# Introduction

This document provides a brief narrative to accompany the 2011 3-Year Work Plan update for the Lake Washington/Cedar/Sammamish Watershed (WRIA 8). Both the capital and non-capital actions listed in the 3-Year Plan reflect the most important known priorities for Chinook conservation and recovery in the watershed, and are based upon analyses and hypotheses described in detail in the Lake Washington/Cedar/Sammamish Watershed (WRIA 8) Chinook Salmon Conservation Plan (2005).

Estimated costs for each action in the 3-Year Work Plan are based on the 10-Year Start List cost estimates from the WRIA 8 Plan or other recent updates. This 3-Year Work Plan update was developed in consultation with the WRIA 8 Salmon Recovery Council and Technical Committee.

The conservation and practical rationale for the 3-Year Work Plan remains unchanged from the 2009 narrative. Refer to that narrative if more detailed information is needed (<u>http://www.govlink.org/watersheds/8/reports/default.aspx</u>).

# Consistency

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 accompanying spreadsheet lists the actions needed to implement the WRIA 8 work plan in the next three years. Specific additions or deletions for 2011 are outlined below:

# Additions for 2011

(Migratory/Nearshore/Multiple Populations)

- ⑦ Daylight Willow Creek along much of its length downstream of Edmonds Marsh to create an open channel. (M233).<sup>1</sup>
- (Cedar River Population)
  - ② Lake Washington Shoreline Restoration: Remove bulkheads and place gravels. C288A (Chism Beach Park); C288B (Beaux Arts Park); C285 (Newcastle Beach Park).

(Sammamish River Population)

⑦ Protect headwaters of Cottage Creek and Bear Creek (N277)

<sup>&</sup>lt;sup>1</sup> The project code (M233, C288, etc) is the nomenclature used in the WRIA 8 Chinook Conservation Plan to identify projects. Refer to Volume 2 of the Conservation Plan if more information about a particular project is required.

- Sammamish River Restoration: re-grade banks, create flood benches at or below high-water mark, and plant banks and benches with native vegetation (N356).
- ② Restoration at the confluence of Issaquah and East Fork Issaquah Creeks (I211A, I211B). Projects to benefit multiple species (Chinook and kokanee salmon).
- ② Lake Sammamish tributary delta improvements (Project Number TBD). Project to benefit multiple species (Chinook and kokanee salmon).
- Ebright Creek Enhancement and Acquisition (new for 2011: I310A and I310B). Projects to benefit multiple species (Chinook and kokanee salmon).

# Removals for 2011

- Squak Valley Park Restoration (I226). Project creates off-channel habitat for salmon rearing and refuge along Issaquah Creek.
- ② Sammamish State Park Restoration (I202–A8). Project restores 5.5 acres of riparian habitat along 1,200 feet of Issaquah Creek.

**Programmatic actions** needed for the next three years include all those on the WRIA 8 10-Year Start List of Actions (Volume 1, Chapter 9), with some examples provided in the 3-Year Work Plan description column, and the key ones highlighted below:

- Complete the H-Integration process and work with co-managers to implement priority recommendations.
- ⑦ Continue work with co-sponsors on overcoming barriers to more salmon-friendly lake shorelines.
- © Continue to support efforts to encourage Low-Impact Development
- Build on successful 'Lakeside Living' workshops and Green Shorelines Guidebook outreach efforts and potentially extend this outreach model to streamside property owners.
- NEW EMPHASIS FOR 2011: Work with streamside property owners and jurisdictions to encourage stewardship and other protective measures in streamside areas. This new emphasis is an adaptive management response to land cover change analysis initially presented at the WRIA 8 Summit in December 2010 and completed in 2011 (discussed in #5 below).

The PSP/RITT review of the 2010 three-year work program update for WRIA 8 noted that specific programmatic actions supporting regulations that benefit salmon were not identified, nor were strategic opportunities being carried out to engage in Shoreline Master Program update processes. WRIA 8 lacks staff to track and coordinate these processes with its 27 member jurisdictions, and this element has not been addressed in this 2011 update.

# Research, monitoring and evaluation actions needed include:

- Continue habitat status and trends monitoring for the Cedar River and for wadeable streams. WRIA 8 received a grant from the EPA in 2010 to continue survey work through 2013. An interim report will be presented to the WRIA 8 Salmon Recovery Council in the Fall of 2011.
- Complete an overall WRIA 8 Monitoring and Adaptive Management Framework – this framework will leverage effectiveness and implementation monitoring efforts already taking place and help strategically direct future effectiveness monitoring to focus on projects with greatest uncertainty, as well as incorporate H-Integration efforts. The WRIA 8 Technical Committee began work with PSP and the RITT in 2010 to develop this framework in the context of overall Puget Sound adaptive management, but RITT guidance documents have yet to be distributed.
- ⑦ Work with RITT and Puget Sound Partnership to devise methods for programmatic effectiveness monitoring.

# Pace/Status

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 of December 2010 (5 years into our 10-year Plan), WRIA 8 has completed approximately 14% of the capital projects on the 10-year project list. A further 29% are active. Jurisdictions are advancing the WRIA 8 Conservation Plan with the funding available to implement the Plan, though funding is short of targets identified in the Plan. Programmatic and capital actions are in progress, as detailed in previous narratives, the 2006-2007 WRIA 8 Implementation Progress Report (<u>http://www.govlink.org/watersheds/8/planning/progress\_report.aspx</u>), and the December 2010 WRIA 8 Summit (<u>http://www.govlink.org/watersheds/8/committees/1012/default.aspx</u>).

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

Some progress has been made in H-integration prior to 2011 (see previous narratives), but further progress awaits development of an adaptive management framework (progress slowed in 2010).

# Sequence/Timing

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

Capital projects during the next three years of implementation continue to attempt to increase fry colonization and juvenile rearing success by protecting and restoring areas of floodplain connectivity in and around areas that have high Chinook spawning concentrations. To be successful in implementing these top priorities we will continue to need funding and support for large-scale flood plain reconnection projects along high priority river corridors. High land values and multiple parcel ownership in most reaches mean that projects often take many grant rounds to acquire property on a scale sufficient for restoration to be effective.

Within Lake Washington, restoration actions are focused on the southern end of the lake to benefit the Cedar River fry-migrant life stage that rears in the lake, as well as migrating pre-smolts (parr). We hypothesize that restoration of shallow sandy habitat with overhanging vegetation will reduce predator efficiency, and increase juvenile survival in Lake Washington. Given the highly developed condition of the lake, most actions to date have taken place on public property. The <u>Green Shorelines program</u> promotes similar benefits on private property. This program is ongoing.

The naturally spawning Sammamish River population continues to have low abundance and low productivity, and actions continue to be necessary in the near-term to secure this population from any increase in extinction risk. Actions are also necessary to ensure that the habitat potential exists to support recovery in the future as population productivity increases and the distribution expands into the Tier 2 North Lake Washington tributaries (e.g. Little Bear and North Creeks). This requires programmatic actions to maintain and restore landscape level processes at risk from development as well as capital projects to acquire functioning habitat or restore degraded habitats. These acquisitions include headwater areas in Upper Bear Creek, Cottage/Cold Creek, Little Bear Creek, and North Creek to maintain forest cover, water quality, and hydrologic processes.

The nearshore component of the WRIA 8 plan includes significant uncertainties. Actions are focused on identifying specific locations where feeder bluff connections to the nearshore environment can be restored, and restoring pocket estuaries where possible. The railroad severely constrains restoration opportunities in WRIA 8, making a feasibility study essential for WRIA 8 to implement feeder bluff projects throughout the 10-year plan horizon.

In order to be successful the WRIA requires stable, predictable state and federal funding support, as well as continued state leadership on conservation messages at the regional level (e.g., STORM).

### Next Big Challenge

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

Land cover change analysis reported at the December 2010 WRIA 8 Summit revealed that forest cover continues to decline and impervious area continues to increase in riparian areas, although overall forest cover outside the Urban Growth Area boundary appears to be stable. An appreciable amount of forest cover loss between 2005 and 2009 was in areas vested under previous Sensitive Areas Ordinances. In light of our analyses, WRIA 8 is increasing emphasis on programmatic protection messages and private landowner stewardship of riparian areas in 2011. The WRIA 8 Implementation Committee is currently investigating strategies to accomplish this.

There have been no significant changes in our project implementation strategy, though the Technical Committee is considering whether changes may be warranted in the near future.

- 6. What is the status or trends of habitat and salmon populations in your watershed?
  - a. *Habitat* status and trends monitoring (wadeable streams) began in July 2009, and is currently funded through 2013. Data are being loaded into the Washington Department of Ecology Status and Trends database and will be analyzed in future months. Information on habitat status in WRIA 8 is not yet available. An overall habitat status and trends framework, including wadeable streams and rivers, land cover, water quality, and hydrologic trends, continues to be in preparation.
  - b. WRIA 8 has been collecting salmon **population** status and trend data for more than 10 years. The figures and tables at the end of this document summarize Chinook adult and juvenile trends for WRIA 8. Over the last ten years, the overall trend in Chinook naturally spawning adult abundance has been increasing in the Cedar population and declining in the Sammamish population.
- 6. Are there new challenges associated with implementing salmon recovery actions that need additional support? If so, what are they?
  - a. The H-Integration process has not resulted in consensus on the role of hatchery-origin spawners on the Sammamish spawning grounds. Adaptive management actions or actions to test alternate hypotheses, if any, will require co-manager approval and likely require input from the RITT and PSP. Staff work load has prevented this issue from advancing in WRIA 8.

- b. Detailed analyses of programmatic effectiveness are likely beyond the capacity of the WRIA to implement and would benefit from initiatives managed by an outside agency or university. However, a programmatic survey and subsequent analyses suggest areas of future emphasis in WRIA 8 (Figure 4).
- c. The stability of local funding for WRIA 8 team and local staff coordination and implementation of salmon recovery actions has become a concern due to shrinking local government budgets. Stable, predictable state and federal funding helps to keep local governments engaged and participating; messages and support for the importance of keeping the local effort going would be appreciated.
- d. The Population Recovery Approach (PRA) document proposed by NOAA-Fisheries in December 2010 presents potential major hurdles to salmon recovery efforts in WRIA 8. The WRIA 8 Salmon Recovery Council provided comments on our view of its technical and policy deficiencies in February 2011, but at this time it is unclear how those comments will be acted upon.
- e. King County has encountered significant challenges to the restoration of natural river processes in the Cedar River, mostly related to public safety issues centered around large wood. These challenges will continue to limit efforts at process-based restoration until a satisfactory balance is achieved. Continued support for the restoration of natural river processes, clearly articulated by the Puget Sound Partnership, NOAA-Fisheries, WDFW and other state and federal agencies, is needed to maintain an appropriate balance in the discussion.

**Figures and Tables** 



Figure 1. WRIA 8 Adult Escapement (Area Under the Curve estimation method). Data for 2009 are provisional: data from 2010 are not yet available from co-managers.



Figure 2. Cedar River Chinook Redds, 1999-2010. Data from 2010 are provisional.



Figure 3. Bear/Cottage Creek Basin Chinook Redds, 2001-2009.

# 2009 Survey Results

AREAS	for FOCUS PRIORITY ACTION	ISSUES PRIORITY ISSUES FOR MONIT	TORING LOWER PRIORITY ISSUES
NCE	LH—LOW IMPLEMENTATION, HIGH IMPORTANCE • Shoreline Contractor Workshops • Lakeshore Workshops • Lakeshore Demonstration Projects 9 Shoreline Outreach • Large Woody Debris	MH—MEDIUM IMPLEMENTATION, HIGH IMPORTANCE • Incentives • Outreach to Property Owners • Low Impact Development • Natural Yard Care • Stormwater Regulations w/ LID • Volunteer Events	HH—HIGH IMPLEMENTATION, HIGH IMPORTANCE • Forest Cover/Riparian Buffer Education • Water Quality Education • Best Management Practices (BMPs) • Critical Areas Ordinances (CAOs) • Shoreline Master Programs (SMPs) • Tree Regulations • Stormwater Regulations
EL OF IMPORTA	LM—LOW IMPLEMENTATION, MEDIUM IMPORTANCE • Boater Education • Designer/Contractor Education • Withdrawals	MM—MEDIUM IMPLEMENTATION, MEDIUM IMPORTANCE • Groundwater Protection • TMDL • CARAs • Water Conservation • Car Washes	HM—HIGH IMPLEMENTATION, MEDIUM IMPORTANCE • Regulatory Flexibility
LEVE	LL-LOW IMPLEMENTATION, LOW IMPORTANCE L o w	ML-MEDIUM IMPLMENTATION, LOW IMPORTANCE • Garden Tours	HL—HIGH IMPLEMENTATION, LOW IMPORTANCE • Call Numbers
_	Low		High
		STATUS OF IMPLEMENTATIO	)N



Brood	Estin	nated Migrat	ion	% Migr	ation	Est.		Pr	roduction/Fem	ale	Su	urvival Rates	6
Year	Fry	Parr	Total	Fry	Parr	Females	PED	Fry	Parr	Total	Fry	Parr	Total
1998	67,293	12,811	80,104	84.0%	16.0%	173	778,500	389	74	463	8.6%	1.6%	10.3%
1999	45,906	18,817	64,723	70.9%	29.1%	180	810,000	255	105	360	5.7%	2.3%	8.0%
2000	10,994	21,157	32,151	34.2%	65.8%	53	238,500	207	399	607	4.6%	8.9%	13.5%
2001	79,813	39,326	119,139	67.0%	33.0%	398	1,791,000	201	99	299	4.5%	2.2%	6.7%
2002	194,135	41,262	235,397	82.5%	17.5%	281	1,264,500	691	147	838	15.4%	3.3%	18.6%
2003	65,875	54,929	120,804	54.5%	45.5%	337	1,516,500	195	163	358	4.3%	3.6%	8.0%
2004	74,292	60,006	134,298	55.3%	44.7%	511	2,299,500	145	117	263	3.2%	2.6%	5.8%
2005	98,085	19,474	117,559	83.4%	16.6%	339	1,525,500	289	57	347	6.4%	1.3%	7.7%
2006	107,796	14,613	122,409	88.1%	11.9%	587	2,641,500	184	25	209	4.1%	0.6%	4.7%
2007	694,264	78,915	773,179	89.8%	10.2%	899	4,045,500	772	88	860	17.2%	2.0%	19.1%
2008	124,655	14,883	139,538	89%	11%	599	2,695,500	208	25	233	4.6%	0.6%	5.2%
2009	115,489	26,916	152,405	82.3%	17.7%	285	1,282,500	440	95	535	9.0%	2.9%	11.9%

Table 1. Production, productivity (production per female), and survival of Chinook fry and parr among brood years. Fry migration was assumed to be January 1 to April 15. Parr migration was assumed to be April 16 through July 13. Productivity was calculated from potential egg deposition (PED) for returning spawners. Data are Cedar River broods 1998 to 2009. (Table from Kiyohara and Zimmerman, 2011 and unpublished data; 2009 brood year data are provisional.)

Brood	E	stimated Migrat	tion	% Mig	gration	Est.	DED		Production/Fe	male		Survival Rates	
Year	Fry	Parr	Total	Fry	Parr	Females	PED	Fry	Parr	Total	Fry	Parr	Total
2000	419	10,087	10,506	4.0%	96.0%	133	598,500	3	76	79	0.1%	1.7%	1.8%
2001	5,427	15,891	21,318	25.5%	74.5%	138	621,000	39	115	154	0.9%	2.6%	3.4%
2002	645	16,636	17,281	3.7%	96.3%	127	571,500	5	131	136	0.1%	2.9%	3.0%
2003	2,089	21,558	23,647	8.8%	91.2%	147	661,500	14	147	161	0.3%	3.3%	3.6%
2004	1,178	8,092	9,270	12.7%	87.3%	121	544,500	10	67	77	0.2%	1.5%	1.7%
2005	5,764	16,598	22,362	25.8%	74.2%	122	549,000	47	136	183	1.0%	3.0%	4.1%
2006	3,452	13,077	16,529	20.9%	79.1%	131	589,500	26	100	126	0.6%	2.2%	2.8%
2007	1,163	11,543	12,706	9.2%	90.8%	276	1,242,000	4	46	50	0.1%	0.9%	1.0%
2008	14,243	50,959	65,202	21.8%	78.2%	132	594,000	108	386	494	2.4%	8.6%	11.0%

Table 2. Production, productivity (production per female), and survival of natural-origin Chinook in Bear Creek. Fry are assumed to have migrated between February 1 and April 8. Parr are assumed to have migrated between April 9 and June 30. Data are 2000 to 2008 brood years. (Table from Kiyohara and Zimmerman, 2009 and unpublished data; 2008 data are provisional. Data from 2009 brood year unavailable at the time of this report.)

				-										0		<u> </u>						<del></del>
	В	L	U	E	F	G	н	1	J	ĸ	L	I™I	N	0	Р	Q	К	5	U	v	vv	<u> </u>
1 I																						
	2011 Three	Year Work Plan - M	VRIA 8 Watershed Implementation Priorities																			
1 I	2011 111000-		TA o Watershed implementation i norties																			
1 I	New Project	s Hiahliahted (Yell	low = 2010: Green = 2011)																			
1 I	Commission	Ducianto ta ha Dam	a avra di (Da di)																			
1	Completed	Projects to be Rem	novea (Rea)																*			
1 I										Secon-											Source of	
1 I						Reference				dary		Voar 1		Voar 2		Voar 3					funds	
1 I						Document			Brimany	Species		Activity	Voor 1	Activity	Voor 2	Activity	Voor 2	Likoly		Local share		
1 I						Document			Primary	species		Activity	Tear	Activity	rear z	Activity	rear 5	LIKEIY		Local share	(PSAR,	
1 I				Priority	Primary Limiting	for limiting		Activity Type and Project	Species	Benefit-	Current	to be	Estimated	to be	Estimated	to be	Estimated	end Likely	Total Cost of	or other	SRFB,	Project
2	Plan Category	Project Name	Project Description	Tier	Factors Addressed	factor	Habitat Type	Performance	Benefiting	ing	Project Status	funded	Budget	funded	Budget	funded	Budget	date sponsor	Project	funding	other)	ID
	Codar																					
3	ocuai																				_	4
4	Capital Projects	3																				4
5	Cedar River - Res	tore Floodplain Connectivit	ty to Increase In-Stream Juvenile Rearing Productivity																			
						Chapter 4												SPU.			SRFB/	C206
1 I						(Volume I)												CLC			PSAR	
1 I								Activity Type Land										Bonton				
1 I								Activity Type - Land										Renion				
1 I						Chinook		Protected, Acquired, or														
1 I						Salmon		Leased: Streambank or		Coho,												
1 I	Acquisition and		Protect and improve riparian habitat in future		Floodplain Connectivity	Conservation	Riparian.	Riparian Protected (19 acres.		Sockeve.	Feasibility	Acquisitio										
6	Restoration	Cedar Reach 3	redevelopment	TiorI	& Eunction	Plan	Instream	4500 linear feet)	Chinool	k Steelhead	Pending	n	\$	restoration	n		\$	2014				
<b>–</b>	Restoration	Ocdar Reach 5	Tedevelopment	THEFT	a r anction	Chapter 4	matcam		Onnoon	Olecificad	r chung		Ψ -	10310121101			Ψ -	2014				4
1 I						(Volume I)																
1 I			Brotest Lightet in Boach 4: Dretest sylisting ringrian behitet instroom					Activity Type Land														
1 I			Protect Habitat in Reach 4. Protect existing ripanan habitat, instream			WRIAO		Activity Type - Land														
1 I			habitat conditions and extensive LWD in reach. Most of reach		Channel Structure and	Chinook		Protected, Acquired, or														
1 I		Acquisition and Habitat	already in public ownership or protected by regulations (e.g. steep		Complexity, Riparian	Salmon		Leased: Streambank or		Coho,											KCD , King	1
1 I		Protection Upstream of Ron	slopes) Targeted parcel is adjacent to landslide reach immediately		Areas & I WD	Conservation	Riparian	Riparian Protected (0.10		Sockeye	Feasibility										County	
1 -	Acquisition	Pegis park: Peach 4	unstream of Pon Begis park (C213)	Tior	Pecruitment	Plan	Instream	Miles)	Chinool	Steelbead	Pending	NA	¢	acquisitio	\$ 200.000	NA	¢	2013 King Cou	at \$ 200.000	\$ 50,000	SWM	C213
⊢́–	Acquisition	Regis park. Reach 4		TIEL	Reclutiment	Fian	mancam	willes)	CHIHOU	Steelileau	renuing		φ -	acquisitio	φ 200,000		φ -	2013 King Cou	πφ 200,000	φ 30,000	300101	0215
1 I																						
1 I																						
1 I			Study Options to Protect Habitat in Reach 4 and Reduce Flooding																			
1 I			and Erosion in Ron Regis Park: It is unclear how much further river is			Chapter 4																
1 I			and Erosion in Non Neglon and, into ancieal new mach in landelide			() (aluma I)																
1 I			going to erode bank and migrate into Ron Regis park in landside			(volume I)																
1 I			area. Eventually there will be a conflict with park uses. Explore			WRIA 8																
1 I		Study Options to Protect	using LWD and levee setback to prevent excessive erosion and flood			Chinook																
1 I		Habitat in Reach 4 and	damage to public lands associated with Ron Regis Park while			Salmon				Coho								Renton /				
1 I		Reduce Electing and	protecting natural habitat forming processes in reach. Study should		Elecatelain Connectivity	Conconvotion	Dinarian	Activity Type Instroom:		Sockovo	Foosibility							King				
		Reduce Flooding and	protecting natural nabilat forming processes in reach. Study should			Conservation	Ripanan,	Activity Type - Instream.		SUCKEYE,	reasibility							King				
8	Restoration	Erosion in Ron Regis park	Include lower Madsen Creek. (C214)	Tier	& Function	Plan	Instream	Large Woody Debris (0 Feet)	Chinool	k Steelhead	Pending	NA	\$-	Feasibility	\$ 40,000	NA	\$-	2013 County	\$ 40,000	ş .	-	C214
1 I						Chapter 4												King				
1			Jones Reach: 20.8 acres, 13 parcels ( of total 29 acres, 16 parcels)		Channel Structure and	(Volume I)		Activity Type - Land	1	1		1						County				
1 I			targeted for protection. Left bank of river already protected.		Complexity, Riparian	WRIA 8		Protected, Acquired, or		Coho,								(City of			KCD, King	4
1 I		Jones Reach Acquisition and	Acquiring parcels on right bank of the river would allow both banks of		Areas & I WD	Chinook		Leased: Upland Protected		Sockeye	Feasibility	Acquisitio		acquisitio		acquisitio		Seattle			County	
	Acquisition	Habitat Protection C228h	the river to be protected (C229)	Tior	Booruitmont	Salmon	Dinarian	(20.8 Acros)	Chinaal	Stoolbood	Ponding	n	¢ 1 000 000	n	¢ 1 400 000	n	¢ 1 400 000	2012 partnorshi	e 2 000 000	¢ 1 000 000	SIA/AA	COORD
- "	Acquisition	Habitat Fiblection - 62200	the fiver to be protected. (0220)	TIEL	Reclutiment	Samon	Паранан	(20.0 Acres)	CHIHOU	Steelileau	renuing		φ 1,000,000	11	φ 1,400,000		φ 1, <del>4</del> 00,000	2013 partitershi	φ 3,000,000	φ 1,000,000	300101	02200
1						(Volume I)			1	1		1										
1			Bucks Curve Buyout: Continue buying out structures to build on			WRIA 8			1	1		1										
1			previous restoration efforts in vicinity of RM 6.2 to RM 6.4 Once			Chinook		Activity Type - Land	1	1		1						Kina				
1 I			sufficient land acquired remove or setback existing levee, and			Salmon		Protected Acquired or		Coho								County /			KCD King	.
1			sumount and acquired, remove of setuation existing levee, and			Gainion Gaaraa ayati	Distantion	Lagrade Union d Drate (	1	Corlo,		A					1	County /			County	
1 I			revegetate floodplain. In best alternative, a portion of SE Jones		Floodplain Connectivity	Conservation	Riparian,	Leased: Upland Protected		Sockeye,	Feasibility	Acquisitio		acquisitio		acquisitio		City of			County	
10	Acquisition	Bucks Curve Buyout	Road could be relocated northward. (C215A)	Tier	& Function	Plan	Instream	(37 Acres)	Chinool	k Steelhead	Pending	n	\$ 800,000	n	\$ 800,000	n	\$ 800,000	2013 Seattle	\$ 2,250,000	\$ 750,000	SWM	C215A
								Activity Type - Instream:														
1						Chapter 4		Channel Reconfiguration	1			1				1						
1					1	() (olumo I)		(Includes Channel	1	1		1					1	1 1			1	
1									1			1				1						
1						WRIA 8		Rougnening), Activity Type -	1	1		1										
1			Bucks Curve Levee Setback / Removal: Once sufficient land			Chinook		Instream: Large Woody	1	1		1						King				
1			acquired, remove or setback existing levee, and revegetate			Salmon		Debris, Activity Type -	1	Coho,		1						County /			KC Surface	٤
1		Bucks Curve Levee	floodplain. In hest alternative, a portion of SE Jones Road could be		Floodplain Connectivity	Conservation	Rinarian	Rinarian Revenetation	1	Sockeye	Feasibility	1						Corps of			Water Mon	at
1	Bostoration	Sotback/Domoval	releasted porthword (C215D)	Tier		Dion	Instroom	Planting	Chinaal	Stoolhood	Donding	NIA	¢	NIA	¢	NIA	¢	2012 Engineers	¢ 40.000	¢ 40.000		C215P
11	Restoration	Selback/Removal	Telocated HorthWald. (C213D)	ner		Fidii	mstream	Fianung		v Steetinead	renaing	NA	φ -	INA	φ -	INA	φ -	2013 Engineers	φ 40,000	φ 40,000		UZ IOD

	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S T	U	V	W	Х
2	Plan Category	Project Name	Project Description	Priority Tier	Primary Limiting Factors Addressed	Reference Document for limiting factor	Habitat Type	Activity Type and Project Performance	Primary Species Benefitin	Secon- dary Species Benefit- g ing	Current Project Status	Year 1 Activity to be funded	Year 1 Estimated Budget	Year 2 Activity to be funded	Year 2 Estimated Budget	Year 3 Activity to be funded	Year 3 Estimated Budget	Likely end Likely date sponsor	Total Cost of Project	Local share or other funding	Source of funds (PSAR, SRFB, other)	Project ID
12	2 Restoration	Cedar River Rainbow Bend Restoration (C236-B)	(Name change from Cedar Grove Road - Rainbow Bend Levee Removal). Conduct further levee modification work to maximize channel-floodplain interactions. (C235)	Tier 1	Floodplain Connectivity & Function	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation	Riparian, Instream	Activity Type - Instream: Channel Reconfiguration (Includes Channel Roughening), Activity Type - Instream: Large Woody Debris, Activity Type -	Chinoo	Coho, Sockeye, ok Steelhead	Design	NA	\$-	NA	\$-	Design	\$ 50,000	King County / Seattle Public 2010 Utilities	\$ 50,000	\$ 50,000	King County SWM, Corps	y C235B
13	3 Acquisition	Lower Lions Stream Reach Acquisition	30 acres (12 parcels) includes a large area of riparian forested floodplain between the Cedar River and SE 188th Street. Enhances side channel that was constructed in the area, allows expansion, and completion of side channel. (C239)	Tier 1	Floodplain Connectivity & Function	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	n Instream, Riparian	Activity Type - Land Protected, Acquired, or Leased: Upland Protected (39 Acres)	Chinoo	Coho, Sockeye, Steelhead	underway	Acquisitio	\$540,00	Acquisiti 00 on	\$540.00	Acquisitio	\$540,000	King 2010 County	\$1,620,000		Conservatic n Futures, King County SWM	y C239
14	4 Acquisition	218th Place Side Channel Protection and Enhancement	218th Place Side Channel: Protect 5 acres, 1 parcel, rural residential, riverfront. Once acquired there are opportunities for habitat enhancement in floodplain and off-channel areas. (Related to C242 to enhance 218th side channel once protected. C242 is not on start list.) (C244)	Tier 1	Floodplain Connectivity & Function	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation	Instream, Riparian	Activity Type - Land Protected, Acquired, or Leased: Upland Protected (5 Acres)	Chinoo	Coho, Sockeye, ok Steelhead		NA	\$ -	NA	\$ -	acquisitio n	\$ 500,000	King 2012 County	\$500,000	\$		) C244
15	5 Acquisition	Mouth of Taylor Creek Reach Acquisition	Mouth of Taylor Creek Reach: Acquire approximately 40 acres of forested riparian floodplain associated with both the Cedar mainstem and the lower reach of Taylor Creek. The target parcels include approximately 1,000 feet of mainstem channel, nearly 1,300 feet of the lowermost reach and mouth of Taylor Creek, and one of the largest remaining floodplain wetlands adjacent to the mainstem. Some of the acquisitions will facilitate future levee removal and/or modification projects (Getchman and Rhode Levees). Completes acquisition by 2009, with restoration by 2012. (C245)	Tier 1	Floodplain Connectivity & Function	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	ı Riparian, Wetland	Activity Type - Land Protected, Acquired, or Leased: Upland Protected (40 Acres)	Chinoc	Coho, Sockeye, Steelhead	underway	Acquisitio	\$ 1,000,000	acquisitio	\$ 1,250,000	acquisitio n	\$ 1.250.000	King 2010 County	\$ 3,500,000	\$ 1,350,000	FEMA, Open Space Bond, King County SWM, Conservatic n Futures	C245
16	5 Acquisition	Belmondo Reach Acquisition	Belmondo Reach: 71 acres, 10 parcels, rural residential, riverfront. No levees in reach, numerous side channels, braided reach. Located between WPA and Cummings levees. Reach includes Trib 0316 confluence area. Area is just downstream of Cedar Grove Road / Rainbow Bend acquisition and meander bend restoration. (C232)	Tier 1	Floodplain Connectivity & Function	(Volume I) WRIA 8 Chinook Salmon Conservation Plan	n Riparian	Activity Type - Land Protected, Acquired, or Leased: Upland Protected (71 Acres)	Chinoc	Coho, Sockeye, ok Steelhead	underway	Acquisitio n	\$ 500,000	acquisitio	\$ 800,000	acquisitio n	\$ 1,800,000	King 2010 County	\$ 3,100,000	\$ 1,100,000	HCP, Conservation n Futures, King County SWM	C232
17	7 Acquisition	Elliot Bridge Habitat Acquisitions	Acquisition of high habitat value properties (7 parcels, 6.7 acres) in the Elliot Bridge reach. These acquisitions will supplement flood buy- outs in the reach and will facilitate early removal and setback of the levee. (C216-B)	Tier 1	Floodplain Connectivity & Function	(Volume I) WRIA 8 Chinook Salmon Chapter 4 (Volume I)	Riparian	Activity Type - Land Protected, Acquired, or Leased: Upland Protected (6.7 Acres)	Chinoo	Coho, Sockeye, ok Steelhead	underway	Acquisitio n	\$500,00	acquisitio 00 n	\$500,00	)		King 2010 County	\$1,676,000	\$676,00	KCD , King County 0 SWM	C216 B
18	3 Acquisition	Royal Arch Reach Acquisitions	the Cedar River mainstem. Potential habitat restoration opportunities include restoration of a historic side channel for high flow refuge for juveniles, and spawning and rearing habitat.	Tier 1	Floodplain Connectivity & Function	WRIA 8 Chinook Salmon (Volume I)	Riparian	Protected, Acquired, or Leased: Upland Protected (24.76 Acres)	Chinoc	Coho, Sockeye, ok Steelhead	underway	Acquisitio n	\$500,00	acquisitio 00 n	\$500,00	Acquisitio n		2011	\$2,000,000	\$1,000,00	O SPU HCP	C247
19	Acquisition	Dorre Don Meanders Reach Acquisition	Dorre Don Meanders Reach: Protect 71 acres, 14 parcels, rural residential, riverfront with flooding issues. Includes an extensive floodplain riparian forest, numerous valley floor spring-fed features including side channel, stream, and oxbow habitats. (C253)	Tier 1	Floodplain Connectivity & Function	WRIA 8 Chinook Salmon Conservation	Riparian	Activity Type - Land Protected, Acquired, or Leased: Upland Protected (71 Acres)	Chinoc	Coho, Sockeye, ok Steelhead	underway	Acquisitio n	\$ 1,000,000	acquisitio ) n	\$ 1,500,000	Acquisitio n	\$ 1,500,000	King County / City of 2011 Seattle	\$ 4,000,000	\$ 1,000,000	Conservation n Futures, King County SWM	y C253

<b>—</b>	D	C	Π	E	C C	C	U U	T	1	V	1	м	N		D	0	D	<u>с </u> - т				W	V V
<u> </u>	В	C C	0		r -	G	1	1		ĸ	L L	14	IN IN	0	r	Q	R.	3 1				vv	$\vdash$
										Secon-												Source of	1
						Reference				dary		Year 1		Year 2		Year 3						funds	1
						Document			Primary	Species		Activity	Year 1	Activity Yea	r 2	Activity	Year 3	Likely		/	Local share	(PSAR.	1
				Priority	Primary Limiting	for limiting		Activity Type and Project	Species	Benefit-	Current	to be	Estimated	to be Est	imated	to be	Estimated	end Likely	Total C	Cost of	or other	SRFB,	Project
2	Plan Category	Project Name	Project Description	Tier	Factors Addressed	factor	Habitat Type	Performance	Benefitin	ging	Project Status	s funded	Budget	funded Bu	lget	funded	Budget	date sponso	or Projec	ct	funding	other)	ID
20	Cedar River - Pro	tect and Restore Hydrologic	Processes to Support Egg Incubation and Pre-Spawning Migrant	Life Stage	es																		
			Lower Rock Creek Flows: Enhance Flows for Pre-Spawning			Chapter 4																	(
		Enhance Flows at Lower	Migrants: Work with the City of Kent in establishing instream flows		Stream flow, Water	(Volume I)		Instream flow: water flow			feasibility						-				-		1
21	Restoration	Rock Creek	that are protective of Chinook through their HCP process. (C351)	Tier 2	quality	WRIA 8	Instream	returned to stream	Chinoo	k	pending	-	\$ -	\$	-		\$-	Kent	\$	-	\$ -		C351
22	Cedar River - Re	store LWD to Increase In-Str	eam Juvenile Rearing Productivity			Chapter 4																	
			Explore feasibility of passing large woody debris over Landsburg		Channel structure and	(Volume I)					feasibility			Feasibilit				City of			ľ		1
23	Restoration	I WD over Landsburg Dam	Dam (C260)	Tier 1	complexity	WRIA 8	Instream	Instream: large woody debris	Chinoo	k	nending		\$ -	v Study \$	25 000	NA	\$ -	ongoing Seattle	\$	-	s -	0	C260
24	Cedar River - Re	store Riparian Function to Ir	crease In-Stream Juvenile Rearing Productivity		Complexity			nieu odnini lango niecu j dobito	0111100		ponding		Ψ	y clady q	20,000		Ŷ	ongoing could	Ť				0200
<u> </u>				1	Diparian aroas and	() (olumo I)								riporion									
		City of Renton Rinarian	Riparian restoration in City of Renton-owned parkland unstream of L		I WD recruitment						feasibility			restoratio							,	Governmen	C209/
25	Restoration	Restoration	405 bridge on left bank. Define area and then restore (C209/C210)	Tior 1	Eloodolain connectivity	Chinook	Rinarian	Rinarian	Chinoo	k	nending	ΝΔ	\$	n \$	81 000	ΝΔ	\$	2010 Renton	s	81 000	\$ 21,000	te	C210
25			too bridge on left bank. Define area and them restore (0203/0210)		The outplain connectivity	Oninook	Tupanan	Tapanan	Oninoo	K	pending		φ	μ φ	7 000 000		φ <b>7</b> .0.000	2010 1001		01,000	÷ 7.007.000	1.3	0210
26	Subtotal - Capita	I - Cedar		1	1	1	1		r			_	\$ 5,840,000	\$	7,636,000		\$ 7,840,000		\$ 2	22,857,000	\$ 7,037,000		
27	Migratory																						
28	Capital project	s																					
20	Lakes - Restore	Shoreline Complexity to Incr	ease Juvenile Rearing and Migratory Survival																				
F		state since complexity to lifer		1		1	1		T														
			Opportunities to restore small creek mouths or restore shorelines			Chapter 4															ľ		1
			(remove bulkheads, reduce armoring, reduce number of docks, or			(Volume I)		Instream: channel													ľ		1
			restore vegetation). Work with private landowners (including			WRIA 8		reconfiguration, Riparian:													ľ		1
			homeowner demonstration project) or on public lands throughout			Chinook		planting, Lakeshore: armor													ľ		1
			section 1 and 2. (C267, C269 - South Lake Washington Habitat			Salmon		modification/ removal,				Design/C		Design/C		Design/C					ľ	Renton, or	C267,
		Small Creek Mouth and	Design and Restoration, C270, and C271- Mapes Creek daylighting			Conservation	Instream,	modify/ remove overwater			feasibility	onstructio		onstructi		onstructio					,	Seattle and	C269 -
30	Restoration	Shoreline Restoration	demonstration site).	Tier 1	Shoreline complexity	Plan	Lakeshore	structure	Chinoo	k	pending	n	\$ 1,500,000	on \$	1,000,000	n	\$ 1,000,000	2015 Seattle	\$	3,500,000	\$ 2,500,000	Corps	C271
																							1
			Lake Washington Shoreline Restoration: Remove bulkheads and																				1
		Lake Washington Shoreline	place gravels. C288A (Chism Beach Park); C285 (Newcastle Beach															City of					C288a;
31	Restoration	Restoration	Park)	Tier 1	Shoreline complexity		Lakeshore											Bellevu	е				c285
						Chapter 4															ľ		1
						(Volume I)															ľ		1
						WRIA 8		Activity Type - Estuarine &													,		1
			Shoreline restoration of WA Department of Natural Resources		<b>B</b> 1 1 1 1 1 1	Chinook		Nearshore: Restore elevation	1												ľ		1
			property. Remove am portion of flume (along lakeside), create		Reduced habitat	Salmon		(1 Each), Activity Type -			e							Dept. of	T		ľ	0050/004	1
1	Destaration	South Lake Washington	shallow water habitat, protect existing cove, and plant overhanging	Tion 4	complexity; Shoreline	Conservation	Dinarian	Riparian Habitat: Planting (8	Chinaa	L.	feasibility	Design		Construc				2015 Deceur			,	SRFB/PSA	0000
32	Restoration	DNR Shoreline Restoration	Inparian vegetation.	Tier	complexity	Plan	Riparian	Acres)	Chinoo	к	pending	Design		tion				2015 Resour	ces			ĸ	0200
33	Ship Canal Lake	Union Locks - Improve Survi	Ival of Migrating Adults and Juveniles	1		Onaptor -	1																
						(Volume I)						Operation									,		1
			Operational Improvements to Improve Juvenile and Adult Chinook			WRIA 8						al									,		1
		Operational Improvements to	Survival (eg Add/Replace strobe lights to locks to deter smolts and		Fish Passage	Chinook						Improvem										-	
34	Restoration	LOCKS	prevent entrainment.) (M204)	Tier 1		Salmon	Estuary	Fish passage	Chinoo	к		ents	\$ 150,000	0 \$			۶ -	Ungoing Corps	\$	150,000	\$ 150,000	Corps	M204
35	Estuary and Near	rsnore - improve Juvenile Re	earing Habitat	1	1	Chapter 4																WDEW/	
		Feeder Bluff Restoration										Feasibility	,								ľ	SREB/PSA	1
		Feasibility Study and pilot	Nearshore feasibility assessment to develop multiple heach			WRIA 8						assessme						King			ľ		1
36	Restoration	restoration projects	nourishment designs for restoration (M2 & M3)	Tier 1	Sediment suppl	Chinook	Nearshore	Beach nourishment	Chinoo	k		nt	\$100.00	0				2010 County		\$300,000	\$150,000	ESRP	M2/M3
			······································			,		Activity Type - Estuary or					Ţ,.								+		
						Chapter 4		Nearshore: Culvert													,		1
						(Volume I)		Replacement -													ľ		1
						WRIA 8		Estuary/Nearshore (1 Each),													ľ		1
						Chinook		Activity Type - Land													ľ	Local	1
			Big Gulch Pocket Estuary: Design and restoration of pocket estuary			Salmon		Protected, Acquired, or				Feasibility	r								ľ	Governmen	1
		Big Gulch Pocket Estuary	and culvert improvements to restore system connectivity and improve		Passage; Reduced	Conservation	Estuary River	Leased: Upland Protected		Coho,		and		Restorati							ľ	ts / Grants/	1
37	Restoration	Restoration	sediment transport into the nearshore. (M222)	Tier 1	Habitat Capacity	Plan	Delta	(1.10 Acres)	Chinoo	k Steelhead		Design	\$ 100,000	on \$	1,900,000		\$-	2012 Mukilte	o \$ 2	20,000,000	\$ 1,900,000	Mitigation	M222
																				/			
																							1
			Daylight Willow Creek along much of its length downstream of																				1
1			Edmonds Marsh to create an open channel. Willow Creek would be																				
1			moved out of the existing pipe from the marsh to the Sound into a																				
1			daylighted channel. The creek would pass under a new bridge culver	t																			
1			(trestle) that is being placed beneath existing and future BNSF rail															People	for				
1			lines near Pt. Edwards and enter the Sound near or through Marina				Riparian;	Stream restoration and										Puget					
38	Restoration	Willow Creek Daylighting	Beach Park, (M233)	Tier 1			nearshore	neashore connectivity	Chinoo	k								Sound					M233

	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S T	U	V	W	Х
										Secon-											Source of	
						Reference				dary		Year 1		Year 2		Year 3					funds	/
						Document			Primary	Species		Activity	Year 1	Activity	'ear 2	Activity	Year 3	Likely		Local share	(PSAR,	
				Priority	Primary Limiting	for limiting		Activity Type and Project	Species	Benefit-	Current	to be	Estimated	to be	stimated	to be	Estimated	end Likely	Total Cost of	or other	SRFB,	Project
2	Plan Category	Project Name	Project Description	Tier	Factors Addressed	factor	Habitat Type	Performance	Benefiting	ging	Project Status	sfunded	Budget	funded	Budget	funded	Budget	date sponsor	Project	funding	other)	ID
39	Subtotal - Capit	al - Migratory											\$ 1,850,000		\$ 2,900,000		\$ 1,000,000		\$ 23,950,000	\$ 4,700,000		4
40	Sammami	sh - North Lake W	lashington Tributaries																			
41	Capital Project	ts																				
42	NI W Tribs - Cha	nnel Complexity and Large V	Voody Debris to support juyenile rearing and fry colonization life	stages										1								
72				Jugoo		Chapter 4	1	Activity Type - Instream:	1	Т	1		[	1 1							design and	1
			Lower Bear Creek Restoration: Provide an enhanced channel		Channel Structure and	(Volume I)		Channel Reconfiguration													permitting	
			alternative to the ditched and leveed lower 3.000 feet of Bear Creek.		Complexity, Riparian	WRIA 8		(Includes Channel													2006-2010.	
		Lower Bear Creek	including a new refuge confluence with the Sammamish River. Add		Areas & LWD	Chinook	Riparian,	Roughening) (0.50 Miles),		Coho,	Feasibility	Construct	i	Construc		Monitorin					construction	n
43	Restoration	Restoration	LWD, restore riparian conditions. (N201)	Tier 1	Recruitment	Salmon	Instream	Activity Type - Instream:	Chinook	Sockeye	Completed	on	\$ 1,000,000	tion	\$ 9,000,000	q	\$ 25,000	2010 Redmond	\$ 10,000,000	\$ 850,000	2011	N201
					Channel Structure and	(Volume I)		Activity Type - Instream								Ŭ						1
			Evaluate locations for LWD addition. Focus on Reach 6, which has		Complexity, Riparian	WRIA 8		Habitat: Channel structure -													Local	
		Evaluate Locations for LWD	the highest restoration potential but does not presently include any		Areas & LWD	Chinook		Large woody debris (1750		Coho.	Feasibility	Feasibility	r	Construc		Construct	ti	King			governmen	t
44	Restoration	Additions	projects. (N242)	Tier 1	Recruitment	Salmon	Instream	Feet)	Chinook	Sockeye	Pending	Study	\$ 50,000	tion	\$ 150,000	on	\$ 150,000	2013 County	\$ 350,000	\$ 100,000	s	N242
								Activity Type - Instream:														
								Channel Reconfiguration														
						Chapter 4		(Includes Channel														
			Evans/Bear Creek Restoration: In-channel restoration is needed in			(Volume I)		Roughening) (4.65 Miles),														
			Bear Creek and Evans Creak through the former dairy farm at the			WRIA 8		Activity Type - Instream:														
			confluence; RM 1.25 to RM 2.5 on Bear Creek and RM 1.2 to RM 4.6	i		Chinook		Large Woody Debris (4500														
			on Evans Creek (Same as Keller Farm). Reconfigure channel where			Salmon		Feet), Activity Type -														
		Evans/Bear Creek	it has been widened due to past farm practices, enhance riparian		Channel Structure and	Conservation	Riparian,	Riparian: Revegetation		Coho,	Feasibility	Acquisitio				Restorati		Redmond	1		Private /	N208 /
45	Restoration	Restoration	area, add LWD, replant. (N208/N211)	Tier 1	Complexity	Plan	Instream	Planting (5 Acres)	Chinook	Sockeye	Pending	n	\$ 2,000,000		\$-	on	\$ 1,000,000	2010 WSDOT	\$ 3,000,000	\$ 3,000,000	WSDOT	N211
		Protect boodwaters of	Acquire forest property development rights/sepson/stion ecomonte																			
		Cottage Creek and Bear	and provide enhanced incentives to retain and plant forest area				Dinarian											Snohomia	h			
16	Acquisition	Creek	environments (N277)	Tior 1			instream		Chinook									County	511			N277
	requisition	6100K				Chapter 4	motream		Onnioon					1 1				County				112/1
						(Volume I)																
						WRIA 8																
						Chinook																
			Cottage Creek: Explore opportunities to improve floodplain			Salmon		Activity Type WRIA 8: Armor													Local	
			connection in reach by removing riprap or artificial constrictions.		Channel Structure and	Conservation		modification/removal (2750		Coho,	Feasibility	Restorati			_	Restorati		King			governmen	i
47	Restoration	Cottage Creek Restoration	(N282)	Tier 1	Complexity	Plan	Instream	Linear Feet)	Chinook	Sockeye	Pending	on	\$-	+ +	\$	on	\$ 180,000	2010 County	\$ 90,000	\$ 90,000	S	N282
1						(Volume I)	1	Channel Reconfiguration	1			1					1				1	
1			Continue North Creek School Project: Work with school to do		Channel Structure and	WRIA 8	1	(Includes Channel										1 1			1	
1		North Creek School (now	additional riparian restoration, large woody debris addition and side		Complexity, Riparian	Chinook	1	Roughening), Activity Type -	1	Coho,		1					1				Local	
		called Clearwater School)	channel enhancements on their property. This project has been one		Areas & LWD	Salmon	Riparian,	Instream: Large Woody		Sockeye,		Restorati						Snohomis	sh		governmen	t
48	Restoration	Restoration	of Snohomish county's top priorities in recent years. (N378)	Tier 2	Recruitment	Conservation	Instream	Debris, Activity Type -	Chinook	Steelhead	Construction	on	\$240,360	Restoratio	\$134,350			2011 County	\$ 374,710	\$134,350	; NFW	N378
49	NLW Tribs - Hydr	ologic processes to support	egg incubation, juvenile rearing, and adult migration	1	1	I ( nanter 4			1													4
1						(Volume I)	1		1	Coho		1					1				1	
1			Bear Creek Forest Cover Protection: Acquire forest property			WRIA 8	1		1	(Secondary		1					1				1	
1			development rights/conservation easements, and provide enhanced			Chinook	1	Activity Types -		Species)			1					1 1			1	
1			incentives to retain and plant forest area environments. Particularly		Riparian Areas & LWD	Salmon	1	Acquisition/Easements/Lease		Sockeve		1					1				Local	
1		Bear Creek Forest Cover	forested area south of Puget Power Trail and at corner of 116th and		Recruitment, Water	Conservation	Upland,	s : Upland protected (24		(Secondary		Acquisitio						Kina			governmen	t
50	Acquisition	Protection	Avondale Road. (N216)	Tier 1	Quality	Plan	Riparian	Acres)	Chinook	Species)		n	\$ 800,000	\$ -	\$-	\$-	\$-	2010 County	\$ 800,000	\$ 200,000	s	N216
	1				Í		1			1. (												
1			Forget Cover Wetland Protection: Protect large undeveloped				1	Activity Type Land	1			1					1				1	
1		Little Rear and Creat Dans	forested wetland on both Little Roar and Creat Dans Creaks			Chinook	1	Protected Acquired cr					1					1 1				
1		Creeks Forested Watland	Approximately 100 acres including 10 parcels. Also listed under		Water Quality Reduced	Salmon	1	Lessed: Unland Protected						Acquisiti		Acquisitio		Snohomir	h		LOCAL	.+
E1	Acquisition	Protection	Great Dane Creek Reach 1 (N/22)	Tier	Habitat Canacity	Conservation	Wetland	(100 Acres)	Chinook			ncquisitio	¢	ncquisit	\$ 500.000	n	\$ 500.000	2009 County	\$ 1,000,000	\$ 500.000	governinen	N//22
71	AcquisitiOII			I IIeí 4	η ιαριίαι σαράσιιγ	JUNISCIVATION	VCuallu	(100 ACICS)	JUNUOK	1	1		- Ψ	ULI	φ 300,000	10	φ 300,000	2003 County	φ 1,000,000	φ 300,000	3	111722

	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х
										Secon-												Source of	
						Reference				dary		Year 1		Year 2		Year 3						funds	
						Document			Primary	Species		Activity	Year 1	Activity	Year 2	Activity	Year 3	Likely			Local share	(PSAR,	
				Priority	Primary Limiting	for limiting		Activity Type and Project	Species	Benefit-	Current	to be	Estimated	to be	Estimated	to be	Estimated	end	Likely	Total Cost of	or other	SRFB,	Project
2	Plan Category	Project Name	Project Description	Tier	Factors Addressed	factor	Habitat Type	Performance	Benefiting	ing	Project Status	funded	Budget	funded	Budget	funded	Budget	date	sponsor	Project	funding	other)	ID
						(Volume I)																	
						WRIA 8																	
			Protect Riparian Wetland in Little Bear Reach 10: Protect		Riparian Areas & LWD	Chinook		Activity Type - Land															
			undeveloped, forested wetlands (second growth forest) in reach		Recruitment, Water	Salmon		Protected, Acquired, or															
		Little Bear Reach Riparian	covering approximately 55 acres and 12 parcels owned by two		Quality, Reduced	Conservation		Leased: Upland Protected			Feasibility	Acquisitio	, ,	Acquisiti		Acquisitio			Snohomish				
52	Acquisition	Wetland Protection	landowners. Enhance with large woody debris. (N424)	Tier	2 Habitat Capacity	Plan	Wetland	(110 Acres)	Chinook		Pending	n	\$ 500.000	on	\$ 750.000	n	\$ 750.000	2010	County	\$ 1.000.000	\$ 250.000		N424
<u> </u>	rioquioition					1 Ion	riodana	(110710100)	Grintoon		r onding		¢ 000,000	0.1	¢ 100,000		¢ 100,000	2010	obuilty	¢ 1,000,000	¢ 200,000		
			Little Bear Forest Cover Protection: Protect forested, headwater			Chapter 4																	
			wetlands from corner of 51st and 180th upstream approximately 2			(Volume I)																	
			miles along Little Bear Creek through conservation easements and			WRIA 8																	
			acquisition. Includes three wetland complexes totaling over 200			Chinook		Activity Type - Land															
		Little Bear Creek Forested	acres: 4 parcels along 180th St. on mainstem; ~7 parcels along		Riparian Areas & LWD	Salmon		Protected, Acquired, or														Local	
		Headwater Wetlands	Trout Stream from 180th to Interurban Blvd.; and 5 parcels north of		Recruitment, Water	Conservation		Leased: Upland Protected				Acquisitio	0	Acquisiti		Acquisitio			Snohomish			Governme	n
53	Acquisition	Protection	164th Street to 156th Street, (N429)	Tier	2 Quality	Plan	Wetland	(200 Acres)	Chinook			n .	\$ -	on .	\$ 500,000	n .	\$ 1.000.000	2011	County	\$ 1,500,000	\$ 500,000	ts	N429
						(Volume I)		Activity Type - Fish Passage:															
		Little Bear Creek Reach 2-				WRIA 8		Fish passage blockages															
		Fish Passage 132 Ave NE	Fish Passage Benefiting Chinook: 132nd Avenue NE (a low flow		Degraded Habitat-Fish	Chinook		removed or altered (4):															
		(N401) and Fish passage	blockage) RM 0.45 and 134th Ave NE (3 cement pipes broken) RM	1	Passage: Riparian	Salmon		Riparian Habitat - plantings of	f														N401
	Restoration	134th Ave NE (N402) with	0.5. City of Woodinville: Restore Rinarian Vegetation up to H 522 and		Areas & LWD	Conservation		native vegetation: Large			Feasibility							12/31/20	Woodinvill				N402
54	Projects	riparian restoration (N403)	add large wood	Tior	2 Recruitment	Plan	Instream	Wood - placement	Chinook		Pending							55	e City of	300000			N403
	1 10/0010	inpundir reotorution (11100)				1 IGH	motream	Wood placement	Onniook		rending	-						00	C Oity Of				11100
			N473 Fish Passage: Reduce jump height at concrete weirs using																				
			artificial riffle or other "safer" engineering.																				
			With N454/N458 - Installation of LWD, design and install LWD to			Chapter 4																	
			provide hydraulic refuge areas during peak flows in stream segments			(Volume I)																	
			76-03 through 76-08 of Kelsev Creek			WRIA 8																	
			With N457/N459 – Restoration of Rinarian Areas: Identify and			Chinook																	
		Kelsey Creek Fish Passage	implement opportunities to plant native coniferous trees in the		Fish Passage 'Rinarian	Salmon		Activity Type - Fish Passage:															
		and Channel Restoration -	riparian zones throughout the subarea. First priority should be the		Areas & LWD	Conservation	Instream	Fish passage blockages		Coho	Design &								City of			Bellevue	
55	Restoration	Reach 3 (N473)	mainstem of Kelsev Creek	Tior	2 Recruitment	Plan	Rinarian	removed or altered (9 Each)	Chinook	Sockeve	nermits	Design						2014	Bellevue			KCD	N473
<u> </u>	restoration		Ripanan Restoration and Stream Enhancements. Work with			Chapter 4	rapanan		Onniook	Cultinoal	permite	Design						2014	Dellevue			ROD	11110
			Landowners in Reach 5 to restore riparian vegetation and to do			(Volume I)				(Secondary													
			stream enhancements. Adopt-a-Stream Project in Snohomish		Degraded Habitat-	WRIA 8				Species),													
			County portion of North Creek.		Channel Structure and	Chinook				Coho													
		North Creek Reach 5-			Complexity, Degraded	Salmon				(Secondary													
		Riparian Restoration and	Project overlaps with Snohomish County North Creek Drainage		Habitat-Riparian Areas	Conservation	Riparian,	Activity Type - Riparian		Species),	Feasibility							12/31/20	Snohomish				N379,
56	Restoration	Stream Enhancements	Needs Report Project proposal.	Tier	2 and LWD Recruitment	Plan	Instream	Habitat: Planting	Chinook	Sockeye	Pending							15	County of				N384
						Chapter 4																	
			North Creek- Protect remaining forest cover and wetlands through			(Volume I)																	
1			CAOs, regulations, BMPs, and incentives and acquisition where	1		WRIA 8				1			1	1		1							
1			regulations and incentives are not sufficient. There are undeveloped	1		Chinook				1			1			1						1	
1			forested areas and wetlands in the following reaches: I ower North	1	Riparian Areas & I WD	Salmon				1			1			1						1	
1		Reach 6 Protection through	reaches 4.3.2 and upper North reaches 10.9.8.7 (listed in FDT	1	Recruitment Stream	Conservation	Upland	Activity Type - Riparian		1		Acquisitio		1		1							
57	Acquisition	Acquisition	priority) (N385)	Tier	2 Flow Water Quality	Plan	Riparian	Habitat: Planting	Chinook	1		n	1			1				\$ 2,000,000			N385
50	NIW Tribs River	- Restore Rinarian Function	to Support Juvenile Rearing and Erv Colonization	1101	-1, mater equality	1. 1011	. upunan	- ashar Flaming	Shintook			1						1		÷ ≥,000,000			10000
<u>⊢</u> °				1		Chapter 4	1		1	1	1												
1			Riparian restoration in reach. Most of the reach is publicly owned	1		(Volume I)				1			1	1		1							
1		NI W Tribs Riparian	but need to remove invasive plants and replant with pative	1	Rinarian Areas & LWD	WRIA 8		Activity Type - Riparian		Coho	Design		1			1						1	
50	Restoration	Restoration	vegetation (N206)	Tier	1 Recruitment	Chinook	Riparian	Habitat: Planting (12 Acres)	Chinook	Sockeve	Completed		\$	.	s -	Restoratio	\$ 25.000	2010	Redmond	\$ 25,000	\$ 12 500		N206
	1 tootoration			1 1.61	in containing in	Grintook	Inspanan	Thashat Fianting (12 ACIES)		COUNCYC	Completed	-	Ψ		Ψ	- Coloratio	ψ 20,000	2010	Reamona	ψ 20,000	Ψ 12,000	-	11200

	В	C	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х
2 Plar	n Category	Project Name	Project Description	Priority Tier	Primary Limiting Factors Addressed	Reference Document for limiting factor	Habitat Type	Activity Type and Project Performance	Primary Species Benefiting	Secon- dary Species Benefit- ing	Current Project Status	Year 1 Activity to be s funded	Year 1 Estimated Budget	Year 2 Activity to be funded	Year 2 Estimated Budget	Year 3 Activity to be funded	Year 3 Estimated Budget	Likely end date	Likely	Total Cost of Project	Local share or other funding	Source of funds (PSAR, SRFB, other)	Project ID
60 Acq	uisition	Reach 9- Bear Creek Waterways Program (N239)	Continue Bear Creek Waterways program to protect best remaining habitat. This reach includes Reach D. Change in feasibility with a willing seller of a large parcel.	Tier 1	Riparian Areas & LWD Recruitment	Chapter 4 (Volume I) WRIA 8 Chinook	Upland, Riparian	Activity Type - Land Protected, Acquired, or Leased: Streambank or Riparian Protected (62 acres	s) Chinook	Coho, Sockeye	negotiations underway	Acquisitio n		Acquisiti on	\$1,350,000		~~~~	2012	King County	\$1,350,000	\$900,000	KCD, CFT, SRFB/ PSAR	N239
61 Acq	uisition	Bear Creek Waterways Program	Continue Bear Creek Waterways program to protect best remaining habitat. Includes "Reach D" and Reach E. In particular, forested riparian parcels contiguous to already protected properties. Also protect undeveloped properties that can be restored. (N232, N303, N293, N286)	Tier 1	Riparian Areas & LWD Recruitment	(Volume I) WRIA 8 Chinook Salmon Conservation Plan Chapter 4	Upland, Riparian, Wetland	Activity Types - Acquisition/Easements/Leas s : Upland protected (84 Acres)	e Chinook	Coho, Sockeye		Acquisitio n	\$-	Acquisitio	\$ 500,000		\$-	0	King County	\$ 500,000	\$ 100,000		N232, 303, N293, N286
62 Res	toration	Horse Farm Restoration (Bear Creek)	Restoration needed on Horse Farm property on NE 140th St. Reduce fine sediments, restore riparian areas. Pursue farm plan to address impacts to Bear Creek. (N228)	Tier 1	Riparian Areas & LWD Recruitment, Excessive Sediment	(Volume I) WRIA 8 Chinook Salmon	Upland, Riparian	Activity Types- Agriculture BMP, Erosion control structures, riparian planting	Chinook	Coho, Sockeye	Feasibility Pending		\$-	Restoratio	\$ 25,000		\$-	0	Conservati on District, King	\$ 25,000	\$ 12,500		N228
63 Rest	toration	Paradise Valley Conservation Area Restoration (Bear Creek) - NLW Tribs.	Remove invasive plants and plant riparian buffer along Bear Creek through out Paradise Valley Conservation Area. (N276)	Tier 1	Riparian Areas & LWD Recruitment	(Volume I) WRIA 8 Chinook Salmon Conservation	Riparian	Activity Type- Riparian Habitat: plant removal/control and riparian planting	Chinook	Coho, Sockeye	Feasibility Pending		\$ 50,000 \$ 5,640,360		\$ - \$ 12,559,350		\$ <u>-</u> \$ 4,630,000	0	Snohomish	\$ 50,000 \$ 23,714,710	\$		N276
65 <b>San</b>	minamish Rive	- Protect and Restore Floc	Suprain Connectivity to Support Juvenile Rearing and Adult Migration			Chapter 4				1													
66 <b>Res</b>	toration	Swamp Creek Regional Par Wetland and Stream Restoration (N335)	Swamp Creek Regional Park Wetland and Stream Restoration: As identified in the Sammamish River Corridor Action Plan, restore large, publicly owned wetland complex k at the confluence of Swamp Creek and the Sammamish River, creating a diversity of wetland elevations and habitats in the floodplain.	Tier 1	Channel Structure and Complexity, Riparian Areas & LWD Recruitment, High Water Temperatures	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	Instream, Riparian (1 acre), Wetland (28 acres)	t Instream, Riparian, Wetland	Chinook	Coho, Sockeye, Steelhead	Design underway	permits		Construc tion								Kenmore, SRFB/PSA R KCD	N335
67 Rest	toration	Sammamish River Reach 2- Wetland Restoration on Right Bank in Bothell and Riparian Wetlands adjacent to 102nd Avenue bridge (N337/N338)	<ul> <li>Wetland Restoration on Right Bank in Bothell: Restore historic wetlands on right bank downstream of 102nd Avenue bridge to be seasonally inundated wetlands with small channels connecting them to the river.(N337). Enhance and reconnect riparian wetlands and remnant side channels adjacent to 102nd Avenue bridge on left bank (N338)</li> </ul>		Degraded Habitat- Floodplain Connectivity and Function		Riparian, Wetlands		Chinook		Feasibility Pending							12/31/20 15	Bothell City				N337 N338
<u>68 Res</u>	toration	Transition Zone Restoration	Restore Transition Zone: Restoration of the left meander (Marymoor meander) below the weir as either the main channel or a seasonal channel with wetlands is recommended. Reroute tributary 0141 into wetland. Enhance or create pools at small tributary outlets, at meander bends downstream of the transition zone, and just downstream of the weir. Restoration elements could include excavation of new channel, creation of pools, and an overflow bench with wetland vegetation; removal of non-native vegetation; placement of gravel substrate in new channel; connection to capture hyporehic flows; and revegetation of riparian and wetland areas with native plants. (N358)	Tier 1	Channel Structure and Complexity, Riparian Areas & LWD Recruitment, High Water Temperatures, Reduced Access to Spawning Habitat - Fish Passage/Anthropogenic /Natural Barriers	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	Riparian, Instream	Activity Type - Riparian Habitat: Planting (1 Acres), Activity Type - Wetlands: Upland wetland - wetland restoration (28 Acres)	Chinook	Coho, Sockeye, Steelhead	Feasibility Pending	Design	\$ 270,000	Construc tion	<u>\$ 1,800,000</u>		\$	2011	King County	\$ 2,070,000	\$ 1,270,000	King County Surface Water Mgmi and River Improveme nt Fund, Army Corps	N358
70 Res	toration	Sammamish River Restoration	Re-grade banks, create flood benches at or below high-water mark, and plant banks and benches with native vegetation. Particular focus should be given to the upper river (RM 11 to RM 13.6) and downstream of the major tributaries. An emerging bench/ wetland would provide juvenile salmonid shallow rearing habitat. (N356)	Tier 1	Floodplain connectivity and function		Floodplain, riparian	Regrade banks and restore riparian vegetation	Chinook	(									City of Sammamis h				N356
71 Res	toration	Sammamish River Tributary Mouth Restoration Feasibilit and Restoration	Sammamish River Tributary Mouth Restoration Feasibility and Restoration: Feasibility and design study for each of the tributary mouths in the Sammamish River. Implement restoration projects. Includes Bear, Little Bear, North, and Swamp Creeks, as well as y Willows (trib 0102), Peters (trib 0104), and tribs 0057A, 0068, 0069, 0095, 0095A, and 0095B. (N201, N339, N346, N357)	Tier 1	Floodplain connectivity and function	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	Instream, Riparian, Wetland	Habitat: Channel reconfiguration and connectivity (0.50 Miles), Activity Type - Instream Habitat: Channel structure - Large woody debris (3000 Feet)	Chinook	Coho, Sockeye, Steelhead	Feasibility Pending		\$-	Feasibilit y and Design	\$ 150,000		\$-	2015	King County	\$ 150,000	\$ 50,000	Local Governmen t	N201, N339, N346, N357
72 Sub	ototal - Capital			-			1					-	\$ 270,000		\$ 1,950,000		\$ -			\$ 2,220,000	\$ 1,320,000		
73 <b>Sa</b>	ammamis	sh - Issaquah																					
74 <b>Iss</b> a	aquah Tribs	- Protect and Restore	Channel Complexity to Support Juvenile Rearing and Pre-	Spawnin	ng Migrants																		
75 Res	toration	Sammamish State Park Restoration	Sammamish State Park Restoration: Revisions of the State's Plan for the park emphasis restoration of the wetlands, streams and lakeshore areas. EDT modeling results suggest park restoration in Reach 1 has highest restoration potential to affect VSP attributes, but based on an aggressive approach. Opportunity to work with State and consultants on restoration actions. (I204)	Tier 1	Regulatory Mechanisms	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	Riparian	Activity Type - Riparian Habitat: Planting and native plant establishment	t Chinook		Feasibility Completed	Restorati on	\$ 50,000	Restorati on	\$ 50,000	Restorati on	\$ <u>50,000</u>	2010	Washingto n State Parks	\$ 150,000	\$ 150,000	Washington State Parks / Local Govts	1204
76 Res	toration	Pickering Place Channel an Riparian Restoration	Pickering Place Channel and Riparian Restoration, Stream restoration along 1,800 feet of west bank Issaquah Creek. d Restoration could include removal of hardened banks and floodplain, side channel, and riparian enhancements. (I207)	Tier 1	Floodplain Connectivity & Function, Channel Structure and Complexity	(Volume I) WRIA 8 Chinook Salmon Conservation	Riparian, Instream	Activity Type - Floodplain Restoration: Channel Connectivity/Rehabilitatio n/Creation - Floodplain Restoration (1800 Linear	o Chinook		Feasibility Pending	Restorati on		Restorati on		Restorati on		2010	Issaquah	\$500,000		Local Governmen ts	1207

	В	C	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х
2	Plan Category	Project Name	Project Description	Priority Tier	Primary Limiting Factors Addressed	Reference Document for limiting factor	Habitat Type	Activity Type and Project Performance	Primary Species Benefitin	Secon- dary Species Benefit- g ing	Current Project Status	Year 1 Activity to be funded	Year 1 Estimated Budget	Year 2 Activity to be funded	Year 2 Estimated Budget	Year 3 Activity to be funded	Year 3 Estimated Budget	Likely end Lil date sp	kely	Total Cost of Project	Local share or other funding	Source of funds (PSAR, SRFB, other)	Project ID
77	Acquisition and Restoration	Bush Lane Acquisition and Restoration	Bush Lane Acquisition and restoration. When combined with Pickering Place could create a large protected/restored section of Issaquah Creek on both banks and some of lower NF Issaquah. Stream, riparian, and floodplain restoration on 1,200 feet of Issaquah Creek east bank. Stream/buffer enhancements can be combined with other public use of upland area of site, such as active recreation. (1206 & I208)	Tier	Floodplain Connectivity & Function, Channel Structure and Complexity	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	Riparian, Instream, Wetland	Activity Type - Floodplain Restoration: Channel Connectivity/Rehabilitatio n/Creation - Floodplain Restoration (1200 Linear Feet), Activity Type - Land Protected, Acquired, or Leased: Upland Protected (12.50 Acres),	, Chinook		Feasibility Pending							2010 Iss	saquah			Local Governmen ts	1206, 1208, 1274, 1270
78	Restoration	Restoration at confluence of Issaquah Creek and E Fork Issaquah Creek	Project concepts developed by Kokanee Work Group for multiple species benefit: • I211A) Cybill-Madeleine Park Habitat Enhancement – Regrade banks, add Iarge wood and other pool- forming features, create side-channel habitat • I211B) E Fork Issaquah Creek Confluence restoration – Remove armoring and re- grade right bank to increase connection to floodplain. Add Iarge wood and plant native riparian species	Tier	instream habitat complexity (LWD, pools spawning gravel)	S,			Chinook	kokanee (only in conjunction with a program to reestablish kokanee; historically Issaquah Crk had the early-run, which is now considered extinct). Coho, steelhead, cutthroat	City of Issaquah is finalizing the master site plan for this park and has applied for KCD funding for future phases.							Cit	ty of saquah				1211A; 1211B
79	Restoration	Juniper Acres Restoration	Juniper Acres Restoration. A small 2-acre parcel recently acquired. When combined with Issaquah Park and other City owned parcels, represents good restoration potential in urban reaches. (I212)	Tier	Floodplain Connectivity & L Function	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	Riparian, Instream, Wetland	Activity Type - Floodplain Restoration: Channel Connectivity/Rehabilitatio n/Creation - Floodplain Restoration (550 Linear Feet)	Chinook		Feasibility Completed	Restorati on						2010 Iss	saquah	\$150,000		Local Governmen ts	1212
80	Protection	Additional South Issaquah Creek Greenway Acquisitions	Additional South Issaquah Creek Greenway Acquisitions: Large parcels adjacent to the South Issaquah Creek Greenway offer additional potential for open space preservation, riparian and wetland enhancements, instream restoration, and side channels. Includes Mohl Property, located immediately downstream of Sycamore Drive on west bank; and other properties. (I225)	Tier	Channel Structure and Complexity, Riparian Areas & LUWD Recruitment	Chapter 4 (Volume I) WRIA 8 Chinook Salmon Conservation Plan	Upland, Riparian, Instream, Wetland	Activity Type - Land Protected, Acquired, or Leased: Upland Protected (19 Acres)	Chinook		·	Acquisitio n	\$-		\$ -	Acquisitio n	\$ 750,000	2010 Iss	saquah	\$ 750,000	\$ 375,000	Local Governmen ts/ KCD	1225

	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	V	W	Х
										Secon-												Source of	
						Reference				dary		Year 1		Year 2		Year 3						funds	
				<b>-</b> · · ·	<b>.</b>	Document			Primary	Species		Activity	Year 1	Activity	Year 2	Activity	Year 3	Likely			Local share	(PSAR,	
	Dian Catagony	Droject Nome	Drainet Departmention	Priority	Primary Limiting	for limiting		Activity Type and Project	Species	Benefit-	Current	to be	Estimated	to be	Estimated	to be	Estimated	ena	LIKEIY	Total Cost of	or other	SRFB, Pro	oject
<u> </u>	Plan Category	Project Name	Project Description	Tier	Factors Addressed	factor	Habitat Type	Performance	Benefiting	ging	Project Status	stunded	Budget	funded	Budget	tunded	Budget	date	sponsor	Project	tunding	other) ID	
								Nearshore: Channel															
								modification / creation															
								(1250 Yardst), Activity															
					El contrato de			Type - Instream Habitat															
					Floodplain	Chapter 4		Channel structure - Large															
					Connectivity &	(Volume I)		woody debris (1250 Feet)															
					Function, Channel	WRIA 8		Activity Types	,														
			Squak Valley Park Restoration. Improve habitat complexity and		Structure and	Chinook		Activity Types -															
			riparian forest, create off-channel areas connected to the stream,		Complexity, Ripariar	Salmon	Riparian,	Acquisition/Easements/Le														Local	
		Squak Valley Park	large woody debris placement. Levee removal (all or parts -		Areas & LWD	Conservation	Instream,	ases : Upland protected			Feasibility	Restorati										government	
81	Restoration	Restoration	unknown). Right bank Issaquah - 8. (1226)	Tier :	Recruitment	Plan	Wetland	(1.90 Acres)	Chinook		Completed	on						2010	) Issaquah	\$700,000		s 122	<u>26 B</u>
			Languah Metanyaya Agguiaitian and Depteration (1240) and																				
			Issaquan waterways Acquisition and Restoration (1249) and			Chapter 4																	
			Carey/Holder/issaquari Creek Connuence (1246, 1250, 1252). Middle			Chapter 4																	
			Issaquali Reach 12 acquisition and restoration and the confidence of											Acquiro								Local	
		lessqueb Weterwaya	approximation accompany to restore or expand riperion buffers			Chinook								Acquire		Acquire						Government	
		Acquisition and Restoration	Removal of invasives. Plan includes increased fenced huffers (100 ft			Salmon		Activity Type - Rinarian:						tion		Conserva						KCD/Conse	
		and Carey/ Holder/ Issacuab	for named tributaries and 50 ft for unnamed tributaries) and		Riparian Areas &	Conservation		Revegetation Planting			Feasibility	Acquisitio		easemen		tion			King			rvation	
82	Acquisition	Creek Confluence	restricted access to the riparian corridors (1248, 1249, 1250, 1252)	Tier 1	I WD Recruitment	Plan	Riparian	(120 Acres)	Chinook		Pendina	n	\$ -	t	\$ 350,000	Fasemen	t \$ 350.000	2009	County	\$ 700,000	\$ 350,000	Futures 125	50
83	Issaguah -Protec	ct and Restore Riparian Fund	tion to Support Juvenile Rearing and Spawning Migrants			, ian	Tapanan		Chineen		i chung		Ψ		• • • • • • • • • •	Labolitoli		2000	- county	¢ 100,000	¢ 000,000	1 4141 00 120	
						(Volume I)																	
						WRIA 8		Activity Type - Land															
			Wildwood Acquisition: Acquisition of the left bank property opposite			Chinook		Protected, Acquired, or														Local	
			recent acquisition of one of the few remaining large undeveloped		Riparian Areas &	Salmon	Upland,	Leased: Upland Protected	1							Acquisitio	)					Governmen	
84	Acquisition	Wildwood Acquisition	parcels (8 acres - Johnson property) on lower Issaquah Creek. (1222)	Tier 1	LWD Recruitment	Conservation	Riparian	(0.30 Acres)	Chinook				\$-		\$ -	n .	\$ 300,000	2009	Issaquah	\$ 300,000	\$ 150,000	ts 122	22
85	Issaquah - Prote	ect and Restore Water Quality	to Support Egg Incubation, Juvenile Rearing, and Pre-Spawning	Migrants																			
86		no projects																					
87	Issaquah - Hatche	ery Capital Projects																					
			lassauch Integrated Fish Dessage Allow unbindered adult persons		Snawning Habitat -	Chapter 4		Passage: Fishways											Corrected			Local	
		lessqueb Integrated Fish	af Chinack and asha. Onen up 10 miles of babitat (upa "lessage		Spawning Habitat -			(Laddors Chutos or			Foocibility								Corps of			Government	
	Hatchery	Passage	of Chinook and cono. Open up to miles of habitat. (was issaquan Hatchery Dam Passage") (1221)	Tior	Passage/Anthropoge	Chinook	Instream	(Ladders, Chutes of Pools) - Fish Passage (1	Chinook	Coho	Completed		\$ 400					2010	Engineers,	\$800.000	\$2 400 000	Corps of	
00				i nei .	rassage/Anthropoge	CHINOOK	Instream	(1	CHIHOOK	Cono	Completed		\$ 400		+ 400.000		+ 1 150 000	2010	anu	\$000,000	\$2,400,000		
89	Subtotal - Capi	ital - Issaquan											\$ 50,400		\$ 400,000		\$ 1,450,000			\$ 4,050,000	\$ 3,425,000		
90	TOTAL - C	apital Projects											\$ 13,650,760		\$ 25,445,350		\$ 14,920,000			\$ 76,791,710	\$ 23,256,350		
Q1	Non-Capita	al																					
97	Non-capital needs	s for Adaptive Management a	nd Coordination			_																	
<del>ا</del>												facilitation	,	facilitatio		facilitation	2						
					1							. proiect	1	n. proiec	4	. proiect	1						
	Future Habitat		Assistance to site-specific projects or addressing barriers to									or		or		or			Multiple			PSAR	
	Project		implementation of projects or programs. Identifying priorities for									program		program		program			stakeholde			Capacity	
93	Development	5-6% Capacity Funds	programmatic actions.	Α					Chinoo	k		developm	\$53,88	5 develop	\$53,885	developm	\$53,885	5 Ongoing	rs	\$161,655	\$0	Funds	
												facilitation		facilitatio		facilitation	7					1	
	Watershed Plan												-	n.					Multiple				
	Implementation &	Salmon Recoverv	Salmon Recovery Coordination/ Adaptive Management Framework		1							, database		database		, database			stakeholde				
94	Coordination	Coordination	and Plan Implementation tracking	A	1				Chinoo	k		developm	\$100.000	develop	\$100.000	developm	\$100.000	Ongoina	rs	\$300.000	\$50.000	Local govts	
				l	1	1		1	1			+		nt	1	+	1		Monogoro				
												recommo		recomme		recommo			and				
	Watershed Plan				1							ndations		ndations		ndations			anu Multinle				
	Implementation &	Habitat Hatcheny and	Enhanced Integration of Habitat, Hatcheny and Hanyest Management									from		from		from	1		Stakeholde				
95	Coordination	Harvest Integration	Actions	Δ					Chinoo	k		regional	\$50.00	regional	\$50.000	regional	\$50.000	Onaoina	rs	\$150 000	.\$(		
1 2 3					71					· · ·		. eg.onal			<i>400,000</i>		<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>			<i>w</i> ,00,000	ψ		

	В	С	D	E	F	G	H I	J	K	L M	N	0	P	Q	R	S T	U	V	W	Х
				Priority	Primary Limiting	Reference Document for limiting	Activity Type and Project	Primary Species	Secon- dary Species Benefit-	Year Activi Current to be	y Year 1 Estimated	Year 2 Activity to be	/ Year 2 Estimated	Year 3 Activity to be	Year 3 Estimated	Likely end Likely	Total Cost of	Local share or other	Source of funds (PSAR, SRFB,	Project
2	Plan Category	Project Name	Project Description	Tier	Factors Addressed	factor	Habitat Type Performance	Benefiting	g ing	Project Status funde	d Budget	funded	Budget	funded	Budget	date sponsor	Project	funding	other)	ID
96	Watershed Plan Implementation & Coordination	Lead Entity Coordination & Administrative Support of Watershed Committees	Lead entity coordination* & Administrative Support and coordination of the watershed committees / Completion and periodic revisions to the watershed salmon plan	AI				Chinool	k	Staffir (3.5 F	g TE) \$561,	Staffing (3.5 000 FTE)	\$561,00	Staffing 0 (3.5 FTE)	\$561,000	Local gov't & Lead Ongoing entity	\$1,683,000	\$1,683,000	ILA Local govts & LE grant	
97	Sub-total - Non-ca	pital needs for Adaptive Mana	gement and Coordination			•	· · · ·				\$764,	885	\$764,88	5	\$764,885		\$2,294,655	\$1,733,000		
98	Non-capital needs	s for WRIA 8 Plan Programm	atic Recommendations (For a more detailed list of the programma	tic recom	mendations, associate	d limiting facto	r, and cost estimates, see Attachment B: '	WRIA 8 Prog	rammatic A	ctions List)	F		T		T	r r	T	ſ	1	
99			(No examples proposed)		Hydrology Water and							Staffing								+
			(No examples proposed)		Sediment Quality.					Staffir	a.	materia	, Is	Staffing.						
					Floodplain Connectivity,	;				mater	als,	, and m	ix	materials,		Multiple				
		Integration of regulatory			Riparian Vegetation,					and m	ix ar	of other		and mix		stakeholde			Local govts	
100	Habitat Protection	flexibility to benefit salmon		Tier 1	Shoreline Complexity,			Chinool	k	resou	., ces \$56,	000 s	\$56,00	0 resources	\$56,000	Ongoing WRIA 8	\$175,000	\$130,500	sources	
			Examples of Programs:							Staffir	g, als	Statting	, Ie	Statting,		Multiple				
			Incentives to restore ecosystem function (C007)		"					and m	ix	, and m	ix	and mix		rs and			and other	
101	Habitat Protection	Incentive programs	Riparian – Negotiate for enhancement of riparian buffers (C006)	Tier 1				Chinool	k	of oth	er \$266,	000 of other	\$266,00	0 of other	\$266,000	Ongoing WRIA 8	\$798,000	\$396,000	sources	
			Examples of programs:																	
			Green Shorelines C729/C730, I730, C030/C033, I056/N051/N057:									Staffing								
			Outreach to encourage lakeshore restoration. Activities could		"					Staffir	g,	materia	ls	Staffing,						
		Innovative enpressions to	include workshops, media campaign, permitting or financial							mater	als,	, and m	ix	materials,		Multiple			Local court	
		stormwater and shoreline	demonstration projects.							of oth	ar in the second s	resourc	e	of other		rs and			and other	
102	Habitat Protection	management	Technical assistance for stormwater pollution abatement	Tier 1				Chinool	k	resou	ces \$268,	000 s	\$268,00	0 resources	\$268,000	Ongoing WRIA 8	\$804,000	\$402,000	sources	
			Examples of Programs:							Staffir	g,	materia	ls	Staffing,						
			Septic tank maintenance.							mater	als,	, and m	ix	materials,		Multiple			Local conto	
		Increase Best Management	alternatives for charity car washes and							and m of oth	er i i i i i i i i i i i i i i i i i i i	resourc	e	of other		stakenoide rs and			and other	
103	Habitat Protection	Practices (BMPs)	car maintenance .	Tier 1				Chinool	k	resou	ces \$181,	000 s	\$181,00	0 resources	\$181,000	Ongoing WRIA 8	\$543,000	\$363,000	sources	
			No examples proposed							Stallin	y, als	materia	, Is	materials		Multiple				
					"					and m	ix	, and m	ix	and mix		stakeholde			Local govts	
		Support existing regulations								of oth	er a com	of other		of other		rs and			and other	
104	Habitat Protection	that benefit salmon	Examples of Programs:	Tier 1				Chinool	k	resou	ces \$453,	000 resourc	e \$453,00	0 resources	\$453,000	Ongoing WRIA 8	\$1,359,000	\$903,750	sources	
			Stewardship – Encourage community stewardship (e.g. C721 with																	
			C719/C731 but basinwide)																	
			Streamside Landowner Education workshops for education, stewardship and BMP implementation																	
			Promote tree cover value (C720/N719/N735/I715)									04-45								
			Stormwater actions - basinwide							Staffir	a.	materia	, Is	Staffing.						
			Natural Yard Care – basinwide Protection of pearshore							mater	als,	, and m	ix	materials,		Multiple				
	Outro a h a rad									and m	ix	of other	-	and mix		stakeholde			Local govts	
105	education	Outreach and education		Tier 1				Chinool	k	or oth resou	er ces \$1.905.	000 s	e \$1.905.00	or other 0 resources	\$1.905.000	rs and Ongoing WRIA 8	\$5.715.000	\$476.250	and other sources	
106	Sub-total - Non-ca	pital needs for Programmatic	Recommendations			•	· · · ·				\$3,129.	000	\$3,129.00	0	\$3,129.000		\$9,394,000	\$2,671.500		
107	Monitoring																			
						Chapter 6				site	<i>y</i> ,	data	,	data		Multiple				
		Evaluating Cumulative				Volume I				select	on/	acquisit	io	acquisitio		stakeholde				
108	Monitoring	Effectiveness	Evaluating Cumulative Effectiveness of Actions (Habitat)	AI		WRIA 8 Plan		Chinool	k	recon	ais \$200,	000 n and	\$150,00	0 n and	\$150,000	Ongoing rs	\$500,000	\$300,000	Local govts	
						Chapter 6				surve	'S,	surveys	, ,	surveys,		Multiple				
100	Monitoring	Stock Monitoring Support	Stock manifering support (Eich In/Out)			Volume I		Chinool	k	smolt	\$461	smolt	\$461.03	smolt 4 tranning	\$461.034	stakeholde	\$1 383 102	\$1 081 304	Local govts,	
105	Monitoring	Clock Monitoring Support				WICKOTIAN		Oninoon	R	trappi	ι <u>g,</u> φ+01,	Staffing	, <del>4, 4, 5, 5</del>	+ trapping,	\$401,004		ψ1,000,102	\$1,001,000	WDI W	-
										0. 5		site		01 15						
										Staffir	g,	selectio	n	Staπing, site						
										select	on/	reconna	ai	selection/						
1										recon	ais	ssance		reconnais						
										sance		and	le	sance						
						Chapter 6				mater	als,	, field		materials		Multiple				
1			Evaluate projects to determine the benefit to Chinook of specific			Volume I				field v	ork,	work,		field work,		stakeholde			Local govts,	1
110	Monitoring	Project Effectiveness	features of restoration projects	AI	l	WRIA 8 Plan		Chinool	k	report	ng \$600,	000 reportin	g \$600,00	0 reporting	\$600,000	Ongoing rs	\$1,800,000	\$600,000	WDFW	<u> </u>
111	Sub-total - Non-ca	pital needs for Monitoring		-				1			\$1,261,	034	\$1,211,03	4	\$1,211,034		\$3,683,102	\$1,981,305		
<u>  112</u>						1			1							Tota	/			
										7	otal	Tot	al	Total		Programm atic pop	-			
	Total Nam	Conitol Nord								ye	ar 1	year	2	year 3		capita	/			
113	Total Non-			* In the	acont pact WIDTA 8	od #60.000/us	for load optity coordination. The #75 000 for		ato roceius d	from Evoraroon Eundir -	eed \$4,390,	034 nee	ed \$4,340,03	4 need	\$4,340,034	need	\$13,077,102	\$4,652,805		<u> </u>
114	<b>Driority</b>	projects and p	ourams benefitting non-listed en		ecent past, WRIA 8 receive	eu \$00,000/year		ure is an estim	ate received	Trom Evergreen Funding.										
115		n vieus anu Di	Squams beneficting non-instea spe																	4

	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х
										Sacon												Source of	
						Poforonco				dany		Voar 1		Voar 2		Voar 3						funde	
						Document			Primary	Species			Year 1		Year 2		Year 3	l ikelv			Local share	(PSAR	
				Priority	Primary Limiting	for limiting		Activity Type and Project	Species	Benefit-	Current	to be	Estimated	to be	Estimated	to be	Estimated	end	Likely	Total Cost of	or other	SRFB.	Project
	2 Plan Category	Project Name	Project Description	Tier	Factors Addressed	factor	Habitat Type	Performance	Benefiting	ling	Project Status	funded	Budget	funded	Budget	funded	Budget	date	sponsor	Project	funding	other)	ID
F					A) fish passage barrier;					/ ····g											g		
					non-natal stream mouth																		
					and shoreline rearing																		
					areas (juvenile																		
					Chinook). B) fish																		
					passage barrier														A) City of				
			Improve natural delta formation processes along stream tributaries to		(kokanee). C) kokanee														Sammami	s			
			Lake Sammamish to improve habitat for juvenile Chinook as well as		spawning habitat -						Conceptual								h; B) City				
			Kokanee salmon. Projects (A,B,C) were investigated for maximum		substrate, instream		kokanee				designs								of				
			Chinook and Kokanee benefits and feasibility and approved by		habitat complexity and		spawning				completed by								Sammami	6			
		Lake Sammamish tributary	Kokanee Work Group in 2010: • A) Lewis Creek Delta Restoration; •		riparian cover; Chinook		habitat;				AMEC for								h; C) WA				
		delta improvements (Project	B) Zaccuse Creek Trail Culvert Removal; • C) Laughing Jacobs		shoreline and non-natal	Tabor;	Chinook		kokanee,	coho,	Kokanee Work								State				TBD
1	16 Restoration	Number TBD)	Creek: Sammamish State Park Channel Re-route		stream rearing area.	AMEC 2011	rearing habitat		Chinook	cutthroat	Group		-						Parks		-	-	A,B,C
			Ebright Creaky Ephanese mouth and protect lower reaches of Ebright																				
			Creek on East shore of Lake Sammamish. If property on lower																				
			reaches of creek is acquired there could be educational outreach																				
			opportunities on the site (I-310) Description to include I310A Ebright																				
		Ebright Creek Enhancement	Creek Wetland Enhancement and I310B Ebright Creek Fish Passage		Loss of Habitat	Chapter 9		Activity Type WRIA 8											City of			Local	
	Acquisition/	and Acquisition (new for	Restoration (NOTE: Projects considered by WRIA 8 Technical		Reduced Habitat	Volume 1	Rinarian	Restore Creek			Feasibility			Acquisiti					Sammami			Governmen	1310A·
1	17 Restoration	2011: I310A and I310B)	Committee to have benefits to juvenile Chinook at creek mouth	Tier	1 Capacity	WRIA 8 Plan	Instream	Mouths/Pocket Estuaries (1)	Chinook		Pending			on	\$ 300.000			201	0 h	\$ 300.000	\$ 150.000	ts	1310B
<u> </u>															÷ 000,000					+ 000,000	+ 100,000		