**Project Background for WRIA 13 and WRIA 14 RITT Review**

**WRIA 13:**

This year, the WRIA 13 Salmon Habitat Recovery Committee had enough funds to fully fund their project list, using a combination of SRFB and PSAR capital funds. Each of the projects has been under development for several years, under the direct oversight and direction of the Lead Entity committee. In 2010, the WRIA 13 and WRIA 14 TAG’s created the Juvenile Salmonid Nearshore Project Selection Tool (Tool). Integrating existing assessments, studies and the repository of knowledge the TAG represents, the Tool provides guidance on where the highest priority sites exist for both protection and restoration activities within the entire nearshore of both LE areas. Even with the fine sieve the Tool created, much of the nearshore continued to be a high priority for both actions. Therefore, the TAG gathered to overlay existing projects, parcel size, and the first iteration of a plan that protects sediment sources such as bluff-backed beaches and restores pocket estuaries. The work the TAG has undertaken was funded by the 2007-2009 and 2009-2011 PSAR capacity funds, which were concentrated on the creation of the GIS tool and additionally into the creation of MOA’s with each TAG member organization to fund the time and travel of that TAG member. This new tool gives the LE and the sponsors a parcel-by-parcel look at areas that are of the highest benefit for juveniles in WRIA 14. Previously, all nearshore habitat had been classified as high priority, limiting effective prioritization. Using this new tool, the highest priority can be easily identified for the entire WRIA (and surrounding WRIA) for either restoration or acquisition and the Committee can then decide what areas are the most important to strategically focus on first. The sponsors can then focus their outreach efforts to those parcels and the ones surrounding them, working diligently to garner landowner support for these important projects.

**Little Fishtrap Estuary Acquisition:** This project site has been a high priority area for both conservation and restoration since before 2004. In 2006, it was proposed for restoration (06-2219R). The original spit orientation and function was modified in the early 1940’s when the landowners filled in the historical stream and side channel. This modification changed the littoral sediment drift along the spit and pocket estuary and sediment instead began to fill in the estuary while starving down-drift forage fish beaches. This first project was highlighted as a “wow” project by the SRFB Review Panel but the project did not proceed as the adjacent landowners (where no restoration was taking place, the existing landowners sought their support only) did not support the project. In the fall of 2012, the landowner passed away and his heirs contacted Capitol Land Trust (CLT) with an interest in selling and conserving the property. The Lead Entity was apprised of the situation and fully supported CLT in an application for PSAR large capital funds, Thurston County Conservation Futures funds, SRFB funds, etc. While this project (13-1265) did not score in the allocation with PSAR at $70 million, it remains a priority project for WRIA 13 and South Sound. To date, the project has received $473,114 from WRIA 13 and a minimum commitment of $305,000 from TC Conservation Futures. Once the property is purchased, funds will be raised to complete the restoration of the estuary and spit. The project (as both conservation and restoration) has been represented on every South Sound 3-year-work-plan update since we began creating them in 2007.
Burfoot Park Bulkhead Removal: Beginning in 2004, the Lead Entities in both 13 and 14 began to focus on bulkhead removals. To garner support, give private landowners something to see, build experience with local contractors and the project sponsor, both LE’s decided to begin first with publically owned bulkhead removals. By leading by example, the first projects were in Thurston County, at Frye Cove County Park. Since that time, we have identified and removed bulkheads in Priest Point Park, on WDFW property in Case Inlet, a bulkhead on Squaxin Island, two private residences / communities, and another bulkhead is planned on Hammersley Inlet. Work with the Thurston County Parks board on the Burfoot bulkhead began in 2008 and with the help and support of the Squaxin Island Tribe and the TC Commissioners, the bulkhead is funded and will go to construction in 2014. Another private bulkhead removal on Eld Inlet is under development, with another funded. Preliminary designs for this project are complete and were provided from the 2009 SRFB project development grant (09-1567P).

The overall project area has been rated as high priority- protect for forage fish spawning and high priority- restore for sediment source restoration according to the Chinook Recovery Plan for South Sound. The document also notes that the entire area is a Critical Faunal Area and notes that Burfoot Park is relatively intact. In addition, in the PSNERP- Nearshore Protection & Restoration Strategy, the current and historical shoreform types are listed as a bluff backed beach (which exists at Burfoot). The Beach strategy for the site is Restore.

Frank’s Tidelands Design and Assessment: The impendence for this project came from extensive assessment work completed by the Squaxin Island Tribe with the cooperation and funding from the Budd Inlet Council of Governments, with funding passed through WSU Extension, beginning in 2007. In Budd Inlet, the Tribe broke the nearshore into catchment basins and from that, developed an action plan that lead to targeted project identification, the Budd Inlet Landscape Analysis. They identified several hundred individual projects, then presented them at the South Sound Salmon Symposium and asked the participants to assist in ranking them. This site was highly ranked for a variety of reasons. In December, 2012, DNR removed creosote and overwater structures as the first stages of this project.

The restoration is located in a priority habitat area as identified by the Juvenile Salmonid Nearshore Project Selection Tool (NPST) model. Beneficial habitat types found in the unit include: submerged vegetation, located in a SSHIAP embayment, proximity to a Tier 1 salmon stream (Deschutes). One priority salmonid bearing stream empties into the proposed area. The site is also within proximity to a non-salmonid bearing stream. Franks Tidelands is identified as a high priority pocket estuary/embayment. Stressors identified include riparian loss, shoreline armoring, railroad and overwater structures (since removed). The site represents the northern end of a 1.1 mile nearshore priority area associated with the west side of lower Budd Inlet. Multi-year beach seining has been conducted by the Squaxin Island Tribe just south of the site within West Bay. This unit is hypothesized to provide high quality foraging opportunities for salmon out-migrating from natal streams located in the lower Inlet. It is also hypothesized that the non-salmon steams adjacent to the site provide low energy refugia opportunities for juvenile salmonids particularly juvenile Chinook migrating to the site from outside of South Puget Sound. Previous design work on site, completed via the WRIA 13 Project Development Grant (09-1567P), produced concept designs to the 30% level. This grant will take those designs to complete and then funding will be sought for the project.
WRGIA 14:

**Oakland Bay Estuary Conservation, Phase III:** This project is a top priority project for all of South Sound and was identified specifically in the Action Agenda update that this area submitted to PSP. In 2005, the Lead Entity identified five large, intact parcels within Oakland Bay to protect, this site being one of those parcels. Since that time, we have protected four of the five – only this parcel remains. The project site is identified in the following documents: WRIA 14 3-Year Work Plan; “Strategies for Nearshore Protection and Restoration in Puget Sound” PSNERP Technical Report No. 2012-01; “Chinook & Bull Trout Recovery Approach for the South Puget Sound Nearshore” South Puget Sound Salmon Recovery Group, 2005; “WRGIA 14 Watershed Management Plan, Kennedy – Goldsborough Watershed” Final Draft, 2006.

**Johns Creek LWD and Riparian Restoration:** This project was initiated through the WRIA 14 3-Year Workplan Project Development grant (09-1568), designing to the preliminary design stages for this project. The Squaxin Island Tribe’s EDT Analysis of Habitat Potential and Restoration Options for Coho in South Puget Sound Streams recommends these actions in this reach of Johns Creek. This study was completed in 2004 and it lists the addition of large wood (>10 cm diameter) throughout the watershed under the 5-year scenario and continued addition of large wood as well as riparian restoration throughout the mainstem under the 25-year scenario. The Salmon Habitat Protection and Restoration Plan for Water Resource Inventory Area 14 also lists these actions as high priority habitat projects. This plan calls for restoration and preservation of the riparian corridor to provide shade, stabilize streambanks and recruit LWD. This plan also suggests increasing LWD key piece abundance to encourage pool formation.

**Edgewater Beach Nearshore Project:** This project is a flagship bulkhead removal for South Sound. Rare is the opportunity to remove over 800 contiguous feet of bulkhead on any property, particularly on private property. This bulkhead was identified in the very first 3-YWP as a priority and is rated as a high priority for restoration within the NPST for its benefit to forage fish, and presence of a feeder bluff. It is likely to also receive funding from ESRP as the project rates highly for that process as well as within the PSNERP Strategies for Nearshore Protection and Restoration in Puget Sound report.

**Knotweed Assessment in Mill and Goldsborough Creeks:** This project is the next iteration, following up on a riparian assessment Mason Conservation District conducted 2008-2011 with DOE Centennial funding that identified priority sites in WRIA 14, and SRFB project (11-1557) to design and implement five restoration plans. The LE has worked extensively in Goldsborough, developing an Action Plan in 2007 for that watershed and then taking a step-wise approach to implementing the components of that plan. In Mill creek, little is known and there are many water quality issues that the TAG would like to begin to address.

**Collier Boat Ramp and Jetty Removal:** The project helps fulfill two Puget Sound Partnership ecosystem recovery targets. The first target addresses removal of shoreline armoring. The boat launch is not acting as armoring; however, we interpret the Partnership goal, at least partly, to mean addressing sediment input and transport issues. The second goal is designed to increase the spawning biomass of the Squaxin
Pass stock by 880 tons by 2020. This is the only project that has been identified that could meaningfully address this goal.

The Puget Sound Nearshore Ecosystem Restoration Project’s (PSERP) *Strategies for Nearshore Protection and Restoration in Puget Sound* report provides a recommendation of *Restore High* for the drift cell. The report calls out the unit as being “notably large and complex” with only moderate sediment supply degradation and assigns the unit a degradation grouping of D13. Notably the PSERP document states the drift cell has a moderate amount of stressors but lists no threat from jetty influence.

**WRIA 14 Culvert Assessment:** The rationale for this project comes from success. The WRIA 14 culvert inventory was completed back in 2003 and the list of the top 20 culvert projects has been completed or is in process. In the ten years that has passed since its publication, the passability of culverts has changed, primarily degraded in most instances due to changes in watershed composition or development. Individuals out in the streams doing various works have noted barriers where previously there were none or to a lesser degree. This project intends to bring together a stakeholder group comprised of the TAG and watershed partners to determine the best path forward to determine the current status of culverts within the WRIA.
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**Note:** This table provides a summary of projects planned for the 2013-2015 Three-Year Watershed Implementation Priorities for WRIA's 13 and 14, Deep South Sound. Each project is categorized by its type and priority, with details on expected funding, likelihood of success, and projected end dates.
### Restoration Projects

#### Budd Inlet

**Type:** Sediment remediation, riparian vegetation restoration, replacement of degraded tidal structures and habitat creation for steelhead, salmon, and other species.

#### Inlet Restoration

**Location:** Budd Inlet

**Description:** Replacement of degraded tidal structures and habitat creation for steelhead, salmon, and other species.

**Date:** 6/27/2013

**Status:** Implementation

**Funding:** $3,000,000

**Implementation:** 6/30/2015

### Funding

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| 2009-01 | 1,250,000 | People for Parks and Trails (PFT) fund,.
| 2009-02 | 2,500,000 | South Puget Sound Salmon Recovery Fund (SPSSF).
| 2010-01 | 1,500,000 | South Puget Sound Salmon Recovery Fund.
| 2010-02 | 1,875,000 | Washington State Department of Fish and Wildlife.

### Summary

- **Objectives:** Improve fish habitat, protect critical habitat, and enhance biodiversity.
- **Methods:** Sediment remediation, riparian vegetation restoration, and replacement of degraded tidal structures.
- **Funding:** $3,000,000 from various sources, including the South Puget Sound Salmon Recovery Fund and People for Parks and Trails fund.
- **Timeline:** 6/30/2015

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### Notes

- **Contact:** For more information, contact the project manager at [projectmanager@restorationdistrict.org](mailto:projectmanager@restorationdistrict.org).
- **Follow-up:** Stay tuned for updates and progress reports.

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**Community Engagement:**

- **Surveys:** Conducted to gather community input and feedback.
- **Meetings:** Scheduled for community outreach and engagement.
- **Workshops:** Held for hands-on learning and skill development.

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**Monitoring:**

- **Data Collection:** Ongoing to assess the project's success and impact on local ecosystems.
- **Reports:** Regularly updated to track progress and outcomes.

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**Support:**

- **Volunteers:** Needed for various tasks, including data collection, landscaping, and community outreach.
- **Donations:** Considered to support the project's sustainability.

---

**Acknowledgments:**

- **Funding Agencies:** South Puget Sound Salmon Recovery Fund (SPSSRF), Washington State Department of Fish and Wildlife.
- **Partners:** People for Parks and Trails (PFT), South Puget Sound Salmon Recovery Fund (SPSSRF).

---

**Contact for more information:**

- **Project Manager:** [projectmanager@restorationdistrict.org](mailto:projectmanager@restorationdistrict.org)
- **Community Engagement:** [community@restorationdistrict.org](mailto:community@restorationdistrict.org)
13 - Budd Inlet Projects

**Structure and Connectivity**
- Removal of fish passage
- Replacement of culverts

**Functionality & Performance**
- Estuary Restoration
- Streamflow Modification

**Morphology/Stream**
- Riparian Restoration
- Floodplain Development

**Hydrology**
- Water Quality
- Water Quantity

**Landowner**
- Project initiated by landowner (Thurston County) - they would like the blockage at Ellis Creek removed first, then they will consider match funding on this project. In addition to the washout, they also need to clean up the concrete debris remaining from the washout, and related drainage structures (concrete culvert and linear drainage ditches) with the intent of restoring full tidal inundation, fish passage, and sediment processes to a blocked tidal estuary in Budd Inlet, South Puget Sound. The current situation allows for two miles of spawning and rearing habitat.

**Steelhead**
- The project proposes to remove the tidal barrier culvert on Bull Harbor fish on Ellis Creek. This would allow access to 3 miles of stream and tidal wetlands, including open-pit and riparian habitat for the City of Olympia and the Pacific County Fish and Wildlife Agency.

**Coho**
- The project will be to remove an existing relic road embankment and its corrugated culvert upstream and 36 inch concrete downstream. The project will include the removal at the mouth of Ellis Creek taking place in summer of 2008.

**Cutthroat**
- The goal of this project is to remove five bulkheads in WRIA 13, connecting adjacent estuaries in two miles of spawning and rearing habitat and build upon the partial barrier removal at Butler Cove (Thurston County) - they would like the blockage at Ellis Creek removed first, then they will consider match funding on this project. The project will include the removal at the mouth of Ellis Creek taking place in summer of 2008.

**Chinook**
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**Trout**
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**Species**
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### Hammersley Inlet and Oakland Bay Restoration Projects

#### Johns Creek LWD Placement

- **Four reaches.** Begin at PUD 3 site: install approximately 14 pieces of LWD in this reach of Johns Creek to increase habitat complexity in the channel as Johns Creek scours around the newly installed wood creating pools. Additionally, MCD plans to plant approximately 19.25 acres of native vegetation.

#### Oakland Bay Projects

- **Johns Creek LWD placement** - Four reaches.

#### Johnson Farm Remeander Bypass

- **Numerous passage barriers by creating a new stream channel on mainstem Skookum and unnamed tributary.**

#### Knotweed Assessment and Treatment

- **Assess and treat shoreline for knotweed; priority focus on streams with Action Plans.** Begin with Mill and Gosnell Creeks, this project proposes to assess and quantify the existence of knotweed in two major freshwater systems within WRIA 14.

#### Hammersley Inlet Pocket Estuary Restoration Project

- **Between Libby and Church Points and would remove the remnants of a dike and historic man-made pond to restore function to this 1/2 acre pocket estuary.** Removal of invasives and revegetation is also necessary. A passage barrier exists on adjacent forest landowner site.

### Totten and Little Skookum Inlets Restoration Projects

- **LWD on Skookum Creek** - Treat 5500’ of stream with woody debris - new bridge site to HW 101.

### Acquisition and Restoration

- **Landowner willing, riparian project underway, county culvert first stage - working with William Pipeline for mitigation dollars.**

---

**Table continued...**
This project will enable Captains Cove #1 and the project partners to expand conservation efforts and enhance the ecological, cultural, and economic importance of tidelands located on the Deschutes River mainstem. By including, through the use of environmental flow and other stream flow studies, the range of beneficial climate change impacts on habitat for anadromous fishes, and providing benefits to a series of specific fish species, the project will provide habitat for multiple Pacific Salmonid species including chum, coho, chinook, sockeye, cutthroat, steelhead, and migratory birds. The project will also support the conservation of riparian habitat associated with the mouth of the Skookum Creek estuary. Skookum Inlet provides rearing and transition habitat for multiple Pacific Salmonid species including chum, coho, chinook, sockeye, cutthroat, steelhead, and migratory birds. The project will also support the conservation of riparian habitat associated with the mouth of the Skookum Creek estuary.

The project will acquire for protection 22.9 acres of estuary and surrounding shoreline properties on Oakland Bay, Twin Rivers has been collectively provided habitat for multiple Pacific Salmonid species including chum, coho, chinook, sockeye, cutthroat, steelhead, and migratory birds. The project also has the potential to address threats associated with the mouth of the Skookum Creek estuary. Skookum Inlet provides rearing and transition habitat for multiple Pacific Salmonid species including chum, coho, chinook, sockeye, cutthroat, steelhead, and migratory birds. The project also has the potential to address threats associated with the Skookum Inlet estuary.

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Acquisition for Protection

14 - Henderson Inlet

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**Projects**

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### Habitat Assessment

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### Summary

- **Programmatic Assessments:**
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  - Training, outreach, and educational activities are essential.

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  - Sensitive areas are targeted.
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<th>Economic Demands</th>
<th>Landowner Demands</th>
<th>Environmental Demands</th>
<th>Conclusion</th>
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<tr>
<td>Burns Cove Estuary Restoration</td>
<td>Currently, an impounding pond impedes water flow into Totten Inlet. Remove impoundment and restore estuary.</td>
<td>Landowner unwilling at this time</td>
<td>12/31/2011</td>
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<td>Hammersley Inlet and Oakland Bay Restoration Projects</td>
<td>Replace Navy barrier culvert on Johns Creek mainstem fish passage - Coho, Steelhead, Chum (Secondary Species). Desire to move project forward but very expensive project.</td>
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<td>Budd Inlet Acquisition/Restoration Projects</td>
<td>The Deschutes River Wetland Enhancement Project site is located on 160 acres bisected by the Deschutes River at river mile four. The Project site includes 9,000 feet of riparian shoreline (4,400 feet on the east bank and 4,600 feet on the west bank) and 70 acres of existing wetland habitat.</td>
<td>Landowner willing, negotiations underway, proposed for pilot ILF program, however landowner is currently unwilling because the appraisal came in lower than landowner hoped.</td>
<td>2013</td>
<td>CLT, TC, SPSSEG, SIT</td>
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<tr>
<td>Coffee Creek Acquisition/Restoration Projects</td>
<td>Protect 250 acres of Coffee Creek through donated easement, fee simple acquisition and purchased easement. Additionally, the project would remove multiple blocking culverts in tributaries - Steelhead, Coho, Chum, Meriel to dig.</td>
<td></td>
<td></td>
<td>2012</td>
<td>CLT, SPSSEG</td>
<td></td>
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