary or Nearshore	Chinook		program coordination	\$31,000	program coord	\$28,000	\$28,000	ongoing	IC MRC	\$87,000	\$0	IC MRC			
WRIA 6 Monitoring & Adaptive Management Planning and Implementation	programmatic evaluation of projects/programs and ecosystem functions	A=1	Human Resources	All	All	Chinook	other salmonids, forage fish	Develop WRIA 6 Monitoring and Adaptive Management Plan	\$5,000	Develop WRIA 6 Monitoring and Adaptive Management Plan	\$5,000	\$5,000	ongoing	WRIA 6 TAG; Island County - MRC	\$10,000 ?		WRIA 6 - PSAR capacity/NEP; other unknown			
Total & Watershed Plan Imple. & Coord. =																\$1,210,500	\$312,500			
Projects designed to increase outreach and education related to watershed health and salmon recovery.																				
Outreach & Education																				
Marine Stewardship Area Stnasee	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 Area as well as related nearshore features in context to flora, fauna and peoles.	ongoing; installation	instal 2 signs	\$10,000	\$10,000	\$6,000	ongoing	MRC & partners	\$26,000	\$20,000	NWSC (NOAA) via MRC		
Community Knowledge Assessment	evaluation of citizens 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 finalized 2009	follow-up assessment	\$15,000			2012	Island County ; Island County MRC	\$15,000	\$15,000	unknown		
Shore Stewards 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	Chinook		2-3 workshops/year	Conceptual	2-3 workshops	\$6,000	unknown	unknown	ongoing	Whidbey Watershed Stewards	\$6,000	\$6,000	NEP funds; local		
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		design, develop outreach materials	Conceptual	design, develop outreach materials	\$40,000	materials	\$40,000	2013	State Parks	\$80,000	\$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		Increase participation; mobilize citizens promoting nearshore protection, increased knowledge of salmon; reduced non-point pollution	Ongoing; some sites completed	continued	\$4,000	continued	\$4,000	continued	\$4,000	ongoing	SRSC, NOAA, WSU Extension, Island County ; MRC	\$12,000	\$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	Coho	Cutthroat	Provide and distribute strategicallv K-5 grade classes at Maxwellton Classroom; 500-1000 students visits/yr; service-learning with middle school, high school, Scouts, and Community College students	conceptual	design, outreach materials	\$30,000	outreach materials, outreach activities	\$20,000	outreach materials, outreach activities	\$20,000	ongoing	Whidbey Watershed Stewards, WSU	\$70,000	\$20,000	unknown
Booklet: Salmon Swim Amonst Us	telling the story of salmon passing through Island County	A = 2 GA = all H = all P = all	Community Engagement	All	Estuary or Nearshore	Chinook		Provide and distribute strategicallv K-5 grade classes at Maxwellton Classroom; 500-1000 students visits/yr; service-learning with middle school, high school, Scouts, and Community College students	Design completed; needs to be printed	reorint	\$4,000			ongoing	Orca Network	\$4,000	\$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			Presentations at sportfishing events	Underway by sponsor	develop, presentations	\$15,000	presentations	\$15,000	presentations, service learning	\$15,000	ongoing	Whidbey Watershed Stewards, Fisheries Enhancement Groups, WSU Extension	\$45,000	\$15,000	partially funded by CSF
Sportfishing Outreach	outreach campaign to sportfish community at boat ramps &	A = 1 GA = all H = all P = 2	Community Engagement	All	Estuary or Nearshore			establish contact with willing landowners for restoration projects, improve public awareness, reduced non-point pollution	Conceptual	preparation of materials, outreach	\$5,000	outreach	\$5,000	outreach	\$5,000	ongoing	Island County; 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, and watershed education program completed 2010	outreach	outreach, education program	\$5,000	presentations	\$15,000	presentations	\$5,000	ongoing	Whidbey Watershed Stewards	\$25,000	\$5,000	Island County

"Return of the Salmon" celebration	Annual community event to raise awareness of salmon use in Island County	A = 2 GA = all H = all P = all	Community Engagement	All	All	Annual event aimed at awareness of community regarding salmon use and importance in ecosystem			Conceptual	event	\$5,000	event	\$5,000	\$5,000	ongoing	Whidbey Watershed Stewards, Orca Network	\$15,000	\$30,000	unknown	
****NEW PROJECT 2010	Plan to help in strategically implementing communication activities in the watershed related to salmon recovery	A = 2 GA = all H = all P = all	Community Engagement	All	All	Document outlining strategic actions related to implementing salmon recovery action and integrating ongoing efforts happening in the watershed	forage fish; other salmonids	Conceptual; planning begun and funding for plan preparation dedicated		prepare plan/strategy and prepare materials	\$16,000	implement and coordinate plan	implement and coordinate plan		ongoing	Island County, Whidbey Watershed Stewards, TAG	\$16,000		PSAR capacity, local	
Total \$ Outreach & Education =																	\$329,000	\$128,500		
Instream Flow Protection	Projects designed to protect instream flows.																			\$0
Watershed analysis	connectivity of water resources	A = 2 GA = all H = all P = all	Altered Stream Morphology/Stream Flow Patterns	instream	instream			Onoing:		analysis & data compilation	\$20,000	analysis & data compilation	\$20,000	\$20,000	ongoing	Tulalip Tribes	\$40,000		\$0	
Total \$ Instream Flow Protection =																	\$40,000	\$0		
Project Monitoring	Projects designed to monitor habitat projects. Includes adaptive management monitoring and post-construction monitoring.																			
Cornet Bay - Forage Fish Monitoring	pre and post restoration monitoring of habitat and fish use	A = 2 GA = 1 H = 2 P = 2				2000 feet of shoreline monitoring		active monitoring	post-monitoring,	\$5,000	continued	\$5,000	continued	\$5,000	2011	MRC, WDFW	\$15,000		WSU Beach Watchers	
Cornet Bay - 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 at site		active monitoring	post-monitoring,	\$3,000	continued	\$3,000	continued	\$3,000	2011	MRC, NOAA	\$8,000			
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	active mapping and analysis	continue mapping and data analysis	\$7,000	continued	\$7,000	continued	\$2,000	2015	MRC, WSU Beach Watchers monitors	\$16,000	\$21,000	MRC	
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	Estuary or Nearshore	Monitor habitat and fish use in 200 acre restored salt marsh	Chinook	Construction Completed. Habitat and Fish monitoring in progress	habitat and fish surveys	\$35,000	surveys	\$35,000			2012	Navy, University of Washington, Skagit River System Coop; Beachwatchers	\$70,000	\$0	Partially Funded: Navv	
Duguala Heights Lagoon Monitoring	pre and post restoration monitoring	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore	Estuary or Nearshore	monitor habitat and fish use at approximately 10 acre pocket estuary restoration site	Chinook	restoration design funded	Pre restoration monitoring	\$25,000	post-construction monitoring (habitat & fish)	\$25,000	post-construction monitoring (habitat & fish)	\$25,000	2015	WCLT; SRSC; Skagit Fisheries Enhancement 2015 Group	\$75,000		???	
Ala Spit post construction monitoring	post construction monitoring of habitat and fish use	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore	Estuary or Nearshore	Post construction/restoration at spit	Chinook	Feasibility Completed; Working on Permitting and final design and construction	post-construction monitoring (habitat & fish)	\$20,000	post-construction monitoring (habitat & fish)	\$20,000	\$20,000	2013	Island County	\$40,000	?	Local, ?		
Total \$ Project Monitoring =																	\$225,000	\$21,000		
Stock Monitoring Support	Projects designed to monitor stocks.																			
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	10 year study monitoring Chinook in Skagit Bay. Study area includes area from Western edge of Deception Pass to Ponell Pt and across to Utsalady.	Chinook	Data has been collected and is being synthesized	completion of synthesis of all WRIA habitat and fish data	\$30,000					2011	Skagit River System Cooperative	\$30,000	\$140,000	funded: SRFB, SRSC, partners	
Skagit Bay Nearshore/Marine Salmonid Distribution	Intensively Monitored Watershed - assessment of distribution of out-migrating fish living in skagit estuary and nearshore areas of Skagit Bay, including WRIA 6 nearshore.	A = 1 GA = 1 H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook	On-going monitoring; Results will be synthesized 2010	monitoring; data synthesis	\$200,000	monitoring; data synthesis	\$200,001	monitoring; data synthesis	\$200,000	2015	Skagit River System Cooperative, NOAA, ??	\$600,001	\$200,000	Funded: NOAA, IMW SRFB, Tribes. Pacific Salmon Treaty Research	
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	Onoing	beach seining	\$150,000				ongoing	Tribes, NOAA, WSU Extension	\$150,000	\$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	ongoing	seining	\$100,000				ongoing	Tribes, NOAA, Wild Fish Conservancy	\$100,000	\$0	unknown		
Whidbey Basin Trophic Interactions Scooino	evaluation of predator/prey assessments done to date; development of future scope of work	A = 2 GA = 1.2 H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook	Conceptual			evaluation of work to date: scooino	\$20,000			2010	Tribes, WDFW, NOAA	\$20,000	\$0	unknown	
Admiralty Inlet Trophic Interactions Scooino	evaluation of predator/prey assessments done to date; development of future scope of work	A = 2 GA = 2.3 H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook	Conceptual			evaluation of work to date: scooino	\$20,000			2010	Tribes, WDFW, NOAA	\$20,000	\$0	unknown	
Total \$ Stock Monitoring Support =																	\$920,001	\$350,000		
Research																				
Shorebird habitat and lifestyle survey and monitoring	monitoring of pigeon guillemot burrows and life histories	A = 2 GA = 2 H = 2 P = 2				census and life history work of 100 burrows and fledolinos		ongoing field work	field work	\$3,000	seabird census	\$3,000		ongoing	IC MRC, Whidbey Audubon	\$6,000	\$9,000	IC MRC		
Puget Sound Hydrodynamic Model	calibration of salinity and current model	A = 1 GA = all H = all P = all	NA	nearshore	Estuary or Nearshore		Chinook								PNL Battelle, 2009 Tribes	\$0	?	partially funded: tribes, NW Straits Commission. ?		

Camano Forage Fish Study 2007-08	intensive monitoring of 50 beach sites (Seot 07-Seot 08)	A = 1 GA = 1,2 H = 2 P = all	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore	Chinook						2008 WDFW	\$0 ?	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						2011 USGS - CHIPS	\$0 ?	funded: USGS	
Total \$ Stock Monitoring Support = unknown													\$9,000		
Other															
Total Non-Capital Need:															
													\$4,822,501	\$1,164,000	
Priority Projects and Programs Benefiting Non-Listed Species															
Small Stream Sampling	fish distribution assessment in streams where fish distribution is unknown	A = 2 GA = all H = 2 P = 2	Habitat access	instream	Instream		ongoing	Synthesis of data	\$20,000			2011 Tulalip Tribes	\$20,000	\$0 NWFC	
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 - in 5th year of baseline study	baseline and source identification water quality monitoring	\$250,000	baseline and source identification water quality monitoring	\$250,000	ongoing	Island County	\$750,000	\$750,000 funded: county, WA Ecology
Maxwellton Smolt Counts	May survey of juvenile Coho in Maxwellton/Quade Creek system	A = 2 GA = 2 H = 2 P = 3	NA	instream	Instream	Ongoing survey	Coho	Cutthroat	\$3,000	monitoring	\$3,000	ongoing	Whidbey Watershed Stewards	\$11,000	\$6,000 WWS Local contributions, MRC
Follow-up Monitoring Maxwellton 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	\$2,000	spawner surveys	\$2,000	ongoing, completed for 2008 & 2009	Whidbey Watershed Stewards, Wild Fish Conservancy	\$14,000	\$6,000 WWS local contributions, MRC
Quade Creek Enhancement	culvert replacement and riparian planting	A = 2 GA = 1 H = 2 P = 3	Riparian Areas and LWD Recruitment	riparian	Riparian	Replace culvert	Coho	Cutthroat	\$10,000	riparian maintenance	\$10,000	Completed; now in maintenance phase	Whidbey Watershed 2012 Stewards	\$20,000	\$10,000 Community Salmon Watershed Stewards
Kristoferson Farm Riparian Restoration	riparian planting along Kristoferson Creek on Kristoferson Farm	A = 2 GA = 1 H = 2 P = 2	Riparian Areas and LWD Recruitment	riparian	Riparian	restore vegetative stream buffer			\$4,000	maintenance	\$4,000	Completed planting; now in maintenance phase	2012 Landowner	\$12,000	\$8,000 funded: ???
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/Stream Flow Patterns	riparian	Riparian	determine water type classification in watersheds in Island County				project development	\$5,000	conceptual	Wild Fish Conservancy; Island 2013 County	\$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/Stream Flow Patterns	riparian	Riparian					field verification	\$20,000	ongoing	2010 Tulalip Tribes	\$40,000	\$0 NWFC
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				\$30,000	technical assistance	\$30,000	Ongoing outreach & technical assistance for landowner LID	Whidbey Island Conservation District	\$90,000	\$75,000
Maxwellton 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	\$45,000	design & permitting of Wildes Rd. culvert replacement	\$250,000	conceptual; landowner willing	Island County Public Works, Whidbey Watershed Stewards	\$295,000	\$85,000 unknown
Maxwellton Watershed Fish Passage Culverts (Daisy Ln, Coyote Ln)	habitat restoration	A = 2 GA = 2 H = 2 P = 3	Loss of Habitat	instream	Instream	restore riparian habitat, enhance rearing habitat for coho	Coho	Cutthroat	\$2,000	adaptively manage	\$2,000	completed	Whidbey Watershed 2015 Stewards	\$4,000	\$4,000 unknown
Upper Glendale Creek Watershed Culvert replacement	culvert replacement and riparian planting	A = 2 GA = 1 H = 2 P = 3	Community Engagement	instream	Instream	improve headwater drainage, and improves fish passage	Chum		\$10,000	construction	\$50,000	conceptual	Whidbey Watershed 2015 Stewards	\$60,000	\$1,000 WWS local contributions
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				culvert replacement & riparian planting	\$40,000	conceptual/planned	2012 Landowner	\$40,000	\$0 FFFAA
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				design and permitting	\$25,000	Design partially completed; funding sought	2013 Island County	\$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	address restoration of lower 1 mile of stream caused during flood event	Coho; Chum	Cutthroat		Design/Permitting; construction	\$400,000	Some instream and riparian restoration completed	Island County Public Works; Tulalip	\$600,000 ?	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					Monitoring	\$200,000	LID development of parking lot; use as LID reference /example for community	2012 Town of Coupeville	\$0	funded: WA Ecology Reclaimed Water Grant
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				\$20,000	Monitoring	\$20,000	Construction completed; ongoing monitoring	Whidbey Island Conservation District, 2010 Town of Coupeville	\$60,000	\$0 unknown
Camano Country Club Creek	Riparian planting/restoration; Instream restoration	A = 2 GA = 1 H = 2 P = 2	Reduced Habitat Capacity	instream; riparian	instream; riparian	Improve fish passage and restore native vegetation	cutthroat	chinook	\$25,000	Instream and riparian restoration	\$25,000	conceptual	2010 Tulalip; SCD	\$25,000	unknown
Orr Creek culvert replacement	culvert replacement and riparian planting	A = 2 GA = 2 H = 2 P = 2	Reduced Habitat Capacity	instream	Instream	Improve fish passage and maintenance requirements of existing culvert	Coho; cutthroat	chinook	\$100,000	design and permitting; construction	\$100,000	conceptual	2010 Tulalip; Island County	\$100,000	unknown
Total Non-Listed Species Need:													\$2,221,000	\$1,135,000	

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