



WEST SOUND
WATERSHEDS COUNCIL

West Sound Watersheds Council 2012 Three-Year Work Plan Update

Salmon recovery involves a complex set of actions and interactions that are both directed by the Recovery Plans and by the reality within each watershed. The three year work plan is one tool used to reflect those complex interactions.

The purpose of the work program update is four-fold: 1) to provide a forum for watershed groups, the Recovery Implementation Technical Team (RITT), and Puget Sound Partnership (PSP) staff to discuss the work, status, and needs of salmon recovery in each salmon recovery watershed chapter and regionally; 2) to document the work, status, and needs of salmon recovery per each salmon recovery watershed chapter for the next three years that can be rolled up into a regional statement of the funding and capacity needs, current status, and existing work underway; 3) to identify priority projects for current and future funding opportunities; and 4) to document changes in the implementation of each salmon recovery watershed chapter.

The components of the 3 Year Work Plan are a spreadsheet of priority projects and programs that can be started within three years (2012, 2013, 2014), and a narrative. The narrative describes the progress, changes, and status of recovery implementation and the work program since the 2011 update.

Spreadsheet of Priority Projects and Programs

This spreadsheet is attached as an excel file. The color coding is as follows:

White: no change from 2011

Yellow: new project added in 2012

Green: active project (funded)

Blue: completed

Orange: new information or updates to existing projects.

For more information about many of the projects, including photos, maps and project sponsor information, please see the Habitat Work Schedule site at: <http://hws.ekosystem.us>

Narrative

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?

The primary hypothesis that forms basis for the suites of actions proposed in this update is that the **nearshore habitat is the highest priority for Chinook recovery** in this lead entity. Many of the projects and programs proposed in the next three years are targeted at protecting or restoring quality nearshore habitat. We have several substantial shoreline armoring removal projects that are in final design and/or construction phases for 2012 and 2013. Associated with these shoreline restorations is effectiveness monitoring which intends to document nearshore habitat improvements at many of these sites using a combination of volunteers (Beach Watchers) and professionals.

Several members of the lead entity are actively reviewing and commenting on the Shoreline Master Program (SMP) updates as appropriate. (The updates are occurring in the cities and counties in the lead entity: Gig Harbor, Port Orchard, Bremerton, Poulsbo, Bainbridge Is., Kitsap and Pierce). The updates address “no net loss of shoreline ecosystem functions” which offers another tool to achieve protection and restoration of critical salmon habitat. Local SMP updates are in the final stages of preparation in 2012, with review and adoption expected in the 2013-2014 timeframe at the latest.

We also plan to continue with our investment of salmon recovery funds in the documentation and updates of existing freshwater ecosystems through Wild Fish Conservancy’s Water Type Assessments. West Sound water type assessment results to-date document substantial fish habitats that are mismapped or unmapped on regulatory maps. Until the mapping errors are corrected, many streams and wetlands are not likely to receive the protection that they warrant under existing and updated regulations. In addition to updating regulatory maps to assist with freshwater protection under current Critical Areas Ordinances and Shoreline regulations, the assessment identifies salmon habitat restoration and protection projects.

A major action needed but not yet funded is the development of a formal steelhead recovery plan, since the Chinook recovery plan excluded freshwater habitat. We know very little about the remnant steelhead populations in the West Sound (Central/ So. Sound major population groups: East Kitsap Winter Run, Case/Carr Inlet Winter Run). Steelhead smolts have been captured in smolt traps on Chico Creek in 2011 and 2012; and the water typing effort mentioned above has documented purported *O. mykiss* juveniles in several small watersheds. The steelhead recovery plan, once drafted and adopted, should lead to better identification and protection of the freshwater habitat of the West Sound.

There are several complimentary non-salmon recovery funded grants underway in Kitsap County that address aquatic and terrestrial land use planning and prioritization of freshwater and marine restoration and protection within the next three years. These include *Alternative Futures Analyses*, *Shoreline Restoration* and an additional *Water Typing* grant. Expected within the next three years is a nearshore regulatory effectiveness grant-funded project that may assist in future compliance monitoring of shoreline permits to ensure “no net loss”.

The Puget Sound Ecosystem Nearshore Restoration Project (PSNERP) recently published “Strategies for Nearshore Protection and Restoration in Puget Sound”. This document was just recently published at the time of this writing, and has not yet been utilized for salmon recovery planning in this lead entity. The report will definitely be a valuable new tool for us.

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 was pointed out in the *2011 Implementation Status Report* (Millie Judge author), many of the actions noted in the East Kitsap Chapter are not aligned with the 3 Year Work Program list of projects and programs. The actions in the recovery chapter are mostly policy, planning, and regulatory focused. It is clear that the authors of the chapter most likely assumed that the habitat restoration planning and programs would be addressed in a separate forum. (The lead entity recovery strategies were an appendix to the chapter.)

Status: We are implementing the highest priority restoration and protection project and are continually updating the project list as new ones are identified and prioritized. Integration of the hatchery/harvest planning components is just beginning.

Pace: The restoration projects have taken much longer than expected, mostly because of the complexity of the actions and the lack of funding. There are very limited local funds dedicated to priority salmonid habitat restoration projects, so the pace is very slow.

3. What is the general status of implementation towards your habitat restoration, habitat protection, harvest management, and hatchery management goals?

Habitat Restoration:

Chico Creek: The Chico Creek restoration project at the Kitsap Golf and Country Club was completed in 2012. This restoration took place in the lower mile of the watershed, where the creek had been channelized and armored since 1924. This project created a more natural stream gradient, meander pattern, and floodplain dimension. The riparian zone was planted with native conifer tree species and shrub vegetation. Large wood material was placed within the channel to provide in-stream habitat, improve the meander pattern, and stabilize bed material. This project was designed to provide high

flow refuge and rearing habitat for juvenile fish, facilitate upstream migration to the 16 miles of habitat in the upper watershed, and improve spawning habitat. The work took place in 2008, 2010, and 2011, was funded almost entirely with multiple SRFB grants.

Engineering and design for the replacement of the culvert immediately upstream of the golf course was completed in early 2012. (This action is critical to sustain the restoration investment downstream). After reviewing several alternatives, including abandonment of the road, it was determined that a 110 foot bridge will provide both protection of the road and natural floodplain function. The estimated cost for the bridge is \$1,800,000. The funds for this project are not yet secured, and the project is not a highly prioritized item on current county transportation plans. This is a likely candidate for Puget Sound Restoration funding if included in the 2013 legislature capital budget.

The largest restoration currently underway in our lead entity is restoring the Chico Creek Estuary at Dyes Inlet, just downstream from the golf club project described above. The restoration is focused on remediation of constricting culverts at the mouth of the creek: a county road (Kitty Hawk) and a state highway (Highway 3); and some nearshore restoration associated with the creation of new shoreline. Removal of the Kitty Hawk culvert is well underway, led by the Suquamish Tribe. The Kitty Hawk culvert removal project involves tideland and shoreline property acquisitions, construction of a new access road for three residents (who would be stranded when culvert is removed), removal of the culvert and associated fill, and shoreline restoration. The Kitty Hawk culvert will be removed in 2012 or 2013.

Washington State DOT (WSDOT) built Highway 3 in the early 1960's, filling in the salt marshes and the estuary, and putting the creek into two 8 foot wide, approximately 500 foot long culverts. Planning is underway to replace the Highway 3 culverts with a large bridge, led by WSDOT. This project is a priority in WSDOT's planning, and has been called out as a local near term action for the West Sound Action Area.

There are culvert replacements upstream (Wildcat Creek and Dickerson Creek) scheduled by Kitsap County for 2012 and 2013, which should increase steelhead, coho and chum adult passage in those drainages.

Carpenter Creek:

The Carpenter Creek project is a long standing priority estuary restoration, funded by the 2010 legislature and completed in early 2012. An 8 foot tide gate (culvert) restricted tidal flow and stranded salmon and other species inside the culvert for almost 50 years. The estuary has almost 30 acres of near pristine habitat. The culvert was replaced with a 90 foot bridge. The project went very well (under budget and on time) and was overseen by Kitsap County Public Works. The project has the benefit of a monitoring strategy and volunteers (at Stillwaters Environmental Center) to implement

and maintain the monitoring. Immediate changes to the estuary are evident and satisfying! It will be informative to see documented changes to the physical and biological parameters of the estuary. One surprising outcome is the brand new scour holes caused by increased velocity of tidal flow at a remaining culvert on the estuary (at West Kingston Road). This culvert replacement will be evaluated by the lead entity in the future.

Misc. Nearshore:

There are fully funded nearshore restoration projects on schedule for completion in 2012, at Penrose Point State Park (South Puget Sound Enhancement Group sponsor) and at a private property on Port Madison (Bainbridge Island Land Trust sponsor). Both of these projects will remove large shoreline armoring structures and add riparian enhancements. There are also nearshore projects in conceptual or early design phases proposed in all the East Kitsap Peninsula inlets, the Gig Harbor and Key Peninsulas, and most of the islands in WRIA 15.

Habitat Protection:

A large part of the habitat protection focus is on the Shoreline Management Plans updates, described above.

We also are working closely with our local land trusts (Bainbridge Island and Great Peninsula Conservancy) on conservation and restoration opportunities through easements and other tools for habitat protection. The Bainbridge Island Land Trust currently has an (intact and functioning) shoreline acquisition opportunity, with willing landowners but not enough funding to complete the transaction. Kitsap County and several partners are pursuing acquisition of several thousand acres of forest and shoreline that includes some very high quality salmonid habitat (Kitsap Forest and Bay Project). Both of these projects are challenging to fund in this economic climate.

Harvest and Hatchery Management:

We have no identified harvest or hatchery activities associated with the *Salmon Recovery Plan*. The lead entity is engaging the co-managers to share their hatchery planning documents (HAIP) and has had harvest management discussions. Despite considerable efforts, the lead entity has not been successful in eliminating rainbow trout fry and catchable plants in the Chico Creek watershed.

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?

Most of the projects and programs proposed in the next three years are targeted at protecting or restoring quality nearshore habitat. One specific and recurring theme for our priorities is: How do we utilize the nearshore assessment information data sets for prioritizing future projects? We expect the PSNERP document will be helpful in this task. We are also working with

local governments to identify and prioritize public works projects that will be beneficial to salmon and steelhead.

What we need to accomplish these goals is consistent funding for coordination of actions, and technical support for local jurisdictions.

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?

There have not been any significant changes.

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

We continue to struggle with land use issues, similar to other developing areas of Puget Sound, but do not have much information on the status and trends of our salmon populations. The smolt trapping on Chico Creek is relatively new and will be helpful in this regard.

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

Not necessarily new challenges, but a better appreciation of old challenges and their inherent uncertainties. Facing these uncertainties, we encourage more deliberate and responsible integration of habitat, harvest, and hatchery efforts; more accountability; and better adherence to the precautionary principle in our marine and freshwater management policies.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1		West Sound Watersheds Council	3 Year Work Program		white - no change	yellow- new project	green-active	orange- new information	blue- completed												
2										Project Planning							Project Cost and Sponsor				
3	Project Type ss indicates south sound	Project Name	Project Description (brief description)	Limiting Factors	Habitat Type	Activity Type	Project Performance (restore 30 acres of floodplain)	Primary Species Benefiting	Secondary Species Benefiting	Current Project Status (2012 Activity to be funded	2012 Estimated Cost	2013 Activity to be funded	2013 Estimated Cost	2014 Activity to be funded	2014 Estimated	Likely End Date	Likely Sponsor	Total Cost of Project	Local share or other funding	Source of funds (PSAR, SRFB, other)
4	Capital																				
5	Habitat Restoration																				
6																					
7		Chico Creek Instream - 19th Hole restoration	restore riparian corridor	alteration of stream channel, bed,LWD removal	riparian	fish passage, instream spawning and rearing conditions	250 feet of stream channel and bank	steelhead, chum	Chinook, coho, cutthroat	project on hold	design		design	\$5,000	construction	\$100,000	2014	Kitsap DCD	\$105,000	\$15,000	SRFB, Kitsap County
8		Chico Creek Instream Phase 2	Remove weirs, restore complexity	alteration of stream channel, bed,LWD removal	riparian	fish passage, instream spawning and rearing conditions	4 acres stream habitat, 16 miles passage	steelhead, chum	Chinook, coho, cutthroat	completed			monitor	\$0	monitor	\$0	2012	Kitsap DCD	\$832,000	\$124,800	SRFB/PSAR
9		Chico Creek Instream Phase 1	restore complexity	alteration of stream channel, bed,LWD removal	riparian	fish passage, instream spawning and rearing conditions	4 acres stream habitat, 16 miles passage	steelhead, chum	Chinook, coho, cutthroat	completed	NA	NA	NA	\$0	NA	\$0	2009	Kitsap DCD	\$925,810	\$388,701	SRFB/PSAR
10		Carpenter Creek Restoration	restore tidal function	nearshore alteration	nearshore	restore nearshore, sub-estuary function	30 acres sub-estuary habitat	Chinook	steelhead, coho, cutthroat, chum, forage fish	completed					monitor		2012	Kitsap PW	\$2,800,000		legislative capital budget
11		Chico Creek Golf Club Hill Rd Culvert Removal	increase fish passage	altered stream channel	riparian	fish passage, stream channel morphology	16 miles fish passage	steelhead, chum	Chinook, coho, cutthroat	Design ready			construction	\$1,800,000	plant maintenance	\$5,000	2014	Kitsap PW	\$1,800,000	\$805,000	SRFB, PSAR, Kitsap County
12		Chico Estuary Culvert Removal	restore tidal function, increase fish passage	alteration, alteration of stream channel	nearshore	fish passage, estuarine function, stream channel morphology	17 miles spawning habitat, 4 acres estuarine fill	steelhead, chum	Chinook, coho, cutthroat	permitting underway	construction	\$1,000,000	construction	\$1,000,000	maintenance	\$5,000	2014	Kitsap PW, Suquamish Tribe	\$2,005,000		US Navy, EPA, Kitsap Co., ESRP, Suquamish Tr.
13		Chico Estuary Bulkhead Removal	restore nearshore processes	nearshore alteration	Nearshore	fish passage, estuarine function, stream channel morphology	250 ft of shoreline	steelhead, chum	Chinook, coho, cutthroat	Feasibility completed	finish design, permitting		construction	\$60,000			2012	Suquamish Tribe	\$60,000		SRFB
14		Chico Estuary Invasive Veg. Removal	remove invasive plants	altered riparian habitat	Nearshore	altered riparian vegetation	39 acres shoreline, riparian areas	steelhead, chum	Chinook, coho, cutthroat	Feasibility completed	NA		complete	\$85,000			2012	Kitsap Co.?	\$85,000		SRFB
15		Highway 3 Bridge over Chico Creek	improve fish passage, stream function	fish passage, alteration of stream channel	Nearshore	fish passage, estuarine function, stream channel morphology	17 miles spawning habitat, 4 acres estuarine fill	steelhead, chum	Chinook, coho, cutthroat	project planning is priority near term action	plan		design	\$100,000	design	\$100,000	2017	WSDOT	\$21,000,000		WSDOT
16		Strawberry Plant Park Restoration	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function	2 acres salt marsh, nearshore, riparian	Chinook	chum, coho, steelhead, cutthroat, forage fish	construction completed	monitoring						2011	COBI	\$650,000	\$375,000	COBI, SRFB, NRDA
17		Indianola Estuary restoration	restore tidal function	altered tidal flow	Nearshore	restore nearshore, sub-estuary function	3.5 acres	Chinook	chum, coho, steelhead, cutthroat	construction completed	monitoring						2010	Kitsap PW	\$450,000	\$450,000	SRFB, Suquamish, Oil spill \$\$
18	ss	Penrose Point Bulkhead Removal	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore and beach processes	1500 feet shoreline	Chinook	chum, coho, steelhead, cutthroat, forage fish	permitting underway	construction	\$386,000			close out	\$0	2013	SPSSEG	\$490,000	\$57,900	WA State Parks, SRFB, PSAR, USFWS
19		Beaver Creek restoration Ph. 4	restore fish passage, regulate flow	high velocity, sediment	riparian	fish passage, stream channel morphology		chum, coho	cutthroat	work completed with Navy funds								MSFEG, Navy	\$300,000	\$100,000	US Navy
20		Harper Estuary Restoration	restore tidal function	altered nearshore and sub-estuary	Nearshore	restore nearshore, sub-estuary function		Chinook	chum, coho, steelhead, cutthroat	in PSNERP project portfolio, no active project sponsor							2015	PSNERP, Kitsap County	\$1,400,000	\$10,000	PSNERP, ESRP, PSAR
21	ss	Whiteman Cove Estuary Restoration	restore tidal function	nearshore alteration	nearshore	restore nearshore, sub-estuary function	30 acres sub-estuary habitat	Chinook	steelhead, coho, cutthroat, chum, forage fish	conceptual	meet with landowners		propose project		design	\$50,000	2013	SPSSEG	\$500,000	\$50,000	SRFB, PSAR, ESRP

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22		Donkey Creek Restoration	restore tidal function, improve fish passage	altered tidal flow, stream channel	Nearshore	fish passage, estuarine function, stream channel morphology	1 acre, .3 mile shoreline, 300 ft. 18 in culvert	chum, coho	Chinook, cutthroat, steelhead	City of Gig Harbor received federal appropriations	design	\$800,000	construction	\$3,600,000	close out	\$50,000	2014	City of GH	\$4,450,000	\$800,000	USFWS, HUD, City SW funds
23		Pritchard Park West Rip-Rap Shoreline Restoration	restore nearshore processes & habitat	altered nearshore habitat	Nearshore	restore nearshore function	538 ft shoreline, 1.3 acres intertidal, .65 acres riparian	Chinook	chum, coho, steelhead, cutthroat, forage fish	project on hold							2014	Elliott Bay Trustee Council	\$880,000	\$400,000	NRDA, COBI
24		Pritchard Park East Bluff Shoreline Restoration	restore nearshore processes & habitat	altered nearshore habitat	Nearshore	restore nearshore function	475 ft shoreline, .1 acre intertidal, .4 acres riparian	Chinook	chum, coho, steelhead, cutthroat, forage fish	construction completed	close out						2011	COBI	\$438,000	\$203,000	SRFB, NRDA, COBI
25		Powel Shoreline Restoration	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function	1800 ft shoreline	Chinook	chum, coho, steelhead, cutthroat	permitting underway	construction	\$388,000	monitor	\$25,000			2013	BILT, Powel Family	\$520,000	\$51,000	PSAR, land owner
26	ss	Maple Hollow Shoreline Restoration	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore function	2 acres, 1450 ft. shoreline	Chinook	chum, coho, steelhead, cutthroat, forage fish	completed							2012	Key Pen Parks	\$50,000	local match	PSAR, ALEA
27		Milwaukee Dock Eelgrass Restoration	restore eelgrass habitat	altered nearshore habitat	Nearshore	restore eelgrass beds	5 acres eelgrass meadow	Chinook	chum, coho, steelhead, cutthroat, forage fish	project planning underway							2013	NOAA, COBI	\$800,000	?	NRDA
28		Clear Creek Bridge	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function		Chinook	chum, coho, steelhead, cutthroat	on county TIP							2013	Kitsap PW	\$2,825,000	\$2,800,000	Kitsap PW
29		Keyport Lagoon Restoration	restore nearshore processes	altered nearshore habitat	Nearshore, sub-estuary	restore nearshore, sub-estuary function		Chinook	chum, coho, steelhead, cutthroat, forage fish	project on hold	feasibility & design						2013	US Navy, Suquamish Tribe			US Navy
30		Anna Smith park shoreline restoration	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function	700 ft shoreline	Chinook	chum, coho, steelhead, cutthroat	permitting underway	construction	\$25,000	monitor	\$10,000			2013	Kitsap County Parks	\$35,000		Kitsap County, EPA
31	ss	Filucy Bay bulkhead removals	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function	5000 ft shoreline	Chinook	chum, coho, steelhead, cutthroat	partially designed	finish design	\$5,000	Construction	47,000			2013	South Puget Sound SEG	\$47,000	\$7,000	PSAR, land owner
32	ss	Von Geldern Cove bulkhead removals	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function	1500 ft of shoreline	Chinook	chum, coho, steelhead, cutthroat	Conceptual	Design	\$30,000	Construction	400,000			2014	South Puget Sound SEG	\$430,000	ESRP	SRFB, PSAR
33		Rain Garden Program	LID implementation	storm water	water quality, quantity	rain garden installations	NA	all salmonids		Currently funded	build gardens	\$100,000	build gardens	\$100,000	build gardens	\$100,000	2020	Kitsap Cons. District, SSWM	\$300,000	\$300,000	Kitsap Cons. District, SSWM
34		Kitsap Fairgrounds LID	LID implementation	storm water	water quality, quantity	storm water retrofit	NA	all salmonids		design completed	construction	\$178,000	construction	\$167,000			2012	Kitsap Parks, Cons. District	\$390,000	\$25,000	DOE, CCWF
35		Regional Shoreline Restoration	remove shoreline armoring	altered nearshore habitat	nearshore	restore nearshore function	unknown	Chinook	chum, coho, steelhead, cutthroat	underway	identify properties						2013	Kitsap County DCD	\$700,000	\$230,000	EPA
36		Gorst Creek Habitat Enhancement	restore riparian habitat	failing riparian zone	riparian	restore instream and riparian habitat	1200 ft river	Chinook, steelhead	chum, coho, cutthroat	permitting underway	construction	\$94,500					2012	MSFEG,	\$105,000	\$30,000	PSAR, CSF, land owner
37		Clear Creek floodplain restoration	restore floodplain	floodplain confined	riparian	restore floodplain	7 acres	steelhead, coho	chum, cutthroat	feasibility completed	design	\$250,000	construction	1,750,000	close out		2014	Kitsap PW	\$2,000,000	\$1,500,000	SRFB, Kitsap PW
38		Dickerson Ck ladder	increase fish passage	altered stream channel, fish passage	riparian	fish passage, stream channel morphology	.5 miles spawning habitat	steelhead, chum	cutthroat, coho	design complete			implementati on	\$100,000	construction	\$100,000	2012	Kitsap CD, PW	\$200,000	\$25,000	Kitsap Conservation District, ?
39	ss	Carr Inlet (3) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
40	ss	Anderson Island (5) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
41	ss	McNeil Island bulkhead removal	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB

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42	ss	Case Inlet (5) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
43	ss	McNeil Island tidegate removal	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
44	ss	Oro Bay (3) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
45	ss	Drayton Passage (2) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
46	ss	Filicy Bay Enhancement	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
47	ss	Filicy Bay Dock & Pier removal	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
48		Anthropogenic shore marsh wood removal	restore salt marsh processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	design complete			remove wood	\$75,000	monitor	\$25,000	2014	Suquamish Tribe	\$100,000		NRDA, PSAR
49		West Kingston Road Bridge	restore tidal function	nearshore alteration	nearshore	restore nearshore, sub-estuary function	3 acres sub-estuary habitat	Chinook	steelhead, coho, cutthroat, chum, forage fish	design partially complete			design	\$50,000	design	\$50,000	2017	Kitsap PW	\$1,000,000		ESRP, PSAR, County road funds
50		Point no Point marsh restoration	restore salt marsh processes	nearshore habitat protection	nearshore	restoration	10 acres?	Chinook	coho, summer chum, forage fish	under discussion								Kitsap SSWM	\$500,000		ESRP, County SSWM funds
51		Acquisition for Protection																			
52	ss	Rocky Bay Estuary Protection	protect ecologically intact shoreline	nearshore habitat protection	nearshore	protects intact shoreline	6.5 acres	Chinook, coho	Steelhead, cutthroat, chum, forage fish	proposed project			acquisition	\$158,400			2013	Great Peninsula Conservancy	\$165,900	\$31,260	PSAR, SRFB
53		Poulsbo's Fish Park Acquisition & Restoration	continue protection of Dogfish Creek estuary	fish passage, altered nearshore habitat	nearshore	fish passage, estuarine function, stream channel morphology	2000 ft. shoreline	steelhead, chum	Chinook, coho, cutthroat	on City's planning documents	planning		acquisition	300,000	land acquisition	\$300,000	2014	City of Poulsbo	\$700,000	\$250,000	SRFB, ESRP, PSAR
54		No. Liberty Bay shoreline protection	protect ecologically intact shoreline	nearshore habitat protection	Nearshore	protects intact shoreline	400 ft. shoreline	Chinook	chum, coho, steelhead, cutthroat, forage fish	proposed project	planning		acquisition	196,000	restoration	\$30,000	2013	City of Poulsbo	\$230,000	\$64,000	PSAR, City SW funds
55		West Poulsbo shoreline protection	protect ecologically intact shoreline	nearshore habitat protection	Nearshore	protects intact shoreline	500 ft. shoreline	Chinook	chum, coho, steelhead, cutthroat, forage fish	Conceptual	planning		planning		acquisition, restoration	\$1,000,000	2012	City of Poulsbo	\$1,000,000	\$250,000	Suquamish Tribe, PSAR, ESRP
56	ss	Anderson Island estuary protection (3 sites)	protect small pocket estuaries	nearshore habitat protection	Nearshore	protects intact shoreline		Chinook		Conceptual							2015	SPSSEG	\$150,000	\$150,000	PSAR, SRFB
57	ss	Anderson Island feeder bluff protection (2 sites)	protect feeder bluffs	nearshore habitat protection	Nearshore	protects intact shoreline		Chinook		Conceptual							2015	SPSSEG	\$150,000	\$150,000	PSAR, SRFB

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79		West Sound Watershed organization	staff salmon recovery implementation.	NA	NA	NA	NA	all salmonids		currently funded	staff Lead Entity	\$115,000	staff Lead entity	\$115,000	staff Lead Entity	\$115,000	2020	Kitsap DCD	\$345,000		RCO, PSAR	
80	Outreach & Education																					
81	ss	Marine education in the schools	Classroom education =promotion of marine stewardship	NA	NA	NA	NA	all salmonids		Currently available		\$25,000		\$30,000		\$50,000	Ongoing	Pierce CD, Kitsap SSWM, UW/WSU	\$105,000 (Pierce CD)		Private donations, additional grant funding	
82	ss	Shoreline stewardship	Beach programs =stewardship	NA	NA	NA	NA	all salmonids		On going		\$65,000		\$70,000		\$70,000	Ongoing	Pierce CD, Kitsap SSWM, UW/WSU, COBI	175000 (Pierce CD) 30000 COBI		Private donations, additional grant funding	
83	ss	Realtor Workshops	training, tools =to real estate professionals	NA	NA	NA	NA	all salmonids		Available		\$8,000		\$8,000		\$8,000	Ongoing	Pierce, Kitsap Cons. Districts	\$30,000	\$30,000	Pierce, Kitsap Cons. Districts	
84	ss	Natural Yard Care	Provide education & activities	NA	NA	NA	NA	all salmonids		Currently available		\$75,000		\$75,000		\$75,000	Ongoing	TPCHD	\$225,000		TPCHD, PC Solid water	
85	Instream Flow																					
86		WRIA 15 water Typing	SEE ABOVE	NA	NA	NA	NA	all salmonids														
87	Habitat Project Monitoring																					
88	ss	Nearshore project effectiveness	project effectiveness monitoring	NA	NA	NA	NA	all salmonids		conceptual	develop		implement	\$40,000	on-going	\$40,000	2017	SPSSEG, Kitsap DCD	\$80,000		PSAR, ESRP	
89	Total Non-Capital Need:											\$338,000		\$388,000		\$382,000				\$1,178,350	\$45,000	
90	Priority Projects and Programs	Benefiting Non-Listed Species																				
91	ss	Little Minter Fish Passage	replace culvert w/ bridge	fish passage, stream morphology	riparian	fish passage	2 mile spawning habitat	coho, chum	Chinook, steelhead, cutthroat	partially designed	design, permit	\$20,000	construction	\$160,000	close out	\$10,000	2011	SPSSEG	\$190,000	\$28,500	PSAR/SRFB	
92		Chico Wild gamete collection	protect Chico Creek Chum	NA	NA	NA	NA	chum		project started	collect, process	\$15,000	collect, process	\$15,000	collect, process	\$15,000	2015	Suquamish Tribe	\$45,000	\$45,000	NWIFC	
93		Gilberton Creek Restoration	acquire easements, restore watershed	lowland stream & shore restoration	riparian, sub-estuary restoration	instream flow shoreline restoration	5 acres, .25 mile stream	chum	coho, steelhead, cutthroat	project on hold								GPC, MSFEG			ESRP, SRFB, PSAR	
94	ss	Warren Creek Fish Passage	restore fish passage	fish passage	riparian	fish passage	.5 mile	coho	cutthroat, chum	completed	construction						2012	Pierce Co.	\$500,000		Pierce County	
95	ss	Goodnough Ck.culvert replacements	restore fish passage and habitat at mouth	fish passage, nearshore functions	riparian	fish passage	.5 mile	coho	cutthroat, chum	conceptual	planning		design	\$25,000	construct				\$580,000	\$100,000	Pierce Co.	
96		Illahee Creek Restoration	restore ecological processes to Illahee Ck.	fish passage, water quality	riparian	acquisition, stormwater retrofitting		coho	cutthroat, chum,steelhead	in progress	planning	\$10,000	begin acquisitions	\$50,000	continue acquisitions	\$1,000,000	2020	Port of Illahee	\$7,000,000	\$500,000	Kitsap Co Parks, DOE, NFWF, CPF	
97		Ruby Creek culvert removals	increase fish passage	fish passage	riparian	fish passage, stream channel morphology	1.7 miles spawning habitat	coho	cutthroat, historic steelhead	feasibility completed	design, permit	\$6,000	construction	\$34,000			2011	Kitsap Cons. District	\$40,000	\$60,000	Kitsap Conservation District,FFFP	
98	ss	Schoolhouse Creek culvert replacement	restore fish passage and habitat	fish passage	riparian	fish passage	1 mile spawning habitat	coho	chum, cutthroat	design completed	permitting	\$18,000	construction	\$100,000	close out		2012	Pierce Co Water Programs	\$118,000	\$18,000	SRFB, Pierce Co.	
99	Total Non-Listed Species Need:											\$35,000		\$250,000		\$25,000				\$8,315,000	\$673,500	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	<i>Project Type ss indicates south sound</i>	<i>Project Name</i>	<i>Project Description (brief description)</i>	<i>Limiting Factors</i>	<i>Habitat Type</i>	<i>Activity Type</i>	<i>Project Performance (restore 30 acres of floodplain)</i>	<i>Primary Species Benefiting</i>	<i>Secondary Species Benefiting</i>	<i>Current Project Status (</i>	<i>2011 Activity to be funded</i>	<i>2011 Estimated Cost</i>	<i>2012 Activity to be funded</i>	<i>2012 Estimated Cost</i>	<i>2013 Activity to be funded</i>	<i>2013 Estimated</i>	<i>Likely End Date</i>	<i>Likely Sponsor</i>	<i>Total Cost of Project</i>	<i>Local share or other funding</i>	<i>Source of funds (PSAR, SRFB, other)</i>
2	Capital																				
3	Habitat Restoration																				
4	ss	Penrose Point Bulkhead Removal	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore and beach processes	1500 feet shoreline	Chinook	chum, coho, steelhead, cutthroat, forage fish	permitting underway	construction	\$386,000			close out	\$0	2013	SPSSEG	\$490,000	\$57,900	WA State Parks, SRFB, PSAR, USFWS
5	ss	Whiteman Cove Estuary Restoration	restore tidal function	nearshore alteration	nearshore	restore nearshore, sub-estuary function	30 acres sub-estuary habitat	Chinook	steelhead, coho, cutthroat, chum, forage fish	conceptual	meet with landowners		propose project		design	\$50,000	2013	SPSSEG	\$500,000	\$50,000	SRFB, PSAR, ESRP
6	ss	Maple Hollow Shoreline Restoration	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore function	2 acres, 1450 ft. shoreline	Chinook	chum, coho, steelhead, cutthroat, forage fish	completed							2012	Key Pen Parks	\$50,000	local match	PSAR, ALEA
7	ss	Von Geldern Cove bulkhead removals	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function	1500 ft of shoreline	Chinook	chum, coho, steelhead, cutthroat	Conceptual	Design	\$30,000	Construction	400,000			2014	South Puget Sound SEG	\$430,000	ESRP	SRFB, PSAR
8	ss	Filucy Bay bulkhead removals	restore nearshore processes	altered nearshore habitat	Nearshore	restore nearshore, sub-estuary function	5000 ft shoreline	Chinook	chum, coho, steelhead, cutthroat	partially designed	finish design	\$5,000	Construction	47,000			2013	South Puget Sound SEG	\$47,000	\$7,000	PSAR, land owner
9	ss	East Oro Bay dam removal	restore nearshore processes	altered nearshore habitat	nearshore	restore nearshore, salt marsh function		Chinook	chum, coho, steelhead, cutthroat	conceptual	scoping	\$5,000	design	40,000	construction	\$150,000	2014	South Puget Sound SEG	\$195,000	ESRP	SRFB, PSAR
10	ss	Carr Inlet (3) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
11	ss	Anderson Island (5) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
12	ss	McNeil Island bulkhead removal	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
13	ss	Case Inlet (5) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
14	ss	McNeil Island tidegate removal	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
15	ss	Oro Bay (3) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
16	ss	Drayton Passage (2) bulkhead removals	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
17	ss	Filucy Bay Enhancement	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB
18	ss	Filucy Bay Dock & Pier removal	restore nearshore processes	nearshore habitat protection	nearshore	restoration		Chinook	coho, cutthroat, chum	conceptual			design				2012	SPSSEG	\$200,000		SRFB

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
39	Habitat Project Monitoring																				
40	ss	Nearshore project effectiveness	project effectiveness monitoring	NA	NA	NA	NA	all salmonids		conceptual	develop		implement	\$40,000	on-going	\$40,000	2017	SPSSEG, Kitsap DCD	\$80,000		PSAR, ESRP
41	Total Non-Capital Need:											\$414,500		\$3,110,880		\$643,000			\$9,897,500	\$2,332,500	
42	Priority Projects and Programs	Benefiting Non-Listed Species																			
43	ss	Little Minter Fish Passage	replace culvert w/ bridge	fish passage, stream morphology	riparian	fish passage	2 mile spawning habitat	coho, chum	Chinook, steelhead, cutthroat	partially designed	design, permit	\$20,000	construction	\$160,000	close out	\$10,000	2011	SPSSEG	\$190,000	\$28,500	PSAR/SRFB
44	ss	Goodnough Ck.culvert replacements	restore fish passage and habitat at mouth	fish passage, nearshore functions	riparian	fish passage	.5 mile	coho	cutthroat, chum	conceptual	planning		design	\$25,000	construct				\$580,000	\$100,000	Pierce Co.
45	ss	Warren Creek Fish Passage	restore fish passage	fish passage	riparian	fish passage	.5 mile	coho	cutthroat, chum	completed	construction						2012	Pierce Co.	\$500,000		Pierce County
46	ss	Schoolhouse Creek culvert replacement	restore fish passage and habitat	fish passage	riparian	fish passage	1 mile spawning habitat	coho	chum, cutthroat	design completed	permitting	\$18,000	construction	#####	close out		2012	Pierce Co Water Programs	\$118,000	\$18,000	SRFB, Pierce Co.