

Mid-Hood Canal Narrative for 2011 Three-Year Work Program

This narrative only covers the Mid-Hood Canal Chinook Salmon Chapter of the Salmon Recovery Plan, and not the Skokomish Chapter. This is due to the fact that the Skokomish Chapter is currently under review and is being significantly re-organized and structured to address comments from NOAA and the Puget Sound Partnership. NOAA RITT members and PSP staff are participating in that process.

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?
 - ⌚ Significant conservation work is ongoing in the Dosewallips and Duckabush, though given the relatively small number of parcels, small size of anadromous zones in private property, and public perception of government buy-outs in south Jefferson County, the pace is deliberately slow and community-oriented. Regarding past efforts, Jefferson County is still working to complete the purchase of two estuary parcels in Duckabush from the year before last, the most important one (Duckabush Fire Station) of which now seems to be on track for completion in 2011. The Jefferson Land Trust has closed on one conservation purchase in the anadromous zone of that watershed, while still facilitating a purchase proposed by the County in the Dosewallips. A new, very significant proposal has been developed and is being pursued for conserving the entire southern shore of the Dosewallips from the Forest Service down to the State Park in a collaborative effort, which should yield permanent protection of the riparian corridor and its functions for approximately 4 miles of river. Conservation work in the Hama Hama is not proposed as an immediate need in the Salmon Recovery Plan or 3YWP, given the stable ownership by one family dedicated to forestry.
 - ⌚ Channel and floodplain restoration will be forwarded in the next 3 years by completing designs for at least 30 engineered log jams in both the Dosewallips and Duckabush Rivers and implementing those designs. Focal areas are Forest Service lands in the upper watersheds, public land along powerlines reach of the Dosewallips, and private lands in the middle reach of the Duckabush. The Wild Fish Conservancy will construct 4 jams in the Forest Service Boundary reach in the upper Dosewallips River, while we are beginning discussions with the Forest Service about mitigating road washout replacement in that watershed by picking up and implementing another roughly 20 jams over 5 reaches. In addition, a geomorphic reach analysis has been completed this summer in the Dosewallips estuary reach on State Parks land by WFC to determine potential benefits from riprap and campground removal for 2010. We have had very positive discussions with State Parks regarding these opportunities, and are currently proposing removing at least 2000 feet of hardened/armored shoreline while setting back multiple campsites to regain floodplain in 2013. At least one large jam will be constructed in 2011 in this reach. The draft reach analysis in partnership with multiple partners to improve habitat and mitigate flooding hazards at the Lazy

- C on the Dosewallips and hopefully reducing potential future harm from additional bank hardening has not progressed recently.
- ⌚ Estuary restoration is progressing with several smaller levee removals in the Dosewallips and Duckabush Rivers in the last few years. In the next 3 years we will seek to implement the recommendations from the geomorphic reach analysis described above for the Dosewallips. There are a few smaller projects in the Dosewallips estuary along blind tidal channels that we have not had success implementing due to landowner expectations. For the Duckabush, we are working on conserving a few smaller parcels of threatened land in the estuary along Pierce Slough/Creek, which we would hope could be enhanced in the coming three years with culvert replacement and channel/floodplain work (if money were available) as this is an important off-channel rearing area for summer chum and chinook salmon. Of particular concern at this point is our inability to begin to address the impacts of the earthen-filled causeway under Highway 101 at the Duckabush River, though the PSNERP process might help begin to address this stressor. In the Hama Hama estuary, the HCSEG has partnered with the landowner to install channel complexity, improve bank stability, and enhance access to a blind tidal channel system in the summer of 2010. We are hopeful of continuing to work with the landowners after this estuary project is completed to address the feasibility of improving connectivity of the mainstem to the upper estuary above Highway 101. Finally, many other non-natal nearshore habitat conservation and restoration projects are being implemented outside of these 3 main estuaries that will benefit chinook salmon recovery.
 - ⌚ Other than the USFS Watershed Analyses and EDT analysis, we have limited information on the magnitude of sedimentation in these systems, though both document increases over natural conditions and potential negative consequences for fish VSP. In addition, very little work has been done to quantify in-channel scour/deposition of bedload, though anecdotal evidence suggests this may be a relatively bigger problem than road impacts in at least the 2 northern rivers. Actions outlined in the Salmon Recovery Plan call for decommissioning roads with high aquatic risk on US Forest Service lands. Very few roads exist in the upper Dosewallips, with the exception of the Rocky Brook drainage where the USFS continues to make slow but steady progress. A somewhat larger length of roads exists in the subwatersheds of the upper Duckabush River, with little progress made towards implementing goals. A significantly larger length of USFS and private logging roads exist in the watershed/subwatersheds of the Hama Hama River, also with very little progress made towards implementing goals. For context however, the USFS has been quite busy addressing this specific issue in the Skokomish River where the scale and impacts are hypothesized to be much more significant, redirecting most of their staff capacity and funding for this issue. Minimizing chronic bed scour/deposition impacting efficacy of spawning and incubating salmon is a focus being addressed in the next 3 years and beyond by channel/floodplain/riparian restoration described above, mostly in the Dosewallips and Duckabush Rivers.

- ① Finally, riparian conservation/restoration is a fundamental building block documented by the Salmon Recovery Plan and supported by EDT. Several site specific projects have occurred, and several others are proposed in the 3YWP. We are currently implementing a Riparian Habitat Assessment and developing prescriptions for both public and private lands to move them to more functional, late successional stages, at a more comprehensive scale. In that process, we have identified several locations already that are ripe for additional riparian enhancement and are taking steps to develop those projects, find project sponsors and contacting landowners. A comprehensive knotweed assessment and control effort began in the Spring of 2010 using funding from a SRFB grant, continues with full control efforts in 2011, and is proposed for final treatment in 2012 with a current SRFB application. Both knotweed and Butterfly bush have been identified in the Dosewallips and will be assessed and control work begun in accordance with the Hood Canal Regional Knotweed Control Strategy. A knotweed assessment will also take place on the Duckabush River.

Pace/Status Question

1. What is the status of actions underway per your recovery plan chapter? Is this on pace with the goals of your recovery plan?
 - ① See above. Generally, we are making slow but steady progress. Much of what was outlined in the high implementation category for our 10 year goals has either been achieved or is achievable if funding were increased, while some unforeseen progress has been made on the low implementation potential category. Given lower-than-hoped-for funding levels, landowner expectations, and capacity issues at many levels, it would be fair to say we are not quite meeting the pace outlined in the Salmon Recovery Plan.
2. *An excel document is attached which includes a spreadsheet called 'PSP Staff Work - Watershed Goals.'* This spreadsheet will be filled out by PSP staff based on your watershed chapter plan to identify the 10-year recovery goals & objectives. PSP staff will send each watershed this information in preparation for the three-year work plan update process. This spreadsheet is to help track progress (and changes) toward recovery goals. 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.

Sequence/Timing

1. 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?
 - ① Speaking for habitat only, the EDT analysis suggested that all projects identified would basically need to be implemented to recover habitat enough to meet VSP goals, depending on intensity and efficacy of implementation. So our questions have been not which projects need to be done, but how to accomplish each project listed in the right sequence of highest benefit. In most cases, the major

sequencing issue is property ownership/landowner willingness and whether or not conservation needs to be pursued before implementing an action. Exceptions exist however about logistical sequencing, such as the concern about re-establishing the northern estuarine distributary in the Duckabush without first having raised the causeway so we don't wash out Highway 101. Thus the short answer to this question is which of the identified projects are ready to implement next logistically, but based on the principle of not implementing a lower priority project (as identified by EDT) "in lieu of" a higher priority project with the funding available.

Next Big Challenge

1. 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
2. What is the status or trends of habitat and salmon populations in your watershed?
 - ⌚ Status and trends of habitat is unknown, though the trend in the regulatory protections theme is towards an improving set of protections via SMP and CAO regulation updates, and the trend in the voluntary habitat restoration/conservation theme is towards an improving set of conditions as well.
 - ⌚ Trends for chinook salmon in the Mid-Hood Canal population is level or declining, I believe, and dangerously low. However, that discussion is on-going!
3. Are there new challenges associated with implementing salmon recovery actions that need additional support? If so, what are they?
 - ⌚ At this point, we don't know of new challenges other than climate change. If support could be leveraged, it would be to address the two largest issues remaining that were identified in the very beginning of this process, including constrictions caused by Highway 101 and understanding and addressing the impacts of public and private logging roads in the upper watersheds.

Three-Year Watershed Implementation Priorities for Hood Canal Coordinating Council

Costs are from Recovery Plan estimates and comparables methods

Yearly costs are preliminary estimates to be developed further with project sponsors

Prioritization to be determined by Lead Entity Committees, regional participants, and governments

Total Costs represent multiple years worth of projected costs

Annual costs represent money obtained and/or spent during calendar year

Projects represent all 4 priority Domains to allow more comprehensive tracking of salmon recovery while supporting community values.

Domain Priority	Bio Rank / EDT	Primary Limiting Factors	Action name and description	Likely sponsor	Total cost	Unfunded Portion	Existing Funding	Source of other funds	2007		2008		2009		2010		2011		2012		
									Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	
1	1 of 17	1,3	USFS/Upper Dosewallips wood-riparian restoration	WFC, USFS, Tribes	\$2,219,570	\$1,600,301	\$619,269	PSP, USFS, SRFB, PSC	Funding Strategy; Coordination		Feasibility/Design	\$100,000	Feasibility/Design cont'd	\$100,000	finish design concepts, scope LWD sources; riparian assessment	\$19,570	70% designs and NEPA permitting	\$30,000	finish permitting and construct 4 ELJs in FS Boundary (phase 1)	\$369,699	Construct ELJs in 2 or 3 reaches (phase 2)
1	4,6,9,5 of 17	1,3,5	Powerlines, Lazy C, Southshore riparian-floodplain protection Lower Dosewallips	Jefferson Land Trust, State Parks, Jefferson County, HCCC, TNC	\$7,027,420	\$5,500,000	\$1,527,420	PSP, RCO, Jefferson County, SRFB	Begin to implement Dose Acquisition Phase 2	\$163,590	Begin to implement Mid-HC Dose Acquisition 2007	\$209,000			Begin to implement Mid-HC Dose Acquisition 2009 and State Park Acquisition	\$764,830	Community Outreach, Planning and Transactions, inc'g Jupiter Tracts	\$390,000	Community Outreach, Planning and Transactions; close Jupiter Tracts	\$5,500,000	Community Outreach, Planning and Transactions
1	6 of 17	1,3	Powerlines Lower Dosewallips wood-riparian restoration	WFC, USFS, Tribes, County	\$735,000	\$734,000	\$1000+	PSP, USFWS	Conifer Plantings	\$1,000	Feasibility/Design and Landowner Discussions	some work conducted as part of Upper Dose wood project	more outreach and land transactions	some work conducted as part of other projects	Riparian Assessment and project dev't		Planting and Exotic Control; sponsor dev't	?	Riparian Planting and exotic control	?	ELJ design begins; Riparian Planting and exotic control
1	7,5,9,5 of 17	1,2,3,5,7	Lower Dosewallips floodplain/estuary restoration and Dosewallips Estuary Phase 2 and 3	WFC, Tribes, State Parks	\$1,771,775	\$600,000	\$1,171,775	PSP, State Parks, BIA, SRFB, ESRP	Landowner Outreach, plantings, design, and permitting	?	Reach Assess, construction (remove 500ft RB levee below 101, installed 5 ELJs)	\$360,775	Deconstruct RB levee above SR101, cont reach assessment, Planting 0.5 acre	\$300,000	Finish reach assessment; planting and maintenance, Monitoring, \$ strategy	\$100,000	complete property transaction, install ELJs at estuary	\$411,000	RB armor and fill removal below 101 2000ft plus habitat and planting	\$600,000	Outyear planning for Brinnon levee improve and Sylopash Slough
1	16 of 17	2,7	Wolcott Slough Fishtrap Removal	HCSEG	\$78,000	\$0	\$78,000	ESRP	Construction	\$78,000	Monitoring	?	Monitoring	?	Monitoring	?	Monitoring	?			
1	10 of 17	3,4,5	USFS road decommission Dosewallips	USFS, Tribes, HCSEG	\$226,500	\$226,500	\$0	USFS, federal approp.											Design, Permitting	\$40,000	Construction
1	2,5,5 of 7	1,2,3,5	Lower and Middle Duckabush riparian-floodplain protection	Jefferson County and Jefferson Land Trust	\$2,000,000	\$1,321,048	\$678,952	PSP, RCO, Jefferson County, SRFB	Community Outreach		Begin Mid-HC Dose Acquisition 2007 (Fire Station & Ruiz)	\$303,000			Begin Mid-HC Dose Acq'n 2009 (2 JLT parcels)	\$375,952	Complete previous projects		Community Outreach, Planning and Transactions	?	Community Outreach, Planning and Transactions
1	2 of 7	1,3	Lower Duckabush riparian-floodplain restoration Phase 1	WFC, Jeff County, JLT	?	?	?	PSP, RCO, SRFB						Reach Assessment, Landowner Outreach		Feasibility/Design, Landowner Outreach	?	Feasibility/Design, Landowner Outreach; Permitting	?	Finish designs and \$ Strategy	
1	3 of 7	3,4,5	USFS road decommission Duckabush	USFS, Tribes, HCSEG	\$370,500	\$370,500	\$0	USFS, federal approp.										Design, Permitting	\$40,000	construction	
1	1.5 of 7	1,3	Middle Duckabush wood-riparian restoration phase 1	WFC, USFS and Tribes	\$2,219,570	\$2,000,000	\$219,570	PSP, USFS	Funding Strategy; Coordination		Feasibility/Design	\$100,000	Feasibility/Design cont'd	\$100,000	finish design concepts, scope LWD sources; riparian assessment	\$19,570	70% designs completed		finish permitting and construct 10-20 ELJs on private properties	\$1,000,000	More design phases and permitting
1	4.5 of 7	1,2,3,7	SR101 Causeway Replacement Duckabush	Army Corps, multiple?	\$20,132,140	\$19,900,000	\$232,140	PSAWR, ESRP, FHA, WSDOT, SRFB	101 estuary causeway removal study completed previously	\$132,140					10% design PSNERP	50000	35% design PSNERP	\$50,000	Funding Strategy	?	More Design
1	7 of 7	2,7	Robinson Road Levee Removal Duckabush	HCSEG	\$167,000	\$0	\$167,000	ESRP, SRFB, PSP	Design and permitting	\$20,000	Construction	\$147,000	Monitoring	?							
1	7 of 7	1,2,3,7	Pierce Creek culvert at Shorewood RD	Jefferson County and Jefferson Land Trust	\$235,000	\$225,000	\$10,000	PSP, ESRP, SRFB					Design	\$10,000			property transactions	cost included above	final design and permitting	\$25,000	construction
1		2,5	Duckabush Fire Station Fill Removal	HCSEG, Jeff Co	\$160,000	\$150,000	\$10,000	SRFB, PSAR					Design	\$10,000			land transaction	costs included elsewhere	permitting	?	construction and planting
1	4.5 of 6.5	1,2,7	Hama Hama Estuary Restoration Phase 1 and Phase 2	HCSEG	\$609,807	\$320,000	\$289,807	SRFB, LIP, NFWF, ESRP, PSP	Landowner Discussion and Design		Design	\$30,000	Design	?	Construction	\$259,807	landowner outreach for Phase 2	\$0	Design	20000	Construction
1	?	1,2,3,7	SR101 Causeway Replacement Hama Hama	Army Corps, multiple?	\$20,082,140	\$19,900,000	\$182,140	PSAWR, ESRP, FHA, WSDOT, SRFB	101 estuary causeway removal study completed previously	\$132,140					10% design PSNERP	50000			Funding Strategy	?	More Design
1	4.5 of 6.5	1,3	Upper Hama Hama riparian restoration	USFS	\$100,000	\$100,000	\$0	USFS, federal approp., other										Inventory, Exotic Control and Planting	\$30,000	design, planting, exotic and upland control	
1	6.5 of 6.5	3,4,5	USFS road decommission Hama Hama	USFS, Tribes, HCSEG	\$1,048,500	\$1,048,500	\$0	USFS, federal approp.											Design, Permitting	\$100,000	Permitting and Construction
1	NM	4,5	USFS Road Drainage and Stabilization	USFS	?	?	\$0	USFS, federal approp.											Permitting, Construction	\$100,000	Permitting, Construction

13												
2014												
Cost	Scope	Cost	Restor-ation Type	Location w/in watershed	Performance	Brief Description	Action #	HWS link	HWS link Cont.	3 YWP Project Name		
\$630,301	Construct ELJS in last 2 or 3 reaches (phase 3)	\$1,000,000	I,F,R	Mainstem	4 miles	Place log jams and increase wood loading by helicopter and/or conventional means in strategic locations, including 6 mile bridge, FS boundary, above Camp Acacia, Case Creek, and road washout	33,34,36,37,38,40	04-01-000	04-01-001, 04-01-003	USFS/Upper Dosewallips wood-riparian restoration		
?			L	Mainstem	300 acres potential; 157 acres in process	Protect high quality habitats and purchase impaired habitats for future restoration; includes planning effort	20,25,32	04-02-001, 04-02-002, 04-02-003, 04-02-004		Powerlines, Lazy C, Southshore riparian-floodplain protection Lower Dosewallips		
?	construction; riparian planting and exotic control	?	I,F,R	Mainstem		Improve instream wood loading rates and riparian conditions in the Powerlines Reach	21,23,24	Not in HWS		Powerlines Lower Dosewallips wood-riparian restoration		
?	monitoring	?	I,E,F,R	Estuary, Mainstem	40 acres marsh, 1000ft levees, 2000ft armor removal, 5 ELJs, multiple plantings	Improve riparian conditions, tidal inundation, and floodplain connection; feasibility study included	3,5,6,7,9,11,16	04-03-004,04-03-007	04-03-005	Lower Dosewallips floodplain/estuary restoration and Dosewallips Estuary Phase 2 and 3		
			E	Estuary	15 acres	Remove USFWS fishtrap and regrade salt marsh and tidal channels	14	04-03-002		Wolcott Slough Fishtrap Removal		
\$186,500	Construction	\$186,500	U	Headwater	6.5 miles	Decommission high priority roads for aquatic risk or convert them to trails	27,28,41	04-06		USFS road decommission Dosewallips		
?	Community Outreach, Planning and Transactions	?	L	Mainstem	200 acres potential; 26 acres in process	Protect high quality habitats and purchase impaired habitats for future restoration; includes planning effort	11,14	05-02-000	05-02-001	Lower and Middle Duckabush riparian-floodplain protection		
?	Construction	?	I,E,F,R	Mainstem		Improve instream wood loading rates and riparian conditions in the Lower Duckabush after protection efforts have advanced	11	Not in HWS		Lower Duckabush riparian-floodplain restoration Phase 1		
\$330,500	construction	\$330,500	U	Headwater	8.7 miles	Decommission high priority roads for aquatic risk or convert them to trails	9,10	05-06		USFS road decommission Duckabush		
?	finish permit and construct 10-20 ELJs on USFS	\$1,000,000	I,F,R	Mainstem		Place log jams and increase wood loading by helicopter and conventional means in strategic locations	12,13	05-01-000		Middle Duckabush wood-riparian restoration phase 1		
\$200,000	Final Design and Construct	\$19,700,000	E	Estuary		Continue feasibility studies to address benefits for retrofit, alternatives, and costs along the Duckabush causeway	2,3,5,6,7	PA 01-01-002		SR101 Causeway Replacement Duckabush		
			E	Estuary	2.6 acres	Obliterate levee on WDFW property, remove exotic invasive plant species	4	05-03-000		Robinson Road Levee Removal Duckabush		
\$200,000	monitoring	?	E,P	Estuary		Improve tidal inundation and fish passage under Shorewood Road	8	05-04-000		Pierce Creek culvert at Shorewood RD		
\$150,000			E,R	Estuary	2 acres	Remove landfill and replant streamside and upper estuary once property has been acquired through existing grant		05-03-001		Duckabush Fire Station Fill Removal		
\$300,000	?	?	I,W,E,P	Estuary	50 acres	Improve channel complexity and restore tidal channel habitats in Hama Hama Estuary (phase 1).	?	08-03-000		Hama Hama Estuary Restoration Phase 1 and Phase 2		
\$200,000	Final Design and Construct	\$19,700,000	E	Estuary		Continue feasibility studies to address benefits for retrofit, alternatives, and costs along the Hama Hama causeway	2,3,5,6,7	08-03-001		SR101 Causeway Replacement Hama Hama		
\$35,000	planting, exotic and upland control	\$35,000	R	Mainstem		Improve riparian conditions in non-anadromous reaches to address identified sediment and temperature inputs	12,13,14	Not in HWS		Upper Hama Hama riparian restoration		
\$500,000	?	?	U	Headwater	27.1 miles	Decommission high priority roads for aquatic risk or convert to trails	7,8	08-06		USFS road decommission Hama Hama		
\$100,000	Permitting, Construction	\$100,000	U	Headwater	?	Stabilize high priority roads for aquatic risk; ongoing USFS maintenance		08-06		USFS Road Drainage and Stabilization		

Projects represent all 4 priority Domains to allow more comprehensive tracking of salmon recovery while supporting community values.										2007		2008		2009		2010		2011		2012		2013
Domain Priority	Bio Rank / EDT	Primary Limiting Factors	Action name and description	Likely sponsor	Total cost	Unfunded Portion	Existing Funding	Source of other funds	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	
										\$526,870		\$1,249,775		\$520,000		\$1,639,729		\$881,000		\$7,824,699		
Skokomish-Lilliwaup																						
1		1,3,4,5,6,7	Army Corps General Investigation for restoration feasibility	Skokomish Tribe and Mason County,USACE	\$2,120,276	?	\$2,120,276	federal approp., Mason County, Skok Tribe	Cost share agreement, assessments	\$1,041,276	Assessment	\$300,000	Assessment	\$429,000	Develop alternatives, expand PMP	\$350,000	complete without project report, develop and assess alternatives	?	Select preferred alternative and begin documentation	?	Complete EIS	
1		1,3,4,5	Vance Creek Assessment and Design	Skokomish Tribe	\$130,000	\$0	\$130,000	SRFB, PSP, Skok Tribe			BOR selected, asses't designed, outreach	\$30,000	field work and modelling	90,000	Assessment Completed	\$10,000	design completed, funding strategy	?	Construction, More Design	?	Construction, More Design	
1		2,7	Skokomish Estuary Restoration Phase 2 - Nalley Island	Skokomish Tribe	\$4,648,776	\$100,000	\$4,548,776	PSP, Mason PUD, SRFB, NOAA, USFWS	Design	?	Design	\$50,000	Final Design, Permitting	\$50,000	Final Design, construction, monitoring	~2,500,000	monitoring	\$50,000	monitoring	\$50,000	monitoring	
1		2	Skokomish Estuary Restoration Phase 3- Skokomish Flats	Skokomish Tribe	\$195,000	\$195,000	\$0	ESRP, PSP, SRFB, NOAA							Design, funding strategy	\$25,000		permitting and construction		\$150,000	monitoring	
1		2,7	Skokomish Estuary Restoration Phase 4- Eastshore 6 acre fill removal	Skokomish Tribe	\$400,000	\$400,000	\$0	ESRP, PSP, SRFB, NOAA										property transactions		\$200,000	design and permitting	
1		2	Skokomish Estuary Restoration Phase 5 - Westshore Road Estuary Remediation	Skokomish Tribe	\$200,000	\$200,000	\$0	ESRP, PSP, SRFB, NOAA							Scope preliminary design, funding strategy	\$10,000		design and permitting		\$30,000	construction	
1		2,3,7	Potlach State Park Restoration Lake Cushman passage down/upstream	Skokomish Tribe and WA State Parks	\$125,000	\$120,000	\$5,000	BIA			design	\$5,000					design, permitting	\$20,000	design and permitting; scope shoreline remediation	\$100,000	preliminary design	
1		7		Tacoma Power	?	?	?	TP	settlement talks		settlement talks		agreement		FERC License and design			construction			monitoring	
1		1,3,4,5,6	North Fork Flow Restoration Gibbons Creek Fish Passage with Bridge	Tacoma Power	\$1,500,000	\$0	\$1,500,000	TP	Construction	\$1,500,000		Hydrological Assessment for next phase	?	implementation of early components	?	implement additional components after License issued	?	adaptive management		adaptive management		adaptive management
4		1,3,5,6,7	Frigid Creek Culvert Replacement Design	GD, USFS, MCD	\$300,000	\$0	\$300,000	SRFB, Joint Venture, GD			design, permitting	\$50,000	construction	\$250,000								
4		1,3,5,6,7		GD, USFS, MCD	\$27,236	\$27,236	\$0	GD, Joint Venture					scoping		preliminary design		design and permitting	\$27,236				
3		1,3,5,6,7	McTaggart Diversion Dam Removal	Tacoma Power	?	?	?	TP			preliminary design			?	monitoring	?						
3			McTaggart Culvert Replacements	Tacoma Power	?	?	?	USFS?, TP?			preliminary design			?	monitoring	?						
1		1,3	Lower Skobob Creek Complexity	Skokomish Tribe	\$125,000	\$125,000	\$0	BIA, PSP, SRFB, PSP, Corps,									design, funding strategy		\$5,000		design, permitting, construction	
1			ELJs in mainstem, Vance Five Mile Creek Engineered Log Jams	Skokomish Tribe, multiple	?	?	?	Skokomish CSE, NRCS, WHIP, SRFB			coordinate with GI	\$0	coordinate with GI	\$0			design, permitting in mainstem, Vance	?	design, permitting	?	design, permitting, construction	
1		1,3,5		MCD	\$95,000	?	?	CSE, NRCS, WHIP, SRFB			design, permitting	?		?	redesign and seek more funding	?	construct	\$95,000				
1		1,3	ELJs in North Fork	Skokomish Tribe	?	?	?	SRFB, PSP, Skokomish					Global agreement		redesign and seek more funding	?	reach assessment, concept design	?	design, permitting, construction	?	design, permitting, construction	
1		1,3	Upper South Fork, Holman Flats, and Tributary Floodplain-Channel-Riparian Restoration	Skokomish Tribe and USFS	\$2,230,000	\$900,000	\$1,330,000	SRFB,PSP, USFWS,NFWF, USFS, TP			feasibility	\$63,500	design, permitting	\$140,000	final design, wood stockpiling, construction	\$1,030,000	monitoring, begin funding strategy for Phase 2 on TP land	?	design and permitting; construction TP South Fork	\$900,000		
1		1,3,4,5,6,7	Car-body Levee Removal and Channel Complexity	NRCS, Skokomish Tribe, and/or landowner	?	?	?	NRCS, TP, SRFB, PSP, Corps			Design within GI	\$0	Design within GI	\$0	Design within GI	\$0	Design within GI	\$0	design and permitting	?	Construct	
1		1,3,4,5,6,7	Skokomish River and Bourgault Road Partial Removals	Tribe	\$200,000	\$0	\$200,000	USFWS, WSDOT			design	\$0	design permitting	?	construction, monitoring	\$200,000	monitoring	?	monitoring	?	assess remaining roadway	
1		1,3,4,5,6,7	Dike Removal and/or setbacks-TBD by GI	multiple	?	?	?				design within GI	\$0	Design within GI	\$0	Design within GI	\$0	Design within GI	\$0	design and permitting	?	design and permitting and construction	
1		1	SR101 and SR106 road prisms/bridges - TBD by GI	WSDOT, multiple	\$10,704,510	?	\$10,704,510	WSDOT, FHA	moving ahead with Purdy, wait to coord on others with GI	\$0	construct Purdy	\$5,210,390	construct, more design within GI	\$5,494,120	Design within GI	\$0	Design within GI	\$0	design and permitting	?	construct, more design	
1		1,5,6	Silviculture Treatments for increased hydrologic maturity	USFS, SWAT	?	?	?	federal approp., PSP, stewardship receipts?					design, permitting	?	implementation, design, permitting	?	implementation, design, permitting	?	implementation, design, permitting	?	implementation, design, permitting	
1		1,3,4,5,6,7	Protect habitats through conservation tools	multiple	\$4,300,000	\$1,500,000	\$2,800,000	SRFB, PSP, TP, Mason County, Tribe	strategy, landowner outreach, land transactions (Bourgault right bank)	\$0	strategy, landowner outreach, land transactions	\$0	strategy, landowner outreach, transactions (CREP, floodplain easement)	\$300,000	strategy, landowner outreach, transactions (estuary)	\$2,000,000	strategy, landowner outreach, transactions (confluence/Dips)	\$500,000	strategy, landowner outreach, transactions	\$500,000	strategy, landowner outreach, transactions	
1		1,3,4,5	Farm Plans, and BMPs	MCD, multiple	\$550,000	\$300,000	\$250,000	NRCS, MCD, Landowner	landowner outreach, fencing, farm plans	\$50,000	landowner outreach, fencing, farm plans	\$50,000	landowner outreach, fencing, farm plans	\$50,000	landowner outreach, fencing, farm plans	\$100,000	landowner outreach, fencing, farm plans	\$100,000	landowner outreach, fencing, farm plans	\$100,000	landowner outreach, fencing, farm plans	

13	2014		Restor-ation Type	Location w/in watershed	Performance	Brief Description	Action #	HWS link	HWS link Cont.	3 YWP Project Name
Cost	Scope	Cost								
\$2,832,301										
?		?		Mainstem		Complete general investigation as a mechanism for a consensus-based road map to improving floodplain and channel functions		10-01		Army Corps General Investigation for restoration feasibility
?			F,I,L	Mainstem	1 mile of stream	Conduct landowner outreach, survey, and design for conservation and restoration actions in the summer chum and chinook reaches; construct in phase 2		10-01-008		Vance Creek Assessment and Design
\$50,000			E	Estuary	400 acres, remove 10 miles levees, roads, ditches	Obliterate levees, borrow ditches, and tidegates on Nalley Island; install new powerlines with Mason PUD		10-03-001		Skokomish Estuary Restoration Phase 2 - Nalley Island
\$10,000	monitoring	\$10,000	E	Estuary	10 acres, 1000ft levee	Lower berm in Phase 1 down further in limited area, remove bridge landing, topography modification, restore hydrology across Skok Flats RD		10-03-002		Skokomish Estuary Restoration Phase 3- Skokomish Flats
\$25,000	construction	\$175,000	E, L	Estuary	6 acres	Remove fill and old access road in the eastern cell of the lower Skokomish Estuary		10-03-003		Skokomish Estuary Restoration Phase 4- Eastshore 6 acre fill removal
\$150,000	monitoring	\$10,000	E	Estuary	40 acres, multiple improved road crossings	Retrofit powerline access road crossings at key tidal channels, reroute road where necessary		10-03-004		Skokomish Estuary Restoration Phase 5 - Westshore Road Estuary Remediation
			M	Marine	600 ft new channel, remove 1 barrier	Reroute Potlach Creek; investigate fill removal in historic salt marsh; revegetate shoreline		Not in HWS		Potlach State Park Restoration
	monitoring		P	Mainstem	Remediate fish barrier	Create upstream and downstream passage past Cushman Project		Not in HWS		Lake Cushman passage down/upstream
			I	Mainstem	Increased flows	Add Cone Valve to Cushman Project to allow quantity and quality of outflow to improve North Fork and Skokomish Mainstem; continue discussions on re-establishing normative flow regime; implement		Not in HWS		North Fork Flow Restoration
			P	Tributary	remove 1 barrier, install LWD	Fish passage and stream improvement to a significant amount of spawning and rearing area for steelhead and cutthroat		10-04-000		Gibbons Creek Fish Passage with Bridge
			P	T	remove 2 barriers	2 fish passage projects at upper extent of Frigid Creek for steelhead (?) and cutthroat		10-04-001		Frigid Creek Culvert Replacement Design
			P+	Tributary	remove 1 barrier, restore X cfs to north fork	Remove Tacoma Power diversion dam in upper North Fork Skokomish to restore fish passage, habitat, and water quantity		10-04-002		McTaggart Diversion Dam Removal
			P	Tributary	remove 2 barriers	Replace 2 fish passage barriers in upper North Fork Skokomish		10-04-003		McTaggart Culvert Replacements
\$120,000			I,W	Tributary	4000 feet	Place woody debris by helicopter to improve rearing habitat in tidal creek system		10-01-014		Lower Skobob Creek Complexity
?	design, permitting, construction	?		Tributary	?	General category of restoration as a placeholder for results of General Investigation		Not in HWS		ELJs in mainstem, Vance
			I,F	Mainstem	460 feet	Install 5 log jams approximately 1/2 mile upstream of old North Fork confluence		10-01-005		Five Mile Creek Engineered Log Jams
?				Tributary	multiple miles	General category of restoration as a placeholder for results of license agreement and subsequent planning for spring chinook		Not in HWS		ELJs in North Fork
			I,F	Mainstem	4 miles	Haul woody debris by helicopter and place in channel by conventional means; start in USFS and TP Holman Flats and move through upper south fork and tributary junctions; riparian plantings		10-01-007		Upper South Fork, Holman Flats, and Tributary Floodplain-Channel-Riparian Restoration
?	monitoring	?	I,F,R	Mainstem	1.5 miles	Deconstruct levee system at historic confluence of North and South Forks, enhance resulting channels		10-01-015		Car-body Levee Removal and Channel Complexity
?			F,W	Mainstem	0.5 miles	Deconstruct abandoned road system to reconnect adjacent wetlands and floodplains to the lower Skokomish River; Bourgault was WSDOT mitigation site, River RD was USFWS funded		Not in HWS		Skokomish River and Bourgault Road Partial Removals
?	additional construction	?	I,W,R,F	Mainstem	?	General category of restoration as a placeholder for results of General Investigation		Not in HWS		Dike Removal and/or setbacks-TBD by GI
?	?	?	W,F	Mainstem		In addition to general category of restoration as a placeholder for results of General Investigation, also includes Purdy Creek 101 rebuild		Not in HWS		SR101 and SR106 road prisms/bridges - TBD by GI
?			U	Headwaters		Increase hydrologic maturity within Skokomish basin		Not in HWS		Silviculture Treatments for increased hydrologic maturity
\$500,000	strategy, landowner outreach, transactions	\$500,000	L	Mainstem	700 acres, 4 miles	Protect high quality habitats and purchase impaired habitats for future restoration		10-02		Protect habitats through conservation tools
\$100,000	landowner outreach, fencing, farm plans	\$100,000	R	Mainstem and Tributaries	2 miles	Work with Mason Conservation District and private landowners to improve stewardship through public incentive programs such as Farm Plans Cost Share, Environment Quality Improvement Program, Wildlife Habitat Improvement Program, and BMP construction		Not in HWS		Farm Plans, and BMPs

Projects represent all 4 priority Domains to allow more comprehensive tracking of salmon recovery while supporting community values.									2007		2008		2009		2010		2011		2012		2013			
Domain Priority	Bio Rank / EDT	Primary Limiting Factors	Action name and description	Likely sponsor	Total cost	Unfunded Portion	Existing Funding	Source of other funds	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost				
1		1,3,4,5	Riparian plantings and noxious weed control	MCD, multiple			\$404,044	NRCS, USDA, SRFB, PSP					design, scoping, planting		scoping, planting, inventory and control	\$404,044	scoping, planting, inventory and control		scoping, planting, inventory and control		scoping, planting, inventory and control			
1		4,5,6,7	USFS Road Decommission - North Fork 14km	USFS and SWAT	?														design, permitting	\$30,000	construction			
1		4,5,6,7	USFS Road Decommission - South Fork 93km	USFS and SWAT	\$10,033,400	\$9,433,400	\$600,000	federal approp., SRFB, PSP, EPA, USFS	construction, design, permitting	?	construction, design, permitting	\$600,000	construction, design, permitting	\$3,010,020	construction, design, permitting	\$3,511,690	construction, design, permitting	\$2,911,690	construction, design, permitting	?	construction			
1		4,5,6,7	USFS Road Decommission - Vance Creek 6km	USFS and SWAT	?														design, permitting	\$30,000	construction			
1		4,5,6,7	Road Drainage and Stabilization - South Fork	USFS and SWAT	\$2,128,400	?	?	federal approp., SRFB, PSP, EPA, USFS	planning, permitting, construction	?	planning, permitting, construction	\$638,460	construction, BMPs	\$744,970	construction, BMPs	\$744,970	?	?	?	?	?	?		
1		4,5,6,7	Road Maintenance	USFS and SWAT	476,250	?	?	federal approp., SRFB, PSP, EPA, USFS	construction	?	construction	\$142,875	construction	\$166,688	construction assessment and design	\$166,687	construction final design and funding strategy	?	construction	?	construction	?		
1		1,2,3,7	Lilliwaup Instream Restoration	LLTK	60,000	455,500	\$60,000	SRFB, in-kind		\$2,591,276		\$7,135,225		\$10,729,798		\$8,612,391		\$3,759,426	construction	\$400,000	monitoring			
Eastern Straits																								
1		2,3,5,7	Snow/Salmon Estuary and Wood Waste Restoration, plus	NOSC, WDFW, DNR, JCD	\$1,690,215	\$0	\$1,690,215	DNR, WDFW, NOAA, PSP, SRFB, Oil Spill	final design, permitting; derelict building removal	\$100,000	construction, replanting	\$1,460,215	monitoring, planning, planting	\$20,000	monitoring and planting and property transaction	\$90,000	monitoring; demolition of Pflueger	\$40,000	monitoring	?				
1		2,7	Snow/Salmon Estuary Railroad Grade Removal Feasibility and Design	NOSC, WDFW, JCD	\$100,000	\$0	\$100,000	SRFB, PSP			scoping	\$0	feasibility and design	\$50,000	preliminary designs and partner coordination	\$50,000	continue design in restoration phase							
1		2,3,5,7	Snow/Salmon Railroad Grade Removal	NOSC, WDFW, JCD	\$200,000	\$200,000	\$0	NOAA, PSP											further scoping and funding strategy	\$0	final design and construction			
1		2,3,5	Snow Creek Delta Cone and Estuary Design	NOSC	\$199,295	\$0	\$199,295	NOSC											continue design, permitting	\$199,295	funding strategy	?		
1		2,3,5	Snow Creek Delta Cone and Estuary Restoration	NOSC, WDFW, JCD	\$800,000	\$800,000	\$0	NOAA, PSP, NRCS											further scoping and funding strategy	\$0	final design	?	construction	
1		2,3,5	Maynard Nearshore Restoration	NOSC, WDFW, JCD, JMRC	\$670,000	?	?	NOAA, PSP, JMRC, SRFB							further scoping and funding strategy	\$0	final design and construction	\$200,000	monitoring	?				
1		1,2,3,6	Snow/Salmon Reconnection Feasibility and Design	WDFW, NOSC, JCD	\$10,000	\$0	\$10,000	private donation, ESRP, PSP	feasibility, planning	\$10,000	Put on hold due to hydrology impacts on adjacent structures/bridge and landowner issues	\$0	further scoping		further scoping		further scoping							
1		3,5	Snow/Salmon Riparian Restoration	JCD, NOSC, WDFW, Noxious Weed Board	\$518,461	\$216,000	\$302,461	SRFB, CREP, PSP	planting, fencing, etc not included in cost		landowner contacts, planting on WDFW, Houck, Compass Rose, bridge on Bowman	\$218,461	maintenance, assessment, new estuary plantings	\$50,000	maintenance, assessment, new estuary plantings, DFW connector	\$50,000	maintenance, assessment, planting for Hwy20, Hwy 104, Upper Salmon, Mid Salmon, Lower Disco Bay	\$50,000	maintenance, assessment, planting for Upper Snow, etc	\$50,000				
1		1,3,4,5,6	Snow/Salmon Floodplain and Nearshore Protection	Jefferson Land Trust, NOSC, JCD, WDFW	\$1,225,000	\$500,000	\$725,000	USFWS, IAC, PSP, SRFB	transactions not included in costs		transactions	\$300,000	Ruck	\$425,000	Snow Ck estuary parcels, given willingness redesign and temporary passage construction	\$200,000	transactions	\$100,000	transactions	\$200,000				
1		1,3,7	West Uncas Road Culvert Retrofit Design	NOSC, Jefferson County	\$11,000	\$0	\$11,000	NOAA, American Rivers, PSP, JC					Design and survey	\$10,000										
1		7	West Uncas Road Culvert Replacement	NOSC, JCD, WDFW, Jeff County	\$25,000	\$0	\$25,000	PSAR, Jefferson County														landowner contacts, final design, permitting, construction		
1		1,3,4	Snow Creek LWD Restoration Design	NOSC, JCD	\$100,000	\$100,000	\$0	PSP, SRFB											landowner contacts, survey, design	\$100,000	construction			
1		4,5,6,7	Snow/Salmon Road Decommissioning and Stabilization	USFS, NOSC	\$150,000	\$150,000	\$0	USFS, SRFB, PSP														Design	\$30,000	Permitting and construction
1		2,7	Fairmount Marsh Restoration	JCD, MRC, NOSC	\$125,000	\$100,000	\$25,000	ESRP, PSP	design	\$25,000	landowner discussions	\$0	landowner discussions	\$0	landowner discussions	\$0	landowner discussions	\$0	landowner discussions	\$0			landowner discussions	
2		1,3,5	Chimacum Creek Priority Lands Conservation	Jefferson Land Trust, NOSC, JCD	\$1,800,000	\$900,000	\$900,000	RCO, Jeff Co Conservation Futures, PSP	transactions, landowner contacts (cost not included)		landowner contacts, transactions	\$300,000	transactions	\$300,000	transactions	\$300,000	transactions	\$300,000	transactions	\$300,000			transactions	
2		1,3,4,5,7	Chimacum Creek Channel Restoration	JCD, NOSC	\$500,000	\$300,000	\$200,000	SRFB, NRCS	construction (cost not included)		construction	\$100,000	design, permitting, construction	\$100,000	design	?	design, permitting, construction	?						

13	2014																		
Cost	Scope	Cost	Restor-ation Type	Location w/in watershed	Performance	Brief Description	Action #	HWS link	HWS link Cont.	3 YWP Project Name									
	scoping, planting, inventory and control			Mainstem and Tributaries	4 miles	MCD and Mason County Noxious Weed Board to conduct outreach to private and public landowners to control knotweed and plant both agricultural openings and existing, alder-dominated riparian areas		10-05	18-02	Riparian plantings and noxious weed control									
?			U	Headwaters	8.7 miles	Decommission high priority roads for aquatic risk		10-06-004		USFS Road Decommission - North Fork 14km									
?	construction	?	U	Headwaters	70.5 miles	Decommission high priority roads for aquatic risk		10-06-003		USFS Road Decommission - South Fork 93km									
?			U	Headwaters	3.7 miles	Decommission high priority roads for aquatic risk		10-06-011		USFS Road Decommission - Vance Creek 6km									
?	?	?	U	Headwaters	149 miles	Stabilize roads to reduce aquatic risk		10-06-002		Road Drainage and Stabilization - South Fork									
?	?	?	U	Headwaters		Maintain roads to reduce aquatic risk through annual maintenance program		Not in HWS		Road Maintenance									
?			I,E,R,F	Mainstem	4000 feet	Work with landowners to design restoration project to remove fill and aggraded sediments in lower floodplain, enhance woody debris, and replant riparian areas		09-01-000		Lilliwaup Instream Restoration Design									
\$955,000																			
			E	Estuary	20 acres	Remove abandoned wood waste pile, remove derelict structures and remediate soil, create new habitat south of highway; conserve Snow Creek Hwy 20 Pfeleger parcel		01-03-003; 01-03-002; 01-03-000; 01-03-001	01-02-010	Snow/Salmon Estuary and Wood Waste Restoration, plus									
			E	Estuary		Assess options for removing railroad causeway in lower estuary		01-03-005		Snow/Salmon Estuary Railroad Grade Removal Feasibility and Design									
\$200,000	monitoring	?	E	Estuary	20 acres	Implement selected alternative to remove abandoned railroad grade in southern estuary between Snow and Salmon Creeks		01-03-006		Snow/Salmon Railroad Grade Removal									
			E	Estuary		Develop final design for Snow Creek Estuary restoration, including floodplain and tidal prism below SR101.		01-03-008		Snow Creek Delta Cone and Estuary Design									
\$800,000			E	Estuary	12 acres	Implement selected alternative to restore floodplain and tidal prism below SR101, as scoped by the RR Grade Removal study and Delta Cone Removal and Estuary Design		01-03-009		Snow Creek Delta Cone and Estuary Restoration									
			E	Estuary	10 acres	Implement selected alternative to enhance railroad grade in northwestern estuary, including riprap removal, cherry pond connection, contaminated sediments, forage fish, small stream culvert daylighting, and bridge removal		01-03-004		Maynard Nearshore Restoration									
	further scoping		I,W,R,F	Mainstem	1 mile	Assess benefits and feasibility of reconnecting Snow and Salmon Creeks; design construction plans		01-01-001		Snow/Salmon Reconnection Feasibility and Design									
\$50,000	maintenance, assessment, planting	\$50,000	R	Mainstem	30 acres	Plant native vegetation and assess/control exotic invasives; install livestock exclusion fencing, add BMPs, and alternative water systems		01-05,01-05-000,01-05-010,01-05-011,01-05-013,01-05-014	18-01	Snow/Salmon Riparian Restoration									
			L	Mainstem	200 acres	Protect high quality habitats and purchase impaired habitats for future restoration in floodplains and estuary; includes planning effort to work with willing landowners		01-02		Snow/Salmon Floodplain and Nearshore Protection									
			I,P,F	Mainstem		Assess design options and costs for replacing culvert with bridge to ease passage and restore habitat forming processes; temporarily provide for passage with sand bag weirs. Permitting agency denied request for retrofit. Culvert replacement is the only viable option for permitting purposes.		01-04-000		West Uncas Road Culvert Retrofit Design									
\$25,000	monitoring	?	I,P,F	Mainstem	1 mile	Implement selected alternative to replace West Unca's RD culvert passage problem		01-04-001		West Uncas Road Culvert Replacement									
?	construction	?	I	Mainstem	1 mile	Landowner outreach, feasibility, and design of project to improve channel complexity and instream functions through summer chum range		01-01-002		Snow Creek LWD Restoration Design									
			U	Headwaters	7 miles	Decommission, convert to trail, or stabilize highest priority roads for aquatic risk		01-06-001; 01-06-002; 01-06-003; 01-06-004; 01-06-005		Snow/Salmon Road Decommissioning and Stabilization									
\$120,000			M	Marine	8 acres, 800 feet channel?	Remove abandoned causeway to restore pocket marsh habitat adjacent to Snow/Salmon watershed; replace bulkhead with softshore protection; project indefinitely on hold given landowner concerns		01-03-007		Fairmount Marsh Restoration									
\$0	construction?	\$100,000	L	Mainstem	500 acres	Protect high quality habitats and habitats for restoration in summer chum range; maintain headwater working forests		02-02		Chimacum Creek Priority Lands Conservation									
\$300,000	transactions	\$300,000	I,W,R,P,F	Mainstem	2 miles	Improve stream and floodplain habitat conditions in Chimacum Watershed through channel improvements and wood addition		02-01		Chimacum Creek Restoration									

Projects represent all 4 priority Domains to allow more comprehensive tracking of salmon recovery while supporting community values.									2007		2008		2009		2010		2011		2012		2013
Domain Priority	Bio Rank / EDT	Primary Limiting Factors	Action name and description	Likely sponsor	Total cost	Unfunded Portion	Existing Funding	Source of other funds	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	
2		3,5	Chimacum Creek Riparian Restoration	JCD, NOSC	\$750,000	\$450,000	\$300,000	SRFB, NRCS, FSA	multiple		multiple		multiple	?	Chim. Beach planting, solanum assessment/ control, maintenance	?	planting, landowner contacts, solanum assessment/ control, maintenance	?	maintenance, planting, landowner contacts	?	maintenance, planting, landowner contacts
2		2,3	Chimacum Estuary Restoration Phase 2	NOSC, WDFW	\$300,000	?	?	SRFB, ESRP, Ecology, PSP							pre-design	\$20,000	final design, permitting, construction	\$260,000	monitoring	\$20,000	
2		2,7	Kilist Harbor/Oak Bay Reconnection	JSKT, WSDOT, WDFW, NOSC	\$2,000,000	\$1,980,000	\$20,000	WSDOT, ESRP, USACE			discussion	\$0	discussion	\$0	Discussion	\$0	feasibility from PSNERP, 30% design, funding strategy	\$20,000	funding strategy and further design	\$20,000	design and permitting
4		2	Oak Bay Park Sand Lance Habitat Restoration	JCD, Jefferson County, MRC	\$250,000	\$200,000	\$50,000	ESRP, PSP, SRFB, NWSI			discussion	\$0	feasibility and design	\$25,000	cultural resource review		cultural resource review		design and permitting	\$25,000	construction
4		2	Fort Townsend State Park Shoreline Restoration	MRC, State Parks	\$250,000	\$250,000	\$0	NWSI, State Parks			discussion	\$0	discussion	\$0	funding strategy	0			design and permitting	\$50,000	construction
										\$135,000	\$2,378,676	\$980,000	\$711,000	\$869,295	\$745,000						
Quilcene																					
2		2	Tarboo/Dabob Bay Protection	NWI, TNC, DNR, Tribes, Jefferson Land Trust	\$29,000,000	\$14,000,000	\$15,000,000	USFWS, SRFB, ESRP, Trust Land Transfer			Transactions	\$2,000,000	transactions	\$5,000,000	Transactions	\$10,000,000	Transactions	\$10,000,000	transactions	\$2,000,000	transactions
4		2,5	Tarboo/Dabob Bay Nearshore Restoration	NWI, TNC, DNR, Tribes, Jefferson Land Trust	\$3,000,000	\$2,000,000	\$100,000	USFWS, NOAA, ESRP, SRFB			landowner outreach, early projects	\$40,000	landowner outreach, design and permitting	\$60,000	landowner outreach, construction, more design	\$200,000	landowner outreach, construction, more design	\$1,000,000	landowner outreach, construction, more design	\$1,700,000	
1		1,3,5,6	Big and Little Quilcene Floodplain and Estuary Protection	Jefferson Land Trust, HCSEG, Tribes, Jefferson County	\$1,835,000	\$1,250,000	\$585,000	RCO, Jeff Co Conservation Futures, PSP, USFWS	Transactions in progress	\$250,000	Landowner Contacts, appraisals, transactions	\$350,000	transactions	\$250,000	funding strategy and appraisal	35000	transactions, including lower Big Quilcene Estuary (newman)	\$750,000	two proposed lots in BQ Linger Longer; additional in Brush Plant RD reach in LQ	\$250,000	transactions
1		2,7	Quilcene Wetlands Restoration - Schinke	HCSEG, NRCS, WDFW, USFWS	\$800,000	\$0	\$800,000	SRFB, USFWS, Landowner, NRCS, Priv. Business, LIP	design, funding strategy, permitting	\$100,000	construction	\$700,000	monitoring	?							
1		2,7	WDFW Abandoned Wildlife Pond	HCSEG, WDFW	\$300,000	\$0	\$300,000	SRFB, ESRP	design, permitting	\$10,000	construction	\$290,000	monitoring	?	monitoring	?	monitoring	?			
1			Big Quilcene Estuary South Bank Levee Removal	HCSEG, WDFW	\$620,000	\$500,000	\$120,000	PSAR, ESRP							funding strategy and 10% design	\$20,000	35% Design	\$100,000	final design and permitting	\$100,000	construction
1		1,2,3,6,7	Linger Longer Reach Restoration	Jefferson County, WDFW, Tribes	\$6,000,000	\$6,000,000	\$0	PSP, SRFB, ?	finish linger longer assessment	\$60,000	Develop funding strategy; continue land transactions as appropriate	\$0			funding strategy and 10% design	see south bank levee above	35% Design	see south bank levee above	final design and permitting	see south bank levee above	construction
1		1,3	Big Quilcene Wood Enhancement	Skokomish Tribe, HCSEG	\$1,425,000	\$200,000	\$1,225,000	SRFB, Skokomish Tribe, PSP, LIP	design, permitting	\$70,000	design, levee removal study (see below)	\$60,000	construct phase 1, design phase 2	\$320,000	construct phase 2 complete study, integrate into Phase 2 above	\$775,000	Design Phase 3	?	construct phase 3, monitoring; further design?	\$200,000	construct additional phase?
1		1,3	Big Quilcene Levee Removal Feasibility - Baclawski	Skok Tribe, HCSEG, JCCD	\$64,000	\$0	\$64,000	SRFB, NFWF			Feasibility and Conceptual Design Study	\$64,000									
1			Big Little Quilcene Riparian Restoration	HCCC, JCCD, noxious weed board											Brush Plant RD, Leland Creek, multiple noxious weed parcel; maintenance	\$100,000	knotweed phase 4 and planting plans and maintenance analysis and feasibility	\$50,000	implement planting plans and maintenance	?	
1		1,3	Little Quilcene McInahan Reach Restoration	HCSEG	\$210,000	\$210,000	\$0	HCSEG, PSP	land transaction (not included in cost)										permitting and construction	\$150,000	monitoring
1			Little Quilcene Brush Plant RD Reach Restoration	HCCC, JCCD, HCSEG	\$205,000	\$0	\$205,000	SRFB, PSP, NFWF			reach assessment and prelim design with landowners	?			funding strategy, permitting and design	\$20,000	finish design and permitting; construction	\$185,000	monitoring	?	
1		2	Little Quilcene Delta Cone Removal	HCSEG, WDFW	\$950,000	\$0	\$950,000	SRFB, PSP			design	\$100,000	permitting, construction	\$800,000	complete construction; monitoring	\$30,000	monitoring	\$10,000	monitoring	\$10,000	
1		2,7	Little Quilcene Estuary Restoration	HCSEG, NRCS, WDFW, Jefferson County, Tribes	\$1,665,000	\$0	\$1,665,000	SRFB, NRCS, Jefferson County, PSP, ESRP	design, permitting of river project; construct donovan bridge		construction, land transaction (not included in cost)	\$1,665,000	monitoring	?	monitoring	?	monitoring	?	monitoring	?	
1		2,3	Quilcene Bay/Donovan Creek Acquisition and Restoration	WDFW, TNC, JCCD, JLT, HCSEG	\$1,040,084	\$0	\$1,040,084	USFWS, JLT, TNC									land transactions, restoration	\$1,020,084	monitoring	?	monitoring
										\$490,000	\$5,269,000	\$6,430,000	\$11,180,000	\$12,195,000	\$4,410,000						
Union and Tahuya																					

Projects represent all 4 priority Domains to allow more comprehensive tracking of salmon recovery while supporting community values.									2007		2008		2009		2010		2011		2012		2013	
Domain Priority	Bio Rank / EDT	Primary Limiting Factors	Action name and description	Likely sponsor	Total cost	Unfunded Portion	Existing Funding	Source of other funds	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	
1		1,2,3,7	Union Estuary Johnson Farm Restoration Design	HCSEG, WDFW, PNWSC	\$130,800	\$0	\$130,800	HCSEG, SRFB, PSP	land transaction (not included in total cost)		land transaction (not included in total cost), investigations		scoping and various investigations, fund design study	\$20,000	public process, final design, permitting	\$100,000	select final alternative, permitting, funding strategy	\$10,800				
1		1,2,3,8	Union Estuary Johnson Farm Restoration - Construction	HCSEG, WDFW, PNWSC	\$2,000,000	\$2,000,000	\$0	federal, SRFB, NRCS													construction	
1		1,2	Union and Tahuya River Floodplain and Estuary Protection	HCSEG, CLC	\$500,000	\$500,000	\$0	SRFB, Mason County, CLC, PSP									strategy, outreach	?	transactions	\$300,000	transactions	
1		1,3,5	Union and Tahuya River Floodplain and Channel Enhancement	HCSEG, WDFW	\$1,112,352	\$600,000	\$512,352	SRFB, NFWF, WDFW, USFWS, PSP	implement several smaller projects	?	survey and design 2 LIP projects	?	construct 2 LIP projects Union; lower tahuya reach assessment and design for LWD	\$309,337			construct Tahuya LWD	\$203,015	design and construction	\$300,000	design and construction	
1		1,2,3,5	Union and Tahuya Riparian Restoration	HCSEG, MCD	\$340,000	\$300,000	\$40,000	HCCC, PSAR, FSA					tahuya riparian reach assessment	\$15,000	landowner discussion, design, funding strategy; union assessment	\$25,000	lower tahuya planting plans and planting	\$100,000	planting and maintenance	\$100,000	planting and maintenance	
1		2,3,7	Klingel Estuary Wetland and Riparian Restoration	GPC, NRCS	\$525,000	\$0	\$525,000	SRFB, NRCS, PSP							final design, permitting, construction, planting	\$380,000	planting (not included in cost), complete construction, monitoring	\$25,000	monitoring	?	monitoring	
1 or 2		1,3,4,5,6	Tahuya to Union Headwaters Conservation	WDFW, DNR, HCA, CLC	\$6,650,000	\$0	\$6,650,000	Forest Legacy, IAC	expand project Design and partner building; funding	?	Appraisal, Negotiations	?	Transactions	\$6,100,000			transactions with SRFB funds	\$550,000	funding strategy	?	transactions?	
4		2	Twanoh Falls Community Club Estuary Restoration	HCSEG	\$75,000	\$65,000	\$10,000	LIP, ESRP	Design, landowner outreach	\$10,000	landowner discussions	\$0						funding strategy, designs, permitting	\$15,000		construction	
									\$30,000		\$100,000		\$6,444,337		\$505,000		\$888,815		\$715,000			
West Kitsap																						
2 or 3		1,3,4,5,6	Big Beef to Dewatto Priority Lands Conservation	GPC, WDFW, DNR, HC Alliance	\$1,000,000	\$1,000,000	\$0	Unknown					Design and partner building; funding	?			Design and partner building; funding	?	Appraisal, Negotiations	?	Transactions	
2		1	IMW Lower Big Beef Restoration, Design and Build	WDFW, HCSEG	\$600,000	\$521,000	\$79,000	SRFB, PSAR			Project Development		Preliminary Design and funding strategy	?	Final Design, permitting	\$79,000			construction	\$521,000	monitoring	
3		1,3	IMW Little Anderson Channel Restoration	HCSEG, HCCC	\$600,000	\$250,000	\$350,000	LIP, Kitsap County	Design and construct Phase 1	150000	Reach Assessment	\$30,000	Design and construct Phase 2	\$170,000	Reach Assessment	?			Design and construct Phase 3	\$250,000	monitoring	
2		2,7	Dewatto Estuary	HCSEG	\$400,000	\$400,000	\$0	PSP, SRFB, ESRP, coastal wetlands											design	\$20,000	permitting, construction	
2		1,3	Big Beef Creek Conservation 2009	GPC	\$175,000	\$0	\$175,000	GPC in-kind, donation									appraisal, transaction	\$175,000				
4		1,2,3	Martha John Creek Estuary Conservaiton Plan	GPC, PG S'Klallam Tribe	\$47,500	\$0	\$47,500	NFWF					conservation plan development	\$47,500	continue plan development							
4		2,3,5	Kitsap Memorial Bulkhead Restoration	State Parks	\$450,000	\$0	\$450,000	FEMA, State Parks, ESRP			design, discussions	?					permitting, construction	\$450,000				
									\$150,000		\$30,000		\$217,500		\$79,000		\$625,000		\$791,000			
Dungeness and Jimmycomelately (only summer chum stocks considered in HCCC process)																						
3	2	1	Dungeness River Floodplain Restoration	JSKT, Clallam, Army Corps	\$15,000,000	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	RR Bridge Trestle replacement design-only	\$100,000		
3	7	1,3,5,6	Dungeness Riparian Habitat Protection	JSKT, WDFW, NOLIT	\$9,000,000	\$9,000,000	\$0															
3	9	1,3	Dungeness River Large Wood Restoration	JSKT, Clallam	\$5,000,000	\$5,000,000	\$150,000	EPA design \$\$											Dungeness R. RM 12-18 and Gray Wolf RM 0-2 design and Forest Service approval and permitting process.	\$120,000	Dungeness R. RM 12-18, and Gray Wolf RM 0 to 2 ELJ construction.	
3	11	1,3	Dungeness River Riparian Restoration	JSKT, Clallam	\$500,000	\$365,000	\$135,000	USFWS Ecotrust									Buddleia control and replanting with cottonwood and western red cedar. Outreach to landowners for riparian restoration. Replanting understocked riparian areas.	\$30,000, with \$20k in hand			Buddleia control and replanting with cottonwood and western red cedar. Outreach to landowners for riparian restoration. Replanting understocked riparian areas.	
3	13	1,2	Dungeness River - Meadowbrook Creek Restoration	JSKT, Dungeness Farms, CCD, WDFW	\$300,000	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	Engineer design, bid contract, complete permitting	see 2013	Construct project	
3	14	6	Dungeness River Instream Flow Improvements	CCD and WUA	\$4,680,000	\$3,730,000	\$950,000	NOAA, BOR, Agnew Irr. Dist., DOE, Cons. Comm.									DIG engineer design, construct; AID construct	\$750,000	DIG engineer design, construct; AID construct	\$200,000	DIG engineer design, construct; AID construct	
3	17	1,3,4	Dungeness River Habitat Resurvey	JSKT, USFS	\$75,000	\$75,000	\$0	EPA									habitat survey	\$50,000			analysis	
2	3	2	Dungeness Drift Cell Conservation	JSKT	\$7,000,000	\$7,000,000	\$70,000															

Projects represent all 4 priority Domains to allow more comprehensive tracking of salmon recovery while supporting community values.									2007		2008		2009		2010		2011		2012		2013	
Domain Priority	Bio Rank / EDT	Primary Limiting Factors	Action name and description	Likely sponsor	Total cost	Unfunded Portion	Existing Funding	Source of other funds	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost	Scope	Cost		
2	5	2,7	WA Harbor Restoration	JSKT	\$1,762,276	\$422,669	\$133,967 (\$116,697 SRFB, \$131,288 EPA, \$1,091,622 ESRP tentative)	SRFB, EPA, ESRP							Geomorphic assessment, conceptual designs, cultural resources assessment all completed, begin final design, contract documents, and permitting	\$116,697	Final design and contract documents completed 3/11; permitting in process		Construct restoration project: remove existing culverts and 600' of road, build 600-foot bridge.	\$1,645,579		
2	6	2	North Sequim Bay Drift Cell Conservation	JSKT	\$5,000,000	\$5,000,000	\$0														Phase 1, 2, and 3 combined as a design-only project	
2	22	1,2	Elwha River Estuary Restoration	LEKT, CC, WDFW, TNC	\$1,320,000	\$1,320,000	\$0												Design & Permitting	\$210,000	Implementation	
2	23	2	WA Harbor Protection	NOLT, JSKT	\$1,020,000	\$1,020,000	\$0												Planning and Outreach to landowners	\$10,000	Planning and Outreach to landowners	
2	49	1,2,3	Grays Marsh and Gierin Creek	WDFW	\$100,000	\$100,000	\$0												Conceptual Feasibility	\$100,000		
										\$0	\$0	\$0	\$0	\$0	\$0	\$210,000						
Regional																						
2 or 3 or 4		2,3,5	Marine Riparian Initiative	HCCC, JLT, CLC, GPC, RFEs, CDs, WSU, Noxious Weed Boards	\$900,000	\$800,000	\$100,000	Landowners, PSP, CSF, LIP, ALEA	outreach/education, training, planting, monitoring	\$40,000	outreach/education, training, planting, monitoring	\$20,000	outreach/education, training, planting, monitoring	\$40,000	outreach/education, training, planting, monitoring	\$200,000	outreach/education, training, planting, monitoring	\$200,000	outreach/education, training, planting, monitoring	\$200,000	outreach/education, training, planting, monitoring	
2 or 3 or 4		2	Derelict Gear Removal	HCSEG, NWSI	?	?	?	NOAA, private foundation, ESRP	Inventory	?	Remove and Inventory	?	Remove and Inventory	?	Remove and Inventory	?	Remove and Inventory	?	Remove and Inventory	?	remove and inventory	
1 or 2		1,3,5	Regional Riparian Successional Strategy	Multiple	?	?	?	federal approp., Noxious weed boards, partner in-kind	Survey and inventory noxious weeds	\$75,000	Survey, inventory, remove noxious weeds; begin riparian assessment	\$300,000	Survey, inventory, remove noxious weeds; implement riparian plantings	\$300,000	Survey, inventory, remove noxious weeds; implement riparian plantings	\$300,000	Survey, inventory, remove noxious weeds; implement riparian plantings	\$300,000	Survey, inventory, remove noxious weeds; implement riparian plantings	\$300,000	Survey, inventory, remove noxious weeds; implement riparian plantings	
										\$40,000	\$95,000	\$340,000	\$500,000	\$500,000	\$500,000	\$500,000						
Hatchery Capital Projects																						
TOTAL CAPITAL NEED:					\$224,782,753	\$137,526,654	\$67,125,386			\$3,963,146	\$16,257,676	\$25,661,635	\$23,227,120	\$19,718,536	\$17,690,699							

13		2014											
Cost	Scope	Cost	Restor-ation Type	Location w/in watershed	Performance	Brief Description	Action #	HWS link	HWS link Cont.	3 YWP Project Name			
			E	Estuary	37 acres	WA Harbor is crossed by a 1,300-foot long road, equipped with just two 6-foot culverts, which disrupts habitat connectivity, tidal hydrology and habitat forming processes in the estuary's northern 37 acres. The project will provide unrestricted fish access and restore tidal hydrology and habitat forming processes in these 37 acres by removing the 6-foot culverts and 600 feet of road and replacing them with a 600-foot bridge.				WA Harbor Restoration			
\$390,000			L	Marine Shoreline	9.5 miles	Permanent protection will be provided for Gibson, South, Travis and Paradise Cove Spits, all clustered near the entrances to WA Harbor and Sequim Bay, along with the 5.2 miles of coastal feeder bluffs that support the spits. Protection will be accomplished using conservation easements, property purchases, and state land management planning. Protected habitat includes 5.2 miles of feeder bluff shoreline, 23,560 feet of spit shoreline, 269 acres of marine shallow water and estuarine habitat, and the productive 10-mile shoreline of the 3,200-acre Sequim Bay.		#09047.1		North Sequim Bay Drift Cell Conservation			
\$1,040,000	Implementation	\$70,000	E	Estuary		Project will build on short term fish passage restoration of west levee currently underway.		#09093		Elwha River Estuary Restoration			
\$10,000	Implementation Conservation Easement Acquisition, and Fee Simple	\$1,000,000	L	Estuary	118 acres	Maintain expansive and important Nearshore habitat for numerous salmonid populations and forage fish in the 118-acre estuarine system at the mouth of Bell Creek and adjacent to the entrance to Sequim Bay.		#09018		WA Harbor Protection			
\$10,000			R, E	Estuary	50 acres	Project Design and Feasibility Study to: Restore and enhance salt marsh connectivity and enhancement of Gierien Creek		#09046		Grays Marsh and Gierien Creek			
\$1,040,000								#10077					
\$200,000	outreach/education, training, planting, monitoring	\$200,000	L, R, M	Marine	6 miles	Restore marine riparian corridors in the summer chum ESU. In addition to plants, technical assistance, and workforce on public and private lands, this project could provide matching funds to enable a process for landowners to donate conservation easements		OE 02-02	11-05-001	Marine Riparian Initiative			
?			E,M	Marine	?	Inventory marine subtidal areas of Hood Canal for derelict nets and pots and continue removal process		Not in HWS		Derelict Gear Removal			
\$300,000	Survey, inventory, remove noxious weeds; implement riparian plantings	\$300,000	R	All except marine	?	Survey, inventory, and control exotic, invasive vegetation species along high priority freshwater reaches; prepare sites, plant, and maintain sites following recommendations from riparian assessment		18-03		Riparian Enhancement and Noxious Weed Control			
\$500,000													
\$16,762,301													