WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

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 (2012-2014). Island County lead entity staff developed this update with considerable input from local partners and review by the WRIA 6 Salmon Technical Advisory Group (TAG). This document and associated project matrix are intended to be used as a planning and tracking tool for local and regional partners involved in salmon recovery.

This version of the implementation work plan (IWP) includes many of the projects submitted in the 2011 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. 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). It should be noted that the work plan spreadsheet has inclusively listed projects sponsors are interested in and that many of the projects are unlikely to be accomplished without significant increases in funding resources and/or additional landowner/community support.

In this update, WRIA 6 has considered 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 attempts to discuss 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.

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. In the below section, each of the 4 SRP goals are briefly discussed in regards to status of implementation, and program priorities and challenges anticipated over the next three years.

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.

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 "2012 Matrix Discussion" (including the following sections: "Habitat Restoration", "Habitat – Acquisition for Future Restoration", "Habitat – Acquisition For Protection",

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

"Non – Capital Habitat Protection"). Actions listed within this Goal should be updated and prioritized when new knowledge becomes available.

Over the past decade research has 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. This information needs to be compiled, synthesized, and disseminated to help better identify priority actions, data gaps, and habitats.

Nearshore Protection Prioritization. In 2011, a summary report was completed to help identify priority WRIA 6 nearshore reaches for protection activities. A primary goal of this report was 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. This product is intended to be a living guidance document and updated as new knowledge becomes available.

Shoreline Master Program (SMP). SMP's play critical regulatory roles protecting existing habitat and helping manage development along our shorelines. 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. Several representatives from the salmon recovery program and lead entity staff participate as advisors on the county's SMP committee. A significant task of the salmon recovery program, the County, and others will be to work together to ensure that important salmon habitat is acknowledged and protected in the updated SMP. Island County is on schedule to update its SMP by late 2012. The cities of Oak Harbor and Langley are also in process of updating their SMPs.

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 below in "2012 matrix discussion" (including the following sections: "Project Monitoring", "Stock Monitoring").

Over the past ten years several research projects have been conducted in and adjacent to WRIA 6 and have substantially increased our understanding of juvenile salmon use of nearshore habitat. This information helps describe how, when, and where juvenile salmon utilize the freshwater and nearshore habitat in WRIA 6. Recently completed examples include information collected on stock origins of juvenile Chinook found in WRIA 6 using DNA, and juvenile Chinook use of small non-natal coastal streams. These examples provide important insights about priority salmon 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 identified.

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

Information about local aquatic habitat attributes is continually being collected and updated by different organizations and agencies. An important challenge is finding a system to host these updates/changes 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 "2012 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 communication strategy to help in implementing and integrating education/outreach efforts related to the SRP. Progress continues towards completion of the strategy which is expected to support project sponsors and the efforts of program partners involved in outreach efforts.

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.

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 "2012 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

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

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.

Monitoring and Adaptive Management

Development of monitoring and adaptive management plans continues to be high priorities for our Salmon Recovery Program. The program intends to work towards development of 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.

<u>Below are discussions regarding specific questions that have been asked</u> in the 2012 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 and priorities described within the previous review of WRIA 6 goals. 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 stated in previous versions of this document and acknowledged 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.

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

Habitat restoration: Some progress. Generally, restoration activities have been difficult to implement, partly due to challenges of securing support of landowners/community. 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

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 and looking for opportunities to better integrate efforts may help in offsetting some of these problems.

Next Big Challenge

7.

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. However, generally it has been recognized that increased consideration will need be made to improve effective communication with the stakeholders and the community during project development.

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.

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

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

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 (FWHCA), 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.

2012-2014 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

The WRIA 6 habitat goal states: "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: 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

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

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:

- Ala Spit 850 linear feet of Riprap (shoreline hardening)was removed from the neck of Ala Spit to restore natural sediment processes critical to maintain nearshore and pocket estuary functions.
- Removal of creosote debris from nearshore completed in Port Susan, Crocket Lake, and Double Bluff shorelines (future program funding not well supported).
- Spartina control has been completed in all identified meadows removing over 300 acres within WRIA 6. Monitoring and maintenance treatments will continue.
- Crescent Harbor tidal connection to 200 acres of marsh at 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.

Progress over past year (2011-2012):

- SRFB funding has been secured to restore approximately 1100 linear feet of shoreline in Cornet Bay.
- Permitting and design continues for restoration of Livingston Bay, Dugualla Heights pocket estuaries.
- Funding allocated to remove final derelict nets from WRIA 6 waters.
- Surveys located and led to removal of approximately 4 acres of Spartina.

Funding: Total estimated project costs are approximately \$2,348,000 over the next 3-year period; approximately \$1,783,000 has been secured.

Changes to Matrix 2011 and 2012: 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, supporting advancement of SRP goal #1.

Strategy: Acquire and/or gain conservation easements where there are opportunities 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 there is landowner willingness.

Results: Past acquisitions that provide restoration opportunities include Ala Spit, Deer Lagoon, Swan Lake, Dugualla Heights Lagoon, Iverson, Skagit Bay nearshore, and Livingston Bay pocket estuarv.

Results over past year (2011-2012): None known

Funding: Total estimated project costs are approximately \$1.1million over the next 3-year period; approximately \$0 million has already been secured.

Changes to Matrix Between 2011 and 2012:

Acquisition for future restoration opportunity added for Livingston Bay opportunities. •

Habitat – Acquisition for Protection

Purpose: Provide permanent protection for high quality nearshore habitats, nearshore processes, and ecosystems functions. These actions advance Goal #1 of the SRP.

Final

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

Strategy: Acquire and/or gain conservation easements on high guality nearshore habitats focusing on top priority habitats. Nearshore habitat will likely to continue to see development pressure at desirable shoreline property and efforts should focus on likely risks.

Magnitude/Sequence: Opportunities to purchase, or gain conservation easements on high quality nearshore habitat should be identified, and the watershed must continue to refine priorities based on new knowledge.

Results:

- Several acquisitions in Port Susan/Livingston Bay resulting in over 7,000 contiguous areas of protected nearshore habitat including pocket estuary, marsh habitat, and upland nearshore.
- The Henry Hollow site was acquired on west Camano to protect natural shoreline and a • freshwater stream.

Results over past year: None known. In early 2012, the National Coastal Estuarine Wetland program provided awards to support acquisition of several high priority nearshore sites. Funding: Total estimated project costs are approximately \$13,885,000 over the next 3-year period; most projects are conceptual and dependent on opportunities which have not been clearly identified.

Changes to matrix between 2011 and 2012: No significant changes

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: Not clearly defined for WRIA. Magnitude/Sequence: Not clearly defined for WRIA. Results: none known Results over past year: none

Fundina: none known

Changes to Matrix between 2011 and 2012: none

Future Habitat Project Development:

Purpose: These projects are intended to help assess future habitat restoration needs and opportunities. These projects will support advancement of Goals #2 and #3 of the SRP. **Strategy:** Many of the top priority nearshore restoration projects in WRIA 6 are seemingly constrained by adjacent development and/or existing 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:

- Assessment for restoration at Ala Spit was completed (and used to secure restoration) funding).
- An initial study was completed at Iverson Spit/Lagoon which outlines recommendations for • future feasibility work.
- The "Skagit Basin Nearshore Assessment" was completed by SRSC which reviewed habitat • and nearshore processes of 10 Skagit Bay pocket estuaries.
- Feasibility assessments regarding restoration of two pocket estuaries at "Possession Beach" and "Lowell Point", indicating that restoration is promising at the Lowell Point site.
- Initial modeling to review tidal reconnection opportunities at Deer Lagoon was completed. •
- Initial review of historic connectivity and current hydrological conditions at Swan Lake. Results over previous year (2011-12):

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

- PSNERP initiated work to develop 10% design at Dugualla Bay and Livingston Bay sites.
- Design work to support restoration at Cornet Bay completed.
- Initial design completed at Dugualla Heights site.

Funding: Total estimated project costs are approximately \$1,135,000 over the next 3-year period; it is unclear on the funding already been secured.

Changes to matrix between 2011 and 2012: No significant changes

Habitat Protection

Purpose: Support capital protection of habitat with regulatory and implementation of voluntary protection strategies, monitoring of habitat quality indicators, and habitat management planning. Advances Goal #1, #3, and #4 of the Island County Salmon Recovery Plan.

Strategies: 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. Evaluation of nearshore protection needs, and outreach to landowners to provide technical assistance and stewardship. . Establish methods for nearshore protection evaluation. 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:

- Updates to SMP continue in Island County, city of Oak Harbor and Langley. Organizations within the Lead Entity are participating in the process and active in the SMP advisory committee.
- Creation and planning related to Port Susan Marine Stewardship Area continues.
- Funding was directed towards Penn Cove and Admiralty Inlet water quality improvement projects.

Funding: Total estimated project costs are approximately \$1,780,000 over the next 3-year period: funding has been secured to complete updates to SMP and support Port Susan MSA planning.

Changes to matrix between 2011 and 2012:

 Port Susan MSA project added to help track this ongoing work directed to improve stewardship of Port Susan across WRIA boundaries.

Watershed Plan Implementation and Coordination

Purpose: Coordinate and implement salmon recovery activities 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. Advances Goal #4 of SRP.

Strategy: Secure funds for other organizations that have expertise/interest in in salmon recovery (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 limited funding impacts capacity to

participate in and implement activities within WRIA 6. Given the small size and limited funding mechanisms in WRIA 6, capacity funding will continue to be a hurdle to fully implement SRP activities. Initial development of an adaptive management framework and further project prioritization are both high priorities in the watershed.

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.

Final

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

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 the 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 \$1,426,500 over the next 3-year period; it is unclear what funding has been secured/dedicated.

Changes to matrix between 2011 and 2012: None

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. Advances goal #3 of the SRP

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.

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 actives.
- The Island MRC has installed educational signage at public shorelines to highlight the importance of marine and nearshore for salmon, forage fish and other species.
- Volunteers from the public have been collecting fish data at nearshore sites discussed in the monitoring section.
- Several programs have been implemented to help educate schools and other youth programs on watershed issues and salmon use in WRIA 6.

• Finfest public event to educate the public on the relationship between Orcas and salmon. **Results over previous year**:

- Ongoing work to develop Communication Strategy to support implementation of the SRP.
- School targeted outreach continued including Whidbey Watershed Steward program at 'outdoor classroom'.

Funding: Total estimated project costs are approximately \$344,000 over the next 3-year period; secured funding is unclear

Changes to matrix between 2011 and 2012: no significant changes

In-Stream Flow Protection

Purpose: Maintain freshwater resource quantities sufficient to support salmon recovery and other beneficial uses. Advances Goal #1 and #2 of the SRP.

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: Some work related to this category addressed in small stream investigation.

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

Funding: No funding needs identified

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

Changes to matrix between 2011 and 2012: The single project listed in previous years was removed because work is being addressed as part small stream study.

Habitat Project Monitoring

Purpose: Initiate monitoring activities to evaluate salmon recovery projects in WRIA 6. Advances Goal #2 of the SRP.

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. Monitoring considerations must be evaluated in advance of any restoration activities to ensure appropriate monitoring activities occur. **Results**:

• Preconstruction monitoring of habitat and fish use completed at Ala Spit.

Results over previous year:

- Eelgrass monitoring occurring at 24 sites within the county to map eelgrass coverage.
- Preconstruction monitoring activities at Cornet Bay and Dugualla Heights restoration sites are ongoing.
- Post construction monitoring plan developed for Ala Spit.
- Post construction monitoring ongoing at Crescent Harbor.

Funding: Total estimated project costs are \$271,000 over the next 3-year period; minimal funds have been secured.

Changes to matrix between 2011 and 2012:

Stock Monitoring Support

These activities should be a part of a regional monitoring program to improve understanding of specie and stack use in WRIA 6 waters.

Purpose: Initial quantification of the relationships between nearshore habitat functions and Chinook life histories. Advances Goal #2 of the SRP

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.

Magnitude/Sequence: 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.

Results:

- IMW research continues in the Skagit Bay collecting data related to out-migrating fish and use of WRIA 6 nearshore.
- 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.
- Forage fish surveys were completed for Camano and Whidbey islands.
- Port Susan nearshore salmonid distribution and habitat analysis completed (2009) **Results over previous year**:
- Completion of "WRIA 6 Juvenile Salmon Origins" project completed providing genetic data indicating what Chinook stocks are found using WRIA 6 nearshore.

Funding: Total estimated project costs are approximately \$660,000 over the 3-year period; approximately \$600,0000 is believed to be fairly secured

Changes to matrix between 2011 and 2012: No new projects added to this section.

Research

WRIA 6 (Island) 2012 3-Year Implementation Work Plan Narrative

Purpose: Increase specificity in identifying projects and habitat priorities; increase knowledge about species that support salmon in the nearshore and freshwater environments. Advances Goal #2 of SRP.

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. Projects should be pursued when there is opportunity to address identified needs in information.

Results: Total estimated project costs are approximately \$440,000 over the 3-year period; all funds are believed to be secured

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

Results over previous year:

• Initial investigation completed looking at non-natal salmonid use of small coastal streams in the Whidbey Basin (report in 2012). 15 of 16 streams found non-natal salmon.

Funding:

Changes to matrix between 2011 and 2012:

- Added project intended improve understanding of fish use in small WRIA 6 coastal streams and develop predictive modeling tool to assist in identifying potential habitat.
- Funding acquired to support bulkhead study examining to improve understanding and help quantifiably predict impacts of shoreline armoring to nearshore ecology. Regional (Puget Sound) study applicable to WRIA 6.

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 opportunities with 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:** There are many ongoing activities related to activities within this section which benefit water quality, stream habitats, and indirectly the nearshore.

Results:

- Culverts in the Maxwelton, Glendale, and Kristoferson creeks have been retrofitted to improve fish passage.
- Riparian restoration has been completed along sections of the Maxwelton, Kristoferson, and Glendale streams.
- Stream Typing completed in Kristoferson, Chapman, and Maxwelton basins.
- Water quality monitoring completed for fifth year of program.

Results over previous year: Smolt and spawner surveys continued in the Maxwelton stream system.

Funding: Total estimated project costs are approximately \$2,506,000 over the 3-year period; it is unclear what funding has been secured

Changes to matrix between 2011 and 2012: None

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

	Pro	ject Informa	ation and How	it Relates to th	e Recovery Pla	an					Project	t Planning					F	Project Cost and	Sponsor	
roject Name	Project Description	Priority tie of project	er Limiting Factors	Habitat Type	Activity Type	Project Performance	Primary Species Benefiting	Secondary Species Benefiting	Current Project Status	2012 activity to be funded - scope		2013 activity to be funded - scope	2013 estimated cost	2014 activity to be funded - scope	estimated	Likely End Date	Likely Sponsor		Local share or other funding	Source of funds
Capital Projects - isted Species Habitat	Projects focused on restoration, acquisition for eventual restoration, and/or acquisition for protection.																			
la Spit Enhancement & rotection	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 restor maintain and pocket estuary		bull trout, chum, pink, forage fish salmon,	final design and	Post construction monitoring (see below)		2nd phase restoration jetty assessment (removal of 275 feet of bulkhead; beach nourishment); monitoring (see below)		Post construction monitoring	\$10,000	2015	Island County	\$250,000	\$35,000	SRFB; local; Isla County; WSU) beachwatchers
erelict 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		Survey and remove remaining known derelict nets	Chinook	rockfish, marine mammals, birds, others	Ongoing - approximately 22 nets remain; permitting complete angle proportion of sites have been	remove 22 nets	\$65,000						NW Straits Foundation	\$65,000	\$146,000	Mostly funded with NOAA/Recovery Ar funding through en o of 2010; SRFB
partina Removal Projects	identification and removal of Spartina anglica throughout Island County as part of monitoring	GA = all H = 1,2 P = 1,2	Loss of Habitat	nearshore embayments		Monitor and remove spartina where located Restoration of 10 acre			treated; ongoing monitoring & and treatment of identified sites planned	monitoring & removal	\$50,000	monitoring & removal	\$50,000	monitoring & removal	\$50,000	ongoing	IC Weed Control, WDFW	\$150,000	\$60,000	WDFW; Marine) Conservation Fu
ivingston Bay Pocket stuary Restoration	restoration of tidal connectivity by removing section of dike shoreline processes and habitat through removal of	A = 1 GA = 1 H = 1 P = 1	Loss of Habitat	nearshore embayments		removal of dike, fill and tidal reconection	h	Chum, Bull trout; forage fish	Acquisition complete; 30% complete; permitting ongoing	final design & permitting, construction	\$315,000	monitoring		monitoring Monitoring, evaluating			The Nature Conservancy		Complex mix of	SRFB/PSAR; loca) others sought
ornet Bay nhancement/ lestoration	creosote bulkhead and removal of shoreline fill; enhancement of eelgrass, marshland and forage fish habitat at Deception Pass State Park	GA = 1	Reduced Habitat Capacity	nearshore beaches	2	2000 linear ft and 7 acres of wetland	Chinook		bonon aonon ana naa	Release of RFP for 2000 linear foot restoration		Planting, monitoring and wetland planning efforts	\$50,000	and reporting of 2012 work and plannign of Phase 2 restoration work	\$100,000		Current sponsors are WA SRFB, US FWS, City of Oak Harbor and Island MRC	5		See source documents
rescent Harbor Marsh estoration	Restore tidal connectivity and improve of internal hydrologic connectivity identification and removal	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments		restore connection to approximately 200 acres of salt marsh habitat	Chinook	Chum, Bull trout	connectivity completed for most of site; monitoring ongoing; restoration antipated to continue upon relocation of sewage treatment plant	Ongoing adaptive management		Adaptive Management ;	\$50,000	Sewage treatment plant removal assessement	\$90,000		Skagit River System Coop, Navy; City of Oak Harbor	\$190,000	?	SRFB, ESRP, SRSC, Navy.
reosote Log & Piling emoval	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		removal of creosote debris and pilings		removal of creosote debris and pilings	\$20,000		WA DNR, local volunteers, MRC	\$60,000	\$(Program not) funded - WA DNI
ugualla Heights testoration	Restore tidal connectivity to historic pocket estuary, and enhance salt marsh and upland habitates	d GA = 1	Loss of Habitat	nearshore		Restore tital connectio to historic pocket estuary of 12 acres intertidal and 13 acres of high marsh and marine riparian area		chum, bull trout	Feasibility complete; Permitting and final design ongoing	permitting and final design, and completion of funding identification		construction	\$790,000	revegetation and monitoring			WICD, WCL	T \$920.000		SRFB, USFWS, 0 NRCS, others

Habitat Acquisition for restoration																	
	acquisitions and conservation easements that provide future	۸ – 1			Land	conservation					priority Irshore						
Livingston Bay High	restoration opportunities of	GA = 1			Protected,	easements protecting					uisitions						
Priority Habitat for Restoration	nearshore processes and functions	H = all P = all	Loss of Habitat	nearshore embayments	Acquired, or	nearshore habitat and processes	Chinook	Conceptual			nservation ements)	\$1,100,000			Whidbey Camano 2016 Land Trust	\$1,100,000	SRFB, USFWS, \$225.000 ESRP
Restoration		1 – dii	Παριται	embayments	Leaseu	processes	CHINOOK	Conceptual		Cas	ements)	φ1,100,000				\$1,100,000	\$223,000 LON
Habitat Acquisition for																	
protection										top	priority		top priority				
	acquisitions and conservation				Land Protected,	seven conservation				nea	rshore		nearshore				
South Camano High	easements that protect intact priority nearshore processes	GA = 1 H = all	Loss of	nearshore	Acquired, or	easements protecting nearshore habitat and					uisitions (3 ser.		acquisitions (3 conser.		Whidbey Camano		
Priority Habitat Protection		P = all	Habitat	embayments		processes	Chinook	Conceptual		Eas	sements)	\$550,000	Easements)	\$750,000	2015 Land Trust	\$1,300,000	\$200,000 Unknown
	acquisitions and conservation	A = 1			Land	four conservation					priority Irshore		top priority nearshore				
	easements that protect intact				Protected,	easements protecting					uisitions (1		acquisitions (2				
Strawberry Point High Priority Habitat Protection	priority nearshore processes	H = all P = all	Loss of Habitat	nearshore	Acquired, or	nearshore habitat and processes	Chinook	Conceptual			ser. sements)		conser. Easements)	\$725,000	Whidbey Camano 2014 Land Trust	\$1,325,000	\$200,000 Unknown
Phonity Habitat Protection	and functions	P = all	Παριιαι	embayments		·	CHIHOOK	Conceptual			priority	. ,	top priority	\$725,000	2014 Land Trust	φ1,325,000	\$200,000 Onknown
	acquisitions and conservation				Land Protected,	three conservation					irshore		nearshore				
Cultus Bay High Priority	easements that protect intact top priority nearshore	GA = 2 H = all	Loss of	nearshore	Acquired, or	easements protecting nearshore habitat and					uisitions (1 ser.		acquisitions (1 conser.		Whidbey Camano		
Habitat Protection	processes and functions	P = all	Habitat	embayments		processes	Chinook	Conceptual			sements)		Easements)	\$1,200,000	2014 Land Trust	\$1,350,000	\$200,000 Unknown
	acquisitions and conservation	A = 1			Land	six conservation					priority inage		top priority drainage				
	easements that protect intact				Protected,	easements protecting					uisitions (2		acquisitions (3				
Kristoferson Creek High	top priority watershed	H = 2	Loss of		Acquired, or	watershed habitat and	Obligation	O successful and			servation		conservation	* ~~~~~~~~	Whidbey Camano	\$ 000 000	\$105 000 Halls
Priority Habitat Protection	processes and functions	P = all	Habitat	riparian	Leased	processes	Chinook	Conceptual			ement) priority	. ,	easement) top priority	\$600,000	2015 Land Trust	\$820,000	\$125,000 Unknown
	acquisitions and conservation				Land	three conservation					irshore		nearshore				
Holmes Harbor High	easements that protect intact top priority nearshore	GA = 2 H = all	Loss of	nearshore	Protected, Acquired, or	easements protecting nearshore habitat and					uisitions (1 servation		acquisitions (1 conservation		Whidbey Camano		
•	processes and functions	P = all	Habitat	embayments		processes	Chinook	Conceptual			ement)	\$75,000	easement)	\$65,000	2020 Land Trust	\$140,000	\$30,000 Unknown
	· · · · · · · · · · · · · · · · · · ·				Land	three conservation					priority		top priority				
	acquisitions and conservation easements that protect intact				Protected,	easements protecting					irshore uisitions (2		nearshore acquisitions (1				
Useless Bay High Priority	priority nearshore processes	H = all	Loss of	nearshore	Acquired, or	nearshore habitat and				con	servation		conservation		Whidbey Camano		
Habitat Protection	and functions	P = all	Habitat	embayments	Leased	processes	Chinook	Conceptual			ement) priority	\$50,000	easement)	\$1,700,000	2018 Land Trust	\$1,750,000	\$275,000 Unknown
	acquisitions and conservation				Land	conservation					irshore						
Livingston Bay High	easements that protect intact top priority nearshore	GA = 1 H = all	Loss of	nearshore	Protected, Acquired, or	easements protecting nearshore habitat and					uisitions nservation				Whidbey Camano		SRFB, ESRP, local,
	processes and functions	P = all	Habitat	embayments		processes	Chinook	Conceptual		,	ements)	\$600,000			2016 Land Trust	\$600,000	\$225,000 USFWS
						and to three fee simple			top priority				top priority		Island County,		
		A = 1			Land	one to three fee simple acquisitions protecting			top priority nearshore				top priority nearshore		Whidbey Camano		
	acquisition to protect high	GA = 1	Less of		Protected,	nearshore, shoreline, and		Concentual, nortial	acquisition				acquisition		Land Trust, The		SRFB, ESRP, Local,
Barnum Point / Triangle Cove Protection	quality nearshore, shoreline, and marine riparian habitat	H = 1 P = all	Loss of Habitat	nearshore embayments	Acquired, or Leased	marine riparian habitat and processes	d Chinook	Conceptual; partial funding identified	(phase one of three)	\$1,500,000			(phase two of three)	\$1,500,000	Nature 2015 Conservancy	\$3,000,000	NOAA, USFWS, \$1,050,000 private, other sources
			habitat	onnbagmonto	Loubou	proceede		ranang laontinoa		\$1,000,000				÷ 1/000/000	2010 001100110109	\$0,000,000	
		A = 1			Land	conservation											
	acquisitions that protect	GA = 2 & 3	}		Protected,	easements protecting			top priority								
Crockett Lake High Priority Habitat Protection	y intact top priority nearshor	e H = all P = all	Loss of Habitat	nearshore	Acquired, or	nearshore habitat and	Chinook	Conceptual; partial funding identified	nearshore	\$2,500,000					Whidbey Camano 2012 Land Trust	\$2,500,000 ?	Linknown
Habitat Protection	processes and functions	P = all	Παριιαι	embayments	Leaseu	processes	CHIHOOK	runding identified	acquisitions	\$2,500,000					2012 Land Trust	\$2,500,000 ?	Unknown
					Land	conservation											
Swede Hill/Indian Point	acquisitions and conservation easements that protect intact				Protected,	easements protecting			top priority								
High Priority Nearshore	top priority nearshore	H = all	Loss of	nearshore	Acquired, or	nearshore habitat and		Conceptual; partial	nearshore	• • • • • • • •							SRFB, ESRP, local,
Habitat Protection	processes and functions	P = 1 & 3	Habitat	embayments	Leased	processes	Chinook	funding identified	acquisitions	\$1,100,000						\$1,100,000 \$13,885,000	USFWS \$2,305,000
																- 	<u>+-</u> ,••••,••••
	Projects focused on																
	hatchery program facilities																
	and maintenance to rear fish, maintain fish health																
	and diversity, and minimize	e															
	domestication in fish of																
Hatchery	naturally spawning broodstocks.																

Other	NONE																
Total Capital Need:																\$16,233,000 \$	2,751,000
Non-Capital Programs - Listed Species	ACTIVITIES TELATED TO																
Harvest Management Support NONE	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.																
Future Habitat Project Development	Projects designed to assess future needs for habitat restoration projects.	:															
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 conceptual, initial restoration assessment	Completion of alternative analysis and outreach	Geotechnical analysis of \$30,000 dikes	\$75,00	0		Wild Fish 2011 Conservancy	\$105,000	\$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; Bull Trout	completed; Acquisition for protection completed; stewardship plan completed				feasibility study, design	\$160,000	Island County, Stillaguamish Tribe, Wild Fish 2012 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	5	Complete feasibility study and conduct public outreach	Chinook	Chum	Conceptual; initial historic condition and project scoping completed; ongoing hydrological monitoring	assessment and 30% design of preferred restoration alternative; outreach	Completion of study and final alternative \$160,000 analysis	\$50,00	o		Swan Lake Watershed Preservation Group; Skagit Fisheries Enhancement 2013 Group	\$210,000	\$25,000 SRFB; County; loca
County Club Lagoon	feasibility assessment of enhancing fish passage	A = 2 GA = 1 H = 1 P = 1	Reduced habitat function, access limite	nearshore ed embayments	Estuary or Nearshore	Study to improve feasibility of improving fish passage	Chinook	Chum	Conceptual; culvert upgraded and access improved		assessment of accessibility and feasibility	\$50,00	0		Tulalip; Island 2013 County	\$50,000	\$0 unknown
Crocket Lake camano Island State Park Pocket Estuary	feasibility assessment of enhancing tidal connectivity and fish passage improvement or internal hydrologic connectivity and	A = 2 GA = 3 H = 1 P = 1 A = 2 GA = 2	Loss of Habitat	nearshore embayments		Feasibility study to determine restoration potential	Chinook	Chum bull trout,	Conceptual		feasibility study	\$95,00	0 Design	\$75,000	Wild Fish Conservancy, SRSC; Seattle 2014 Lights Skagit River	\$170,000	\$0 SRFB, ESRP
Restoration Assessment	restoration of tidal connectivity	GA = 2 H = 1 P = 1	Loss of Habitat	nearshore embayments	Estuary or Nearshore	restore 4.4 acres of salt marsh habitat	Chinook	chum, forage fish	Feasibility assessment completed in 2010	Outreach			Outreach, 30% design	\$140,000	System Coop, 2016 WA State Parks	\$140,000 ?	unknown
Dugualla 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 completed by PSNERP		feasibility study	\$175,00	0 Design	\$125,000	Navy, SRSC, 2014 others	\$300,000 \$1,135,000	SRFB, ESRP, \$0 PSNERP, NAVY <mark>\$25,000</mark>
Habitat Protection	Projects designed to assess monitor, or participate in planning activities related to habitat protection. This includes monitoring.	'n															

Penn Cove and Admiralty Inlet Vearshore Water Quality Restoration	integrated protection planning, technical assistance and nearshore water quality remediation implementation	A = 1 $GA = 2$ $H = all$ $P = 2$	Degraded habitat; landowner permission	nearshore beaches	Estuary or Nearshore	91 acre subbasin water quality improvement perform landowner		bi-valves	Implemented	Seal design document, complete permitting protection and restoration plan,	Construction and beginning of \$200,000 monitoring feasibility assessment,		Monitoring, evaluating and reporting	\$100,000	SeaGrant, WA DOE, Russell Family Foundation, Town \$2,014 of Coupeville	\$760,000	IC MRC, IC Heal Department, Tov of Coupeville and US Parks \$127,000 (easement)
lorth Camano Nearshore Protection Project Jtsalady Bay focus area)	integrated restoration and protection planning, landowner outreach, & technical assistance	A = 1 GA = 1 H = all P = all A = 1	Loss of Habitat	nearshore beaches	Estuary or Nearshore	outreach, and assessment of priority habitats, sites, and properties	Chinook	Forage fish, Coho, chum	Data collection, WDFW policy researd	landowner outreach and technical ch assistance	landowner outreach and fundraising for \$75,000 acquisitions		Restoration feasibility assessment	\$85,000	MRC; Island 2015 County	\$235,000	\$10,000 MRC, NOAA, NW:
ynthesis of Geographic rea 1 Nearshore rotection Projects	evaluation of lessons learned through initial integrated protection projects	GA = 1 H = all P = all	Loss of Habitat	nearshore beaches	Estuary or Nearshore		Chinook		Conceptual	synthesis	\$25,000 synthesis	\$25,000	synthesis	\$25,000	MRC; Island 2012 County	\$75,000	\$0 unknown
land County SMP	Update of Shoreline	A = 1 GA = all H = all	Reduced Habitat		Estuary or	Review and update SMP incorporating BAS		Forage fish, Coho,		Complete draft	Adopt updated						
lpdate	Management Program	P = all	Capacity	nearshore nearshore,	Nearshore	and restoration plan	Chinook	chum	Ongoing wettand section	ordinance	\$200,000 SMP ordinance	\$200,000			2013 Island County	\$400,000 ?	DOE; Island Cou
sland County CAO FWHCA)	Update of Critical Area Regulations; Fish and Wildlife Habitat Conservation Areas	A = 1 GA = all H = all	Reduced Habitat Capacity	stream and riparian	Estuary or Nearshore;	Review and update CAO incorporating BAS	6 Chinook	fish, Coho, chum	complete; FWHCA section not begun		Review and update FWHCA	\$175,000	ID of		2013 Island County	\$175,000 ?	Island County; ?
sland County Owned learshore Protection Project	Review & update management plans for county owned lands ir and adjacent nearshore		Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore		Chinook	Forage fish, Coho, chum	Conceptual				properties, draft management plan review/	\$35,000	MRC; Island 2013 County	\$35,000	\$105,000 unknown
VRIA 6 State Owned learshore Protection rroject	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	Forage fish, Coho, chum	Conceptual				evaluation of state ownership & discussion w/ agencies review/ evaluation of	\$50,000	MRC; Island 2013 County	\$50,000	\$0 unknown
VRIA 6 Federally Owned learshore Protection Project	Review & evaluate management plans for federally owned lands in and adjacent to the nearshore	H = all P = all	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore		Chinook	Forage fish, Coho, chum	Conceptual				evaluation of state ownership & discussion w/ agency	\$50,000	MRC; Island 2013 County	\$50,000	\$0 unknown
Port Susan Marine Stewardship Area	Planning & creation of MSA to to promote stewardship and protection of the the marine and nearshore of Port Susan	GA = 1	Reduced Habitat Capacity	nearshore beaches	Estuary or Nearshore	Development of MSA plan in both Island and Snohomish Counties		Forage fish, salmonids, others	Ongoing	MSA planning and coordination	MSA planning and \$30,000 coordination	\$30.000			2013 MRC; Tulalip	\$60,000	
		1 – an	Оараску	beaches	Nearshore	Shohomish counties	Chinook	Utility	ongoing		400,000 Coordination	400,000				\$1,780,000	\$242,000
Watershed Plan mplementation & Coordination	Projects designed to increase the capacity of watersheds to implement the recovery plan.																funded: Lead En
VRIA 6 Salmon Lead	Lead Entity tasks, Recovery		Human					Salmonids,		LE operational	LE operational grant tasks,		LE operational grant tasks,				operational grant PSAR capacity fu NEP funds; Islan
Entity Coordinator Marine Resources	Chapter coordination	A=1	Resources	All	All		Chinook	forage fish	Ongoing	grant tasks, etc.	\$65,000 etc.	\$65,000	etc.	\$65,000 c	ongoing Island County	\$195,000	\$195,000 County
committee Coordination & taff	MRC coordination	A=1	Human Resources	All	Estuary or Nearshore				Ongoing	MRC coordination landowner outreach and	MRC \$40,000 coordination landowner outreach and fundraising for	. ,	MRC coordination landowner outreach and fundraising for	\$40,000 c	Island MRC; WSU ongoing Extension	\$120,000	funded: NW Stra \$116,000 Commission
VCLT - Protection Capacity Funding	Landowner outreach and fundraising for acquisitions	A=1	Human Resources	All	Estuary or Nearshore		Chinook		Ongoing	fundraising for acquisitions; LE participation stewardship	acquisitions; LE \$35,000 participation stewardship outreach, landowner	\$35,000	acquisitions; LE participation stewardship outreach, landowner	\$35,000 c	Whidbey Camano ongoing Land Trust	\$105,000	\$0 WCLT
onservation Dist rotection Capacity unding	Stewardship outreach, landowner technical assistance and LE participation	, A=1	Human Resources	All	LID, Upland Agriculture, and other				Ongoing	outreach, landowner technical assistance, and LE participation	technical assistance, and LE \$50,000 participation project review,	\$50,000	technical assistance, and LE participation project review,	\$50,000 c	Whidbey and Snohomish Conservation ongoing Districts	\$150,000	Mostly funded (Conservation \$0 Districts)
RSC - Protection Capacity Funding	project review, stewardship outreach, & LE participation	A=1	Human Resources	All	Estuary or Nearshore		Chinook		Ongoing; partially funded	project review, stewardship outreach, and LE participation	stewardship outreach, and LE \$35,000 participation		stewardship outreach, and LE participation	\$35,000 c	Skagit River System ongoing Cooperative	\$105,000	\$0 unknown

Marine Stewardship Area Signage	species evaluation of citizen knowledge	GA = all	Community Engagement Community Engagement		Estuary or Nearshore <i>All</i>	Marine Steward Areas as well as related nearshore features in context to flora, fauna and peoples. Report assessing community knowledge			Project data archiving Conceptual; initial report finalized 2009	Project data archiving	Install at least \$2,000 2 new signs follow-up	\$10,000 \$15,000	Install at least 2 new signs	\$10
Outreach & Education	Projects designed to increase outreach and education related to watershed health and salmon recovery.					MRC Installed Signs for Marino Stoward Aroas								
Planning and	programmatic evaluation of projects/programs and ecosystem functions	A=1	Human Resources	All	All		Chinook	other salmonids, forage fish	Early development locally	draft WRIA 6 draft monitoring and Adaptive Management Plan; regional engagement	Finalize local plans; regional template; \$20,000 implement		implement monitoring and adaptive management	
Shore Stewards	program coordination - newsletters, events,	A=1	Human Resources	All	Estuary or Nearshore				Ongoing	program coordination Development of	program \$28,000 coordination		program coordination	\$28
	project scoping & fundraising, data synthesis, presentations	A=1	Human Resources	All	Estuary or Nearshore		Chinook			project scoping & fundraising, data synthesis, presentations	project scoping & fundraising, data synthesis, \$15,000 presentations	\$15,000	project scoping & fundraising, data synthesis, presentations	\$15
	project scoping & fundraising, data synthesis, presentations	A=1	Human Resources	All	Estuary or Nearshore		Chinook			project scoping & fundraising, data synthesis, presentations	project scoping & fundraising, data synthesis, \$37,500 presentations	\$37,500	project scoping & fundraising, data synthesis, presentations	\$3
esearch Capacity	project identification, scoping, & fundraising; landowner technical assistance	A=2	Human Resources	All	Estuary or Nearshore		Chinook			scoping, & fundraising, landowner technical assistance	scoping, & fundraising, landowner technical \$20,000 assistance	\$20,000	scoping, & fundraising, landowner technical assistance	\$20
Stewards - Restoration	project identification, scoping, & fundraising; landowner technical assistance	A=2	Human Resources	All	Instream		Coho	Cutthroat		scoping, & fundraising, landowner technical assistance project id,	scoping, & fundraising, landowner technical \$15,000 assistance project id,	\$20,000	scoping, & fundraising, landowner technical assistance project id,	\$20
Stillaguamish - Restoration		A=2	Human Resources	All	Estuary or Nearshore		Chinook			project id, scoping, & fundraising, landowner technical assistance project id,	project id, scoping, & fundraising, landowner technical \$20,000 assistance project id,	\$20,000	project id, scoping, & fundraising, landowner technical assistance project id,	\$20
SRSC - Restoration	project identification, scoping, & fundraising; landowner technical assistance	A=2	Human Resources	All	Estuary or Nearshore		Chinook			project id, scoping, & fundraising, landowner technical assistance	project id, scoping, & fundraising, landowner technical \$20,000 assistance	\$20,000	project id, scoping, & fundraising, landowner technical assistance	\$20
MRC - Restoration	Project identification, scoping &	A=1	Resources Human Resources		Estuary or Nearshore		Chinook		Tunueu	participation project id and fundraising; LE participation	project id and fundraising; LE \$15,000 participation		project id and fundraising; LE participation	\$3: \$1:
Tulalip - Protection	project review, stewardship	A=1	Human	All	Estuary or Nearshore		Chinook		Ongoing; partially funded	project review, stewardship outreach, and LE	project review, stewardship outreach, and LE \$35,000 participation	-	project review, stewardship outreach, and LE participation	\$3
•	project review, stewardship outreach, & LE participation	A=1	Human Resources	All	Estuary or Nearshore		Chinook		Ongoing; partially funded	project review, stewardship outreach, and LE participation	project review, stewardship outreach, and LE \$35,000 participation	\$35,000	project review, stewardship outreach, and LE participation	\$3

\$35,000 ongoing	Stillaguamish Tribe	\$105,000	\$0	unknown
\$35,000 ongoing	Tulalip Tribes Marine Resources	\$105,000		unknown
\$15,000 ongoing	Committee	\$45,000	\$0	unknown
\$20,000 ongoing	Skagit River System Cooperative	\$60,000	\$0	unknown
\$20,000 ongoing	Stillaguamish Tribe	\$60,000	\$0	unknown
\$20,000 ongoing	Whidbey Watershed Stewards	\$55,000 ?		WWS Local contributions
\$20,000 ongoing	Tulalip Tribes	\$60,000	\$0	unknown
\$37,500 ongoing	Skagit River System Cooperative	\$112,500	\$0	unknown
\$15,000 ongoing	Wild Fish Conservancy IC Marine Resources	\$45,000	\$0	unknown
\$28,000 ongoing		\$84,000	\$0	IC MRC
ongoing	WRIA 6 TAG; Island County Lead Entity Staff	\$20,000 ? \$1,426,500	\$311,000	WRIA 6 - NEP; other unknown
\$10,000 ongoing	MRC & partners	\$22,000	\$20,000	NWSC (NOAA) via MRC
2013	Island County; Island County MRC	\$15,000	\$15,000	unknown

Shore Stewards Shoreline Landowner Workshops		A = 1 GA = all H = all P = all	Community	Estuary or Nearshore	2.2 workshops (voor	Chinook		Concontual	2 workshops	\$4,000 2 workshops	\$4.000	2 workshops
Deception Pass SP Salmon Outreach	develop educational materials and outreach events targeting	P = an A = 1 GA = 1 H = all	Engagement nearshore Community	Near shore	2-3 workshops/year	CHIHOOK		Conceptual	design, develop outreach	design, develop outreach	\$4,000	z workshops materials,
Campaign	park visitors	P = all	Engagement All	All		Chinook		Conceptual	materials	\$40,000 materials	\$40,000	activities
Site Specific Seining Results	Annual updates summarizing results of Beach Watchers juvenile salmon seining efforts	A = 1 GA = 2 H = 1 P = all	<i>Community</i> nearshore <i>Engagement</i> embayments	Estuary or Nearshore	Strategic seining to support education and outreach	Chinook		Seasonal monitoring, data collection, analysis and report writing	Seasonal monitoring, data collection, analysis and report writing	Seasonal monitoring, data collection, analysis and \$2,000 report writing		Seasonal monitoring, data collection, analysis and report writing
Watershed Stewardship Program	Educate shoreline residents on best practices	A = 2 GA = all H = all P = all A = 2	Community Engagement All	All	Shoreline of Island County (up to 1000 landowners)	all	all	Low-level member data collection, newsletters	Low-level member data collection, newsletters	Moderate level member data collection, \$9,000 newsletters		Moderate level member data collection, newsletters
Booklet: Salmon Swim Amongst Us	telling the story of salmon passing through Island County	GA = all H = all P = all A = 2	Community Engagement All	Estuary or Nearshore	Distribute strategically Maxwelton Classroom; serves 1600 students/yr; service- learning with middle school, high school,	Chinook		Design completed; printed 2011	Print	\$4,000		
K-12 School Programs	education about watershed and nearshore functions for salmon	GA = all	Community Engagement All	All	Scouts, and Community College students	Chinook, forage fish	other salmoni	Underway by sponsor	presentations	presentations, service \$15,000 learning		presentations, service learning
Sportfishing Outreach	outreach campaign to sportfish community at boat ramps &	GA = all H = all P = 2 A= 2	Community Engagement All	Estuary or Nearshore	Presentations at sportfishing events estaturist contact with willing landowners for restoration projects,			Conceptual	outreach	\$5,000 outreach	\$5,000	outreach
Glendale Watershed Education Program	education and outreach related to Glendale Watershed	GA = 2 H = 2 P = 3 A = 2	Community Engagement instream	Instream	improve public awareness, reduced non-point pollution Annual event anneu at awareness of community regarding	Chum	Chinook	contacts made, and watershed education program completed 2010	outreach, education program	\$15,000 presentations	\$5,000	presentations
Salmon awareness event	Annual community event to raise awareness of salmon use in Island County	A = 2 GA = all H = all P = all	Community Engagement All	All	salmon use and importance in ecosystem Document outlining			Conceptual	event	\$5,000 event	\$5,000	event
Communication Stratomy	Develop strategic plan to help in implementing communication activities in the watershed related to salmon recovery and improve knowledge and support	H = all	Community	All	strategic actions necessary to effectively make outreach to the community and build public support for actions necessary to		forage fish; other	Ongoing; plan development funded	Finalize strategy, lessons learned, and project development guidence	implement and		implement and
Communication Strategy	for salmon recovery	P = all	Engagement All	All	recover salmon	Chinook	salmonids	development Tunded	guidance	\$15,000 coordinate plan		coordinate plar
Instream Flow Protection	Projects designed to protect instream flows.											
NONE												
Project Monitoring	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	nearshore		1600 feet of shoreline monitoring for forage fish spawning	forage fish	salmonids	active pre-restoration monitoring	pre-restoration monitoring	Post- construction \$5,000 monitoring	\$5,000	Post- construction monitoring

\$4,000	ongoing	Island County; Shore Steward Program; Whidbey Watershed Stewards	\$12,000	\$6,000	local
\$40,000	2014	State Parks; MRC	\$120,000	\$0	unknown
\$3,000	ongoing	Island MRC, Beach Watchers	\$7,000	\$2,500	US EPA, Island County
\$20,000	ongoing	Island MRC	\$49,000 n/a		US EPA, Island County, WSU
	ongoing	Orca Network	\$4,000	\$0	unknown
\$15,000	ongoing	Whidbey Watershed Stewards, Fisheries Enhancement Groups, WSU Extension Island County; Lead	\$45,000	\$15,000	partially funded by CSF
\$5,000	ongoing	Entity staff	\$15,000	\$15,000	unknown
\$5,000	ongoing	Whidbey Watershed Stewards	\$25,000	\$5,000	Island County
\$5,000	ongoing	Whidbey Watershed Stewards; Orca Network	\$15,000	\$30,000	unknown
	ongoing	Island County; Whidbey Watershed Stewards,TAG	\$15,000 \$344,000	\$108,500	PSAR capacity; local
			\$0	#REF!	
\$5,000	2014	MRC, WDFW	\$15,000		WSU Beach Watchers

	pre and post restoration	A = 2 GA = 1									post-	Post-		MRC, WSU		
	monitoring of habitat and	H = 2				10 sites monitored at				pre-restoration	restoration	construction		Beachwatchers,		
	fish use	P = 2		nearshore			Chinook	chum, pink	active monitoring	monitoring	\$3,000 monitoring	\$3,000 monitoring	\$3,000		\$9,000	WSU, MRC
		A = 2								Seasonal	Seasonal	Seasonal				
VRIA 6 Eelgrass		GA = 1								monitoring, data collection,	monitoring, data collection,	monitoring, data collectio	<u>,</u>			
e e e e e e e e e e e e e e e e e e e	Countywide survey of	H = 2	Loss of		Estuary or	24 DNR segments per				analysis and	analysis and	analysis and	',			US EPA, Island
	eelgrass	P = 2	Habitat	nearshore	Nearshore		Chinook	Forage Fish		report writing	\$2,000 report writing	\$2,000 report writing	\$3,000	2016 ongoing	\$7,000	\$21,000 County
		A = 2				Monitor habitat and			Construction Completed. Habitat					Navy, University of		
ost-construction Ionitoring Crescent	post construction monitoring of	GA = 2	Loss of	nearshore	Estuary or	fish use in 200 acre			and Fish monitoring in	habitat and fich	habitat and fish	habitat and fi	ъ	Washington; Skagit River System Coop;		Partially Funded;
	habitat and fish use	P=1	Habitat	embayments			Chinook		progress	surveys	\$35,000 surveys	\$35,000 surveys	\$35,000		\$105,000	\$0 Navy
				, .		monitor habitat and					post-	post-				
		A = 2				fish use at			Pre-restoration	pre-	construction	construction		WCLT; SRSC;		
		GA = 1				approximately 15 acre			seining ongoing;	construction	monitoring	monitoring		Skagit Fisheries		
	pre and post restoration	H = 1	Loss of	nearshore		pocket estuary			restoration design	monitoring	(habitat &	(habitat &		Enhancement		
agoon Monitoring	monitoring	P = 1	Habitat	embayments	Nearshore	restoration site and	Chinook	trout	funded	(habitat & fish)	\$25,000 fish)	\$25,000 fish)	\$25,000	2015 Group; WSU	\$75,000	???
									Monitoring plan							
									completed;							
									Restoration permitting	}						
	wast samety setion	A = 2				Deet		Duill transiti	and final design		post-	post-				WCL
	post construction monitoring of habitat and	GA = 1 H = 1	Loss of	nearshore	Estuary or	Post construction/restoratio		Bull trout; Forage	completed; 1st phase construction		construction	construction				WSU beachwatchers.
onstruction monitoring	5	⊓ = 1 P = 1	Habitat	embayments	,	n at spit	Chinook	fish; Chum		monitoring (habitat & fish)	monitoring \$20,000 (habitat & fish)	monitoring \$20,000 (habitat & fisl) \$20,000	2015 Island County	\$60,000	Local, ?
g										(•••••	(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		\$271,000	\$21,000
															φ271,000	φ21,000
Stock Monitoring	Projects designed to															
	monitor stocks.															
									Data has been							
		A = 1							collected and is being synthesized; final							
	genetic identification of	GA = all							report to be	synthesis of all WRIA habitat and				Skosit Divor		
	distribution of stocks using	H = all			Estuary or				completed and	fish data; results				Skagit River System		funded: SRFB.
	WRIA 6 nearshore	P = all	NA	nearshore			Chinook		outreach	outreach	\$10,000			2011 Cooperative	\$10,000	\$140,000 SRSC, partners
Ŭ						monitoring Chinook in								i de la companya de l		
						Skagit Bay. Study										
	Intensively Monitored					area includes area										
	Watershed - assessment of distribution of out-migrating fish	A = 1				from Western edge of								Skagit River		Funded: NOAA, IM
		GA = 1				Deception Pass to								System		SRFB, Tribes. Paci
	nearshore areas of Skagit Bay,	H = all			Estuary or	Ponell Pt and across to				monitoring; data	monitoring;	monitoring;		Cooperative,		Salmon Treaty
istribution	including WRIA 6 nearshore.	P = aII	NA	nearshore	Nearshore	Utsalady.	Chinook		On-going	synthesis	\$200,001 data synthesis	\$200,000 data synthes	s \$200,000	2015 NOAA, WDFW ??	\$600,001	\$200,000 Research
										a a manufaction of						
										completion of synthesis of all						
		A = 1								WRIA habitat and						partially funded:
ort Susan and Saratoga		GA = 1,2							Final Report	fish data; results						Tribes, NOAA,
v	assessment of distribution of				Estuary or					outreach (related				Tribes, NOAA,		volunteers, SRFB,
almonid Distribution	out-migrating fish	P = all	NA	nearshore	Nearshore		Chinook		of result needed	to origins study)	\$5,000		(ongoing WSU Extension	\$5,000	\$150,000 MCF
										completion of						
										completion of synthesis of all						
		A = 1								WRIA habitat and						
dmiralty Inlet Nearshore/		GA = 2,3							Final Report	fish data; results						
		H = all			Estuary or				Completed; outreach	· · · · · · · · · · · · · · · · · · ·	AT 000			Tribes, NOAA, Wild		
	out-migrating fish	P = all	NA	nearshore	Nearshore		Chinook	Chum	of result needed	to origins study)	\$5,000			ongoing Fish Conservancy	\$5,000	\$0 unknown
	evaluation of predator/prey assessments done to date;										evaluation of					
	development of future scope of	A = 2			Estuary or						work to date;			Tribes, WDWF,		
	work	GA = 1,2	NA	nearshore	Nearshore		Chinook		Conceptual		scoping	\$20,000		2014 NOAA	\$20,000	\$0 unknown
	evaluation of predator/prey															
	assessments done to date;	A 0			Ectuary or						evaluation of					
	development of future scope of work	A = 2 GA = 2,3	ΝΔ	nearshore	Estuary or Nearshore		Chinook		Conceptual		work to date; scoping	\$20,000		Tribes, WDWF, 2010 NOAA	\$20,000	\$0 unknown
neractions ocuping	WOIN	GA - 2,3	/ 1/71	11001	1100 01 01 01 0		CHIHOUK		Conceptual		scoping	φ20,000			\$20,000 \$660,001	\$350,000
															φ000,001	φ330,000

and the second													
	Develop and test GIS based	l									fish sampling		
	model to identify small									Stream habitat	in streams,		
	coastal streams likely to									surveys,	watershed		
	have rearing juvenile					100% survey of WRIA				journal article	analysis,		
	salmon, conduct watershed					6 shoreline for small				publication,	provide		
	analysis on WRIA 6 streams					stream mouths,				outreach,	findings fo		
Small stream fish use	and, support inclusion of	GA = all	Limited			electrofish and habitat			Funded and initial	reference	use in CAO,		
in Island County and	study/project results into	H = 2	habitat			surveys for 40+		Coho,	field investigation	stream	SMP & SRP		
predictive modeling	SMP, CAO, and SRP.	P = 3	access	Instream	instream	streams.	Chinook	Cutthroat	begun	sampling	\$92,461 updates	<mark>\$92,462</mark>	
									Data collection	Draft			
	Initial survey of small								completed; findings	manuscript to			
	streams in WRIA's 4,5,6, &					Survey of 18 streams			presented at 2011	be completed	Findings		
	7, and collection of fish	GA = 1, 2				and collection of basic			Salish Sea Conf,	and submitted	published in		
Small stream non-natal	presence and stream	H = 2	Habitat			stream habitat		Coho,	manuscript is being	to scientific	scientific		
fish use	surveys.	P = 3	access	Instream	Instream	information	Chinook	Cutthroat	drafted for publication	journal	\$15,000 journal	\$15,000	
						Study will collect data from several different							
		A = 2				Puget Sound locations		salmonids,					
Puget Sound Shoreline	Improve understanding and	A = 2 GA = all				over several years to		forage fish,					
Armoring Impacts to	ability to quantify impacts of shoreline armoring to nearshore		Reduced Habitat			help understand		other	Funded; data				
Nearshore Ecology and shoreform	ecology	P = 1		shoreline	Nearshore	impacts of armoring on	Chinook	nearshore species	collection and	sampling;	\$50,000 sampling;	\$75,000	
	coology		Ouplacity	Shoreline	Nearshore	impacts of armoring on	OTHINOOK	Species		Sampling,	450,000 Sampling,	φ 1 0,000	
Other													
Total Non-Capital													
Need:													
Priority													
Projects and													
Programs													
Benefiting Non-													
Listed Species													
										baseline and	baseline and		
		A = 2			Mator				ongoing monitoring	source	source		
	baseline monitoring of streams				Water Quality				ongoing monitoring -	identification	identification		
	and lakes; source id monitoring of streams with impairments	H = 2 P = 3	Water Quality	instroom		t Continued monitoring			in 5th year of baseline study	monitoring	water quality \$250,000 monitoring		
	or streams with impairments	F = 3	Water Quality	Instream	mprovemen	t continued monitoring			study	monitoring		©250 000	
		A = 2							Ongoing: annual		\$230,000 monitoring	\$250,000	
	May survey of juvenile Coho in	A = 2 GA = 2							Ongoing; annual outmigration survey of		\$250,000 monitoring	\$250,000	
	May survey of juvenile Coho in Maxwelton/Quade Creek								Ongoing; annual outmigration survey of Coho in			\$250,000	
Vaxwelton Smolt Counts	Maxwelton/Quade Creek	GA = 2	NA	instream	Instream	Ongoing survey	Coho	Cutthroat	outmigration survey of	monitoring	\$3,000 monitoring		nonitoring
Maxwelton Smolt Counts	Maxwelton/Quade Creek	GA = 2 H = 2 P = 3 A = 2	NA	instream	Instream		Coho	Cutthroat	outmigration survey of Coho in	monitoring		\$5,000 n	U
	Maxwelton/Quade Creek	GA = 2 H = 2 P = 3 A = 2 GA = 2		instream	Instream	Report prepared;	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek	monitoring	\$3,000 monitoring spawner	\$5,000 n s	pawner
Follow-up Monitoring	Maxwelton/Quade Creek system	GA = 2 H = 2 P = 3 A = 2 GA = 2 H = 2	Loss of			Report prepared; monitoring fish			outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for		\$3,000 monitoring spawner surveys, gate	\$5,000 n s s	spawner surveys, gate
Follow-up Monitoring	Maxwelton/Quade Creek system	GA = 2 H = 2 P = 3 A = 2 GA = 2 H = 2 P = 3	Loss of Habitat	instream instream	Instream Instream	Report prepared;	Coho Coho	Cutthroat Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek	monitoring spawner surveys	\$3,000 monitoring spawner	\$5,000 n s	spawner surveys, gate
Follow-up Monitoring	Maxwelton/Quade Creek system	GA = 2 H = 2 P = 3 A = 2 GA = 2 H = 2 P = 3 A = 2	Loss of Habitat Riparian			Report prepared; monitoring fish			outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for		\$3,000 monitoring spawner surveys, gate	\$5,000 n s s	spawner surveys, gate
Follow-up Monitoring Maxwelton Creek Tidegate	Maxwelton/Quade Creek system	GA = 2 H = 2 P = 3 A = 2 GA = 2 H = 2 P = 3	Loss of Habitat			Report prepared; monitoring fish			outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for		\$3,000 monitoring spawner surveys, gate	\$5,000 n s \$1,000 s	spawner surveys, gate
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek	Maxwelton/Quade Creek system Coho spawner surveys	GA = 2 H = 2 P = 3 A = 2 GA = 2 H = 2 P = 3 A = 2 GA = 2 H = 2 P = 3	Loss of Habitat Riparian Areas and LWD Recruitment			Report prepared; monitoring fish		Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12	spawner surveys	\$3,000 monitoring spawner surveys, gate \$1,000 survey	\$5,000 n s \$1,000 s	spawner surveys, gate survey
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting	$\begin{array}{l} {\sf GA}=2\\ {\sf H}=2\\ {\sf P}=3\\ {\sf A}=2\\ {\sf GA}=2\\ {\sf H}=2\\ {\sf P}=3\\ {\sf A}=2\\ {\sf H}=2\\ {\sf P}=3\\ {\sf A}=2\\ \end{array}$	Loss of Habitat Riparian Areas and LWD Recruitment Riparian	instream	Instream	Report prepared; monitoring fish use/returns	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase	spawner surveys	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian	\$5,000 n s \$1,000 s	spawner surveys, gate survey
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along	$ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 1 $	Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and	instream	Instream	Report prepared; monitoring fish use/returns Replace culvert	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting;	spawner surveys	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian	\$5,000 n s \$1,000 s	spawner surveys, gate survey
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD	instream riparian	Instream Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance	spawner surveys riparian maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance	\$5,000 n s \$1,000 s \$10,000 n	pawner uurveys, gate aurvey iparian naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along	$ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 1 $	Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment	instream	Instream	Report prepared; monitoring fish use/returns Replace culvert	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting;	spawner surveys	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian	\$5,000 n s \$1,000 s \$10,000 n	spawner surveys, gate survey
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered	instream riparian	Instream Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance	spawner surveys riparian maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance	\$5,000 n s \$1,000 s \$10,000 n	pawner uurveys, gate aurvey iparian naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm	$ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 1 \\ H = 2 \\ P = 2 \\ $	Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream	instream riparian riparian	Instream Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance	spawner surveys riparian maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance	\$5,000 n s \$1,000 s \$10,000 n	pawner uurveys, gate aurvey iparian naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on	$ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 1 \\ H = 2 \\ P = 2 \\ A = 2 \\ A = 2 $	Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered	instream riparian riparian	Instream Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance	spawner surveys riparian maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance	\$5,000 n s \$1,000 s \$10,000 n 4000 n	pawner uurveys, gate aurvey iparian naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns	instream riparian riparian	Instream Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance	spawner surveys riparian maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance	\$5,000 n s \$1,000 s \$10,000 n 4000 n	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered	instream riparian riparian	Instream Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase	spawner surveys riparian maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project	\$5,000 n s \$1,000 s \$10,000 n 4000 n s	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution		Loss of Habitat Riparian Areas and LWD Recruitment Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream	instream riparian riparian riparian	Instream Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase	spawner surveys riparian maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project	\$5,000 n s \$1,000 s \$10,000 n 4000 n s	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Island County Water Typing	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St	instream riparian riparian riparian	Instream Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase	spawner surveys riparian maintenance maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project	\$5,000 n s \$1,000 s \$10,000 n 4000 n s	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Sland County Water Typing Drainage mapping and	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow	instream riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual	spawner surveys riparian maintenance maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project development	\$5,000 n s \$1,000 n \$10,000 n 4000 n \$5,000 n	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Sland County Water Typing Drainage mapping and	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St	instream riparian riparian riparian	Instream Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase	spawner surveys riparian maintenance maintenance	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project	\$5,000 n s \$1,000 s \$10,000 n 4000 n s	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Island County Water Typing Drainage mapping and	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing hydrography data layers; field verification	$ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 1 \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A =$	Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow	instream riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County Remove fish passage	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual	spawner surveys riparian maintenance maintenance field verification of stream outlets design & permitting of	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project development	\$5,000 n s \$1,000 n \$10,000 n 4000 n \$5,000 n	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Island County Water Typing Drainage mapping and <i>v</i> erification	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing hydrography data layers; field verification	$ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 1 \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = 2 \\ A = 2 \\ A = 2 \\ GA = 2 \\ A = 2 \\ A = 2 \\ A = 2 \\ GA = 2 \\ A = 2 \\ A = 2 \\ GA = 2 \\ A = 2 \\ A = 2 \\ GA = 2 \\ A =$	Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns	instream riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County Remove fish passage barrier, providing	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual ongoing	spawner surveys riparian maintenance maintenance field verification of stream outlets design & permitting of Wildes Rd.	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project development \$20,000 field verification	\$5,000 n s \$1,000 n \$10,000 n 4000 n \$5,000 n	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Island County Water Typing Drainage mapping and verification	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing hydrography data layers; field verification replacement of fish passage barriers identified in 2005 creek	$ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 2 \\ H = 2 \\ P = 3 \\ A = 2 \\ GA = 1 \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = all \\ H = 2 \\ P = 2 \\ A = 2 \\ GA = 2 \\ H $	Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns	instream riparian riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County Remove fish passage barrier, providing passage to upper 2	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual ongoing conceptual; landowner	spawner surveys riparian maintenance maintenance field verification of stream outlets design & permitting of Wildes Rd. culvert	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance groject development \$20,000 field verification Final design,	\$5,000 n \$1,000 s \$10,000 n \$5,000 n \$20,000	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Island County Water Typing Drainage mapping and verification	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing hydrography data layers; field verification		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns	instream riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County Remove fish passage barrier, providing passage to upper 2 miles of stream habitat	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual ongoing	spawner surveys riparian maintenance maintenance field verification of stream outlets design & permitting of Wildes Rd.	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project development \$20,000 field verification	\$5,000 n s \$1,000 n \$10,000 n 4000 n \$5,000 n	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Island County Water Typing Drainage mapping and verification Maxwelton Watershed Fish Passage Culverts	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing hydrography data layers; field verification replacement of fish passage barriers identified in 2005 creek		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns	instream riparian riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County Remove fish passage barrier, providing passage to upper 2	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual ongoing conceptual; landowner willing	spawner surveys riparian maintenance maintenance field verification of stream outlets design & permitting of Wildes Rd. culvert	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance groject development \$20,000 field verification Final design,	\$5,000 n \$1,000 s \$10,000 n \$5,000 n \$20,000	pawner uurveys, gate aurvey iparian naintenance naintenance
Follow-up Monitoring Maxwelton Creek Tidegate Quade Creek Enhancement Kristoferson Farm Riparian Restoration Island County Water Typing Drainage mapping and verification Maxwelton Watershed Fish Passage Culverts Maxwelton Watershed	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing hydrography data layers; field verification replacement of fish passage barriers identified in 2005 creek		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns	instream riparian riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County Remove fish passage barrier, providing passage to upper 2 miles of stream habitat restore riparian	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual ongoing conceptual; landowner willing completed; ongoing	spawner surveys riparian maintenance maintenance field verification of stream outlets design & permitting of Wildes Rd. culvert replacement	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance project development \$20,000 field verification Final design, \$45,000 construction	\$5,000 n \$1,000 s \$10,000 n \$5,000 n \$20,000	pawner uurveys, gate aurvey iparian naintenance naintenance
Typing Drainage mapping and verification Maxwelton Watershed Fish Passage Culverts Maxwelton Watershed Fish Passage Culverts	Maxwelton/Quade Creek system Coho spawner surveys culvert replacement and riparian planting riparian planting along Kristoferson Creek on Kristoferson Farm Field survey of stream habitat to ground truth DNR fish distribution evaluation of existing hydrography data layers; field verification replacement of fish passage barriers identified in 2005 creek		Loss of Habitat Riparian Areas and LWD Recruitment Riparian Areas and LWD Recruitment Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns Altered Stream Morphology/St ream Flow Patterns	instream riparian riparian riparian	Instream Riparian Riparian Riparian	Report prepared; monitoring fish use/returns Replace culvert restore vegetative stream buffer determine water type classification in watersheds in Island County Remove fish passage barrier, providing passage to upper 2 miles of stream habitat restore riparian habitat, enhance	Coho	Cutthroat	outmigration survey of Coho in Maxwelton/Quade Creek ongoing; completed for 2007-12 Completed; now in maintenance phase Completed planting; now in maintenance phase conceptual ongoing conceptual; landowner willing	spawner surveys riparian maintenance maintenance field verification of stream outlets design & permitting of Wildes Rd. culvert	\$3,000 monitoring spawner surveys, gate \$1,000 survey riparian \$10,000 maintenance \$4,000 maintenance groject development \$20,000 field verification Final design,	\$5,000 n \$1,000 s \$10,000 n \$5,000 n \$20,000	pawner uurveys, gate aurvey iparian naintenance naintenance

					funded DOE, DEP
	2014	Tulalip, SRSC	\$184,923	\$65,640	grant
	2013	Tulalip, SRSC	\$30,000		EPA/NWIFC
	2013	Tulanp, Site	\$30,000		
	2015	SRSC,	\$125,000		SeaGrant; WDFW
			\$339,923	\$0	
				#DEEL	
			\$5,616,501	#REF!	
					funded: county, WA
	ongoing	Island County	\$500,000	\$750,000	
		Whidbey Watershed			
\$5,000	ongoing	Stewards	\$13,000	\$6,000	WWS Local contributions, MRC
		Whidbey Watershed			
\$1,000	2012	Stewards; Wild Fish Conservancy	\$3,000	\$6,000	WWS local contributions, MRC
		Whidbey			Community Salmon
\$10,000	2012	Watershed Stewards	\$30,000	\$10.000	Fund, Whidbey Watershed Stewards
••••••				••••	
\$4,000	2015	Landowner	\$12,000	¢0 000	funded: ???
Φ 4,000	2015	Landowner	\$12,000	\$0,000	
		Wild Fish			
\$90,000	2013	Conservancy; Island County	\$95,000	\$0	unknown; SRFB
	2013	Tulalip Tribes Island County	\$40,000	\$0	NWIFC
		Public Works,			
	004-	Whidbey Watershed	\$005 000	#05 000	
	2015	Stewards	\$295,000	\$85,000	unknown
		Whidbey Watershed			
	2015	Stewards	\$8,000	\$4,000	unknown

ents $H = 2$ P = 2 A = 2 GA = 1 H = 2 P = 2 A = 2 GA = 2 GA = 2 to $H = 2$ P = 3	= 2 Hab = 2 A = 1 Red = 2 Hab = 2 Cap = 2 A = 2 Red	it instream ed it sity instream ed	Instream Instream	replacement of culvert in fish bearing stream Replace partially blocking culvert address restoration of			conceptual/planned Design partially completed; funding		riparian planting	\$40,000			2012 Landowner	\$40,000	\$0 FFFAA
A = 2 $GA = 1$ $H = 2$ $P = 2$ $A = 2$ $GA = 2$ to $H = 2$	= 2 A = 1 Red = 2 Hab = 2 Cap = 2 A = 2 Red	ed it sity instream sed		Replace partially blocking culvert			Design partially		planting	\$40,000			2012 Landowner	\$40,000	\$0 FFFAA
$\begin{array}{c} {\rm GA}=1\\ {\rm H}=2\\ {\rm P}=2\\ {\rm A}=2\\ {\rm GA}=2\\ {\rm to} {\rm H}=2 \end{array}$	A = 1 Red = 2 Hab = 2 Cap = 2 A = 2 Red	it ity instream ed	Instream	blocking culvert			0 1 9								
H = 2 $P = 2$ $A = 2$ $GA = 2$ to $H = 2$	= 2 Hab = 2 Cap = 2 A = 2 Red	it ity instream ed	Instream	blocking culvert			0 1 9								
P = 2 $A = 2$ $GA = 2$ to $H = 2$	= 2 Cap = 2 A = 2 Red	city instream	Instream	blocking culvert			completed; funding								
A=2 $GA=2$ to $H=2$	= 2 A = 2 Red	ced	Instream						design and						
to H = 2							sought Early engineering		permitting	\$25,000 con	struction	\$85,000	2013 Island County	\$110,000	\$17,000 unknown
	= 2 Hab			lower 1 mile of stream			design work		Design/Permitti				Island County		
		IT		caused during flood	Coho;		completed;		ng;	con	struction;		Public Works;		
r = 3	= 3 Cap	ity instream	Instream	event	Chum	Cutthroat	conceptual		construction	\$400,000 Mor	nitoring	\$200,000	2011 Tulalip	\$600,000 ?	unknown; SRFB
A = 2 GA = 2			Water	Penn Cove sub-basin I adjacent to Coupeville			Completing final	Seal design document,	Construction and	Mor	nitoring,		SeaGrant, WA DOE, Russell Family		SeaGrant, WA DOE, Russell
H = 2			Quality	waste water	Chinook	shellfish	design, beginning	complete	beginning of	eva	aluating		Foundation, Town		Family Foundation,
P = 2 A = 2	= 2 Wat	Quality nearshore	e Improvemer	nt treatement plant	Salmon	beds	permitting	permitting	\$200,000 monitoring	\$460,000 and	d reporting	\$100,000	2014 of Coupeville	\$760,000	\$173,000 Town of Coupeville
GA = 1	A = 1 Red	ed		Improve fish passage					Instream and						
n; H = 2			instream;	and restore native					riparian						
P = 3 A = 2		ity riparian	riparian	riparian vegetation Improve fish passage	cutthroat	chinook	conceptual		restoration	\$25,000			20120 Tulalip; SCD	\$25,000	unknown
		ed		and maintenance					design and						
				requirements of	Coho;								Tulalip; Island		
			Instream	existing culvert	cutthroat	chinook	conceptual		contruction	\$100,000			2010 County	\$100,000	unknown
A = 2 GA = 2 fish H = 2	A = 2 = 2	Habita	Reduced Habitat Capacity instream	Habitat	Reducedand maintenanceHabitatrequirements of	Reducedand maintenanceHabitatrequirements ofCoho;	Reducedand maintenanceHabitatrequirements ofCoho;	Reducedand maintenanceHabitatrequirements ofCoho;	Reducedand maintenanceHabitatrequirements ofCoho;	Reducedand maintenancedesign andHabitatrequirements ofCoho;permitting;	Reduced and maintenance design and Habitat requirements of Coho; permitting;	Reduced and maintenance design and Habitat requirements of Coho; permitting;	Reduced and maintenance design and Habitat requirements of Coho; permitting;	Reduced and maintenance design and Habitat requirements of Coho; Capacity instream Instream existing culvert cutthroat conceptual conceptual conceptual contruction \$100,000 2010	Reduced and maintenance design and Habitat requirements of Coho;

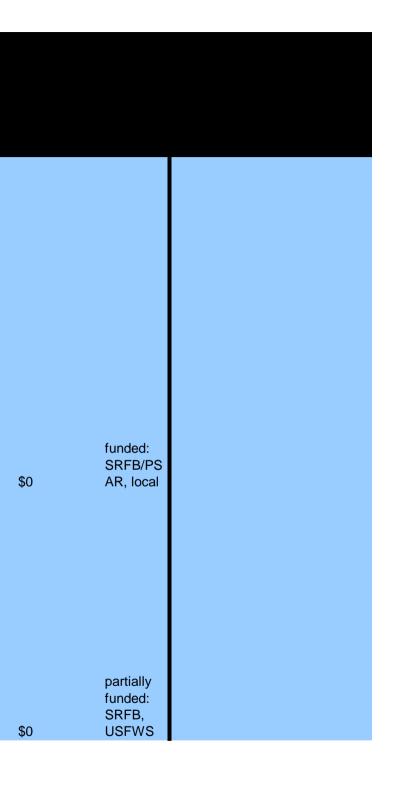
Newly added projects (YELLOW) Active projects (significantly funded) (GREEN) Completed projects (BLUE)

Habitat		-		
Tabitat	на	nı	га	т
	па	νı	ιa	L

Acquisition for

Х

restoration									
						Acquire			
						high			
						priority			
						nearshor			
						e for			
						protectio			
	protection					n and			
	of high					future			
	priority nearshore					restorati			
	on NE					on;			
	Whidbey					potential			
	in Skagit					of up to			
	Bay;					approx.			
	provide				Land	30 acres			
***COMPLETE	potential				Protecte	of			
D - 2009***	for	A = 1		nearshor	d,	nearshor			Whidbey
Skagit Bay	nearshore		Reduced	е	Acquired	e could			Camano
Nearshore	restoratio	H = 1	Habitat	embaym	, or	be		Acquisition	Land
Protection	n	P = 1	Capacity	ents	Leased	restored	Chinook	completed	2009 Trust
						Acquisiti			
						on of			
						approxi			
						mately			
						40 acres			
						nearshor			
						е			
	protection					containi			
	for future				Land	ng 10			
COMPLETE D - 2009	restoratio			nearshor		acre			
Livingston Bay	_ n of high priority	A = 1		e habitat		pocket			The
Nearshore	nearshore			and	Acquired	-			Nature
Acquisitions &	in N Port		Loss of	embaym	-	for		Acquisition	Conserva
Restoration	Susan	н=1 Р=1	Habitat	ents	Leased	restorati	Chinook	completed	2009 ncy
	ousan		Παρπαί	CIIIS	Leased	restorati	CHIHOOK	completed	2003 1109



	Future Habitat Project Developme nt									
x	***COMPLETE D - 2009*** Skagit Basin Nearshore Assessment	projects. habitat and process assessme nt of 10 WRIA 6 Skagit Bay pocket estuaries	A = 2 GA = 1 H = 1 P = 1	Loss of Habitat	nearshor e embaym ents	Estuary or Nearshor e	Report/a ssessme nt 10 Skagit Bay Pocket Estuarie s	Chinook	Data collection completed; Report completed	Skagit River System Cooperati 2009 ve
×	***COMPLETE D - 2010*** Possession Beach Feasibility D - 2010*** Lowell Point Feasibility - Camano St. Pk	feasibility assessme nt of pocket estuary restoratio n options assessme nt of pocket estuary	A = 2 GA = 2 H = 1 P = 1	Loss of Habitat Loss of Habitat	ents nearshor e	Estuary or Nearshor e Estuary or Nearshor e	potential Feasibilit y study		Completed 2009: Feasibility study Feasibility study completed	Skagit River System Cooperati ve; S. Whidbey 2010 Port River System Cooperati 2010 ve; State

\$0	funded: SRFB, SRSC	
\$0	funded: Swinomis h & \$40,000 Lummi	
\$0	funded: Swinomis h & \$40,000 Lummi	

	Habitat Protection	Projects designed to assess, monitor, or participa te in planning activities related to habitat protectio n. This includes monitori ng.							
x	<u>***COMPLETE</u> <u>D - 2009***</u> Strawberry Point Nearshore Protection Project	integrated protection planning, landowner outreach, A = 1	Loss of Habitat	nearshor e beaches	Nearshor	educatio n/outrea ch, protectio n planning , and technical assistan ce in priority nearshor e area	Chinook	Completed March 2010	Island County ; Whidbey Conservat ion 2009 District

	Research							
???	Puget Sound Hydrodynamic Model	current	GA = all H = all	NA	nearsho re	Estuary or Nearshor e	Chinook	PNNL Battelle, 2009 Tribes
????	Camano Forage Fish Study 2007- 08		A = 1 GA = 1,2 -H = 2	Reduced Habitat Capacity	е	Nearshor	Chinook	2008 WDFW

\$0	\$5,000	funded: SRFB	
\$0 ?		partiany funded: tribes, NW Straits Commiss ion, ?	
¢ o o		funded:	
\$0 <mark>?</mark>		WDFW	I

	Whidbey	monitori	A = 1			Estuary	
	Forage Fish	ng of	GA = aII	Reduced	nearshor	or	
	Study 2008-	beach	H = 2	Habitat	е	Nearshor	
???	2011	sites	P = aII	Capacity	beaches	е	Chinook

funded: USGS

\$0 **?**