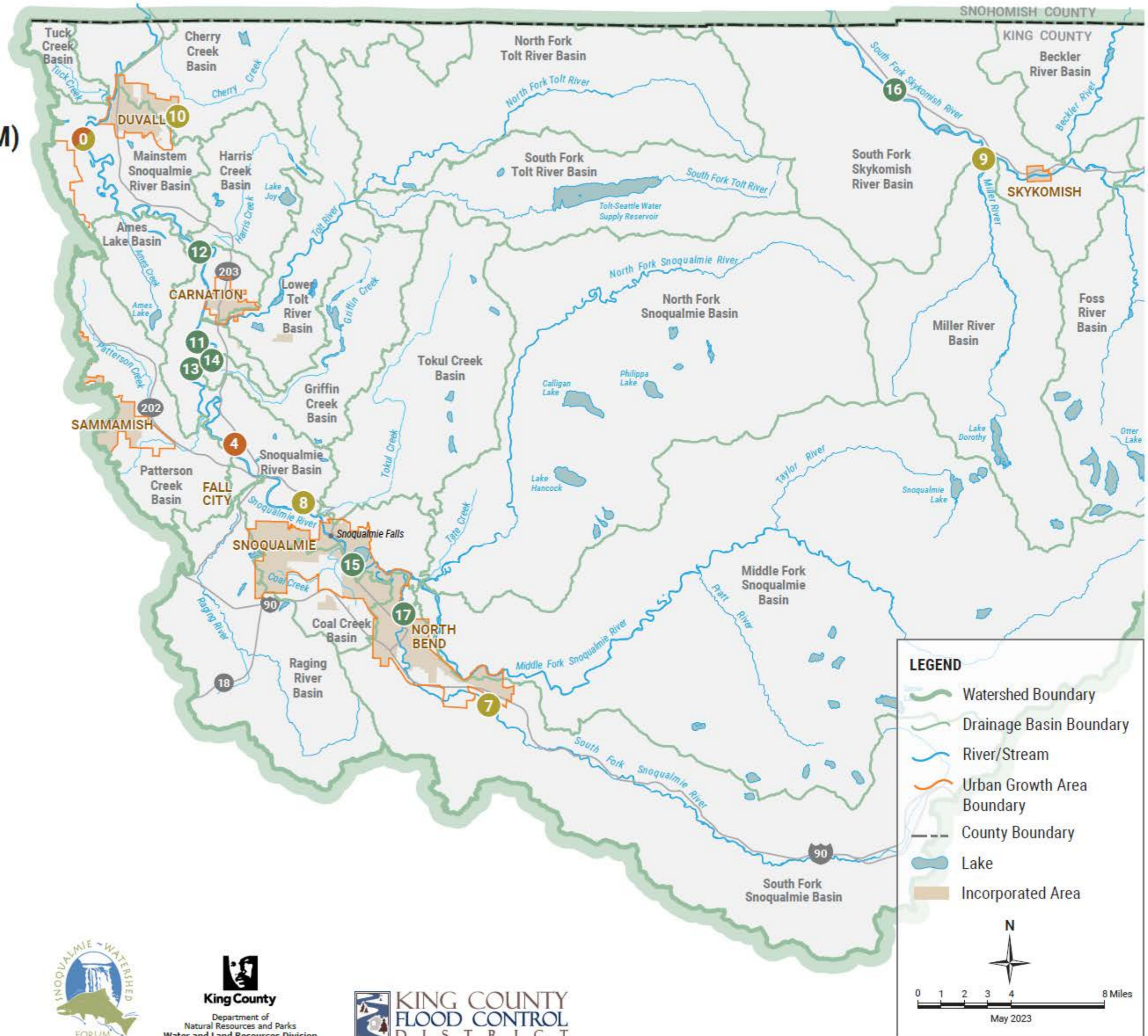


# Snoqualmie / South Fork Skykomish Watersheds

## 2023 Snoqualmie Forum Cooperative Watershed Management (CWM) Final Grant Applications



- BASIN-WIDE**
- EDUCATION & OUTREACH**
- 1 Community Action Training School (CATS) 2024
  - 2 Salmon in Schools 2023-2024
  - 3 Youth Engaged in Sustainable Systems (YESS) in Riverview School District

- MONITORING & ASSESSMENT**
- 0 2024 Snoqualmie River Juvenile Salmon Outmigration Monitoring\*
  - 4 Designing habitat restoration projects to increase juvenile Chinook growth and food resources
  - 5 Cherry Creek and Raging River NetMap Model\*
  - 6 KC Fish Passage Barrier Supplementation (Phase II)\*

- RESTORATION AND PROTECTION**
- 0 2024 Snoqualmie Restoration and Project Assistance Program\*
  - 7 South Fork Snoqualmie River Conservation Acquisition
  - 8 Fish Hatchery Road Alternatives Analysis
  - 9 Lower Miller River Floodplain Restoration Design
  - 10 Duvall Meadows / NE 147th PL (Unnamed Tributary to Cherry Creek) Culvert Replacement

- RESTORATION-RIPARIAN**
- 11 Carnation Marsh Riparian Restoration Phase II
  - 12 Chinook Bend Riparian Restoration Phase II
  - 13 Griffin Creek Farm West End Riparian Restoration
  - 14 McKittrick Riparian Restoration
  - 15 Meadowbrook Slough Phase 6 and Riparian Maintenance
  - 16 South Fork Skykomish Revegetation Project
  - 17 Tollgate Forest Restoration Maintenance and Planting

\*Projects with multiple sites



**LEGEND**

- Watershed Boundary
- Drainage Basin Boundary
- River/Stream
- Urban Growth Area Boundary
- County Boundary
- Lake
- Incorporated Area

0 1 2 3 4 8 Miles

May 2023

# SNOQUALMIE AND SOUTH FORK SKYKOMISH WATERSHEDS

## 2023 COOPERATIVE WATERSHED MANAGEMENT: FINAL GRANT RECOMMENDATIONS

PRC Rank	Project Title	Applicant	Request	Leveraged Funds	PRC Recommendation
	<b>Education &amp; Outreach</b>		<b>\$136,625</b>	<b>\$133,516</b>	<b>\$136,625</b>
1	Salmon in Schools 2023-2024	Sound Salmon Solutions	\$38,848	\$53,136	\$38,848
1	Youth Engaged in Sustainable Systems (YESS) in Riverview School District	Mountains to Sound Greenway Trust	\$71,728	\$51,840	\$71,728
2	Community Action Training School (CATS) 2024	Sound Salmon Solutions	\$26,049	\$28,540	\$26,049
	<b>Monitoring &amp; Assessment</b>		<b>\$352,431</b>	<b>\$70,300</b>	<b>\$352,431</b>
0	2024 Snoqualmie River Juvenile Salmon Outmigration Monitoring*	Tulalip Tribes	\$40,000	\$60,000	\$40,000
1	Designing habitat restoration projects to increase juvenile Chinook growth and food resources	King County	\$118,040	\$10,000	\$118,040
2	KC Fish Passage Barrier Supplementation (Phase II)	Wild Fish Conservancy	\$114,365	\$0	\$114,365
3	Cherry Cr. and Raging R. NetMap Model	Wild Fish Conservancy	\$80,026	\$300	\$80,026
	<b>Restoration and Protection</b>		<b>\$1,375,422</b>	<b>\$6,009,000</b>	<b>\$975,422</b>
0	2024 Snoqualmie Restoration and Project Assistance Program*	Snoqualmie Forum Staff	\$130,000	\$0	\$130,000
1	Lower Miller River Floodplain Restoration Design	King County	\$400,000	\$350,000	\$400,000
2	Fish Hatchery Road Alternatives Analysis	King County	\$300,000	\$50,000	\$300,000
3	Duvall Meadows / NE 147th PL Culvert Replacement	Wild Fish Conservancy	\$437,176	\$9,000	\$145,422
4	South Fork Snoqualmie River Conservation Acquisition**	King County	\$400,000	\$5,600,000	\$192,636
	<b>Restoration-Riparian</b>		<b>\$927,573</b>	<b>\$190,844</b>	<b>\$864,199</b>
1	McKittrick Riparian Restoration	Sound Salmon Solutions	\$76,080	\$25,500	\$76,080
1	Griffin Creek Farm West End Riparian Restoration	Stewardship Partners	\$91,590	\$42,500	\$91,590
2	South Fork Skykomish Revegetation Project	Sound Salmon Solutions	\$321,010	\$10,000	\$65,000
3	Carnation Marsh Riparian Restoration Phase II	Sound Salmon Solutions	\$142,348	\$1,500	\$142,348
4	Chinook Bend Riparian Restoration Phase II	Sound Salmon Solutions	\$149,846	\$6,000	\$149,846
5	Tollgate Forest Restoration Maintenance and Planting	City of North Bend	\$60,355	\$10,000	\$60,355
6	Meadowbrook Slough Phase 6 and Riparian Maintenance	Mountains to Sound Greenway Trust	\$86,344	\$95,344	\$86,344
	<b>Totals</b>		<b>\$3,083,805</b>	<b>\$6,403,660.20</b>	<b>\$2,328,677</b>

\*Projects pre-approved by Snoqualmie Watershed Forum (not evaluated by project review committee)

Shortfall (difference between project request and FCD allocation at \$2,328,677) -\$755,128.00



✓ SNOQUALMIE WATERSHED FORUM Approved (05/17/23)  
 ✓ Flood Control District Board of Supervisors (Summer 2023)



## 2023 Snoqualmie Watershed Forum / CWM Project Application Summaries

Rank	Project Title	Applicant	Request	Leveraged Funds	PRC Rec	Short Description
<b>EDUCATION &amp; OUTREACH</b>						
1	Salmon in Schools 2023-2024	<i>Sound Salmon Solutions</i>	\$38,848	\$53,136	<b>\$38,848</b>	The Salmon in Schools program is a dynamic and hands-on education program that engages elementary through high school students in salmon education and recovery (typically 3-5th grade classes). The program brings 100 - 300 salmon directly to students, providing them with a unique opportunity to get hands-on experience with a species that has significant meaning to our ecosystem, history, and culture. Students raise coho salmon in tanks from the egg life stage to the fry life stage, and then release the fry into a local stream.
1	Youth Engaged in Sustainable Systems (YESS) in Riverview School District	<i>Mountains to Sound Greenway Trust</i>	\$71,728	\$51,840	<b>\$71,728</b>	The Mountains to Sound Greenway Trust's Education Program seeks two years funding to support the expansion of Youth Engaged in Sustainable Systems (YESS) into the Riverview School District. Through a six-week summer course with YESS (formerly EGOYH), high school students earn graduation credit and a stipend while gaining knowledge, skills, and inspiration to pursue careers in conservation and natural resources.
2	Community Action Training School (CATS) 2024	<i>Sound Salmon Solutions</i>	\$26,049	\$28,540	<b>\$26,049</b>	Community Action Training School (CATS) 2024 will empower local community members to actively become leaders in watershed health and salmon recovery by providing them with relevant knowledge, applicable skills, and the organizational support to implement on the ground projects. CATS will recruit at least 20 WRIA 7 residents to engage in curriculum and then design and implement a 50+ hr community-involved service project related to watershed health and salmon recovery in the basin.
<b>MONITORING &amp; ASSESSMENT</b>						
0	2024 Snoqualmie River Juvenile Salmon Outmigration Monitoring*	<i>Tulalip Tribes</i>	\$40,000	\$60,000	<b>\$40,000</b>	The project seeks to continue the annual monitoring of juvenile salmon outmigration in the Snoqualmie River Basin utilizing a rotary screw trap located at river mile 12.2 on the Snoqualmie River in 2024. This project is a part of the overall Snohomish Basin juvenile salmon out migration monitoring effort which began in 2001 and which provides ongoing status, trends and abundance monitoring needed to support run forecasting, and is a quintessential indicator of successful salmon recovery monitoring in the Snohomish Basin.
1	Designing habitat restoration projects to increase juvenile Chinook growth and food resources	<i>King County, Water and Land Resources Division</i>	\$118,040	\$10,000	<b>\$118,040</b>	The purpose of this study is to help guide restoration practitioners towards project designs and restoration strategies that promote abundant, high-quality food resources and greater juvenile Chinook growth. This study also aims to detail juvenile Chinook diets and food resources, which are largely unknown in the Snoqualmie River. The goal of the study is to provide a comprehensive assessment of juvenile Chinook growth, diet, and food resources across Snoqualmie River habitats.
2	KC Fish Passage Barrier Supplementation (Phase II)	<i>Wild Fish Conservancy</i>	\$114,365	\$0	<b>\$114,365</b>	WFC will supplement KC barrier inventory and prioritization efforts by using state sanctioned protocols to inventory and assess (~117) private structures and (~14) natural barrier data gaps where access is granted in the Raging River, Patterson Creek, Griffin Creek, and associated mainstem floodplains. The purpose of this project is to improve salmon and watershed resiliency by supporting the removal or fix of fish passage barriers.

MONITORING & ASSESSMENT						
3	Cherry Cr. and Raging R. NetMap Model	Wild Fish Conservancy	\$80,026	\$300	<b>\$80,026</b>	This project will create GIS models for Cherry Cr. and Raging R. using LiDAR data (USGS, Dec. 2022), coupled with geospatial analysis tools (NetMaps) developed by Terrainworks. The models will delineate river networks; floodplain reconnection opportunities; forested wetlands; shade and thermal loading; instream wood recruitment; road hydrologic connectivity and sediment delivery; fish (including chinook) and beaver intrinsic potential; landslide and debris-flow potential; among other watershed processes and landforms. The models include a suite of analysis tools to identify and prioritize process-based habitat restoration actions, science-based resource management planning, and stakeholder communication and collaboration; and provides information about where watershed integrity and human infrastructure are at risk from climate-mediated changes in hydrology.
RESTORATION & PROTECTION						
0	2024 Snoqualmie Restoration and Project Assistance Program*	Snoqualmie Forum Staff	\$130,000	\$0	<b>\$130,000</b>	The 2024 Snoqualmie Restoration and Project Assistance Program is an ongoing effort managed and delivered by the Snoqualmie Watershed Forum staff to maximize success in implementing the 2005 Snohomish River Basin Salmon Conservation Plan (Salmon Plan) in the King County portion of WRIA 7. The program will (1) assist project implementers in identifying, developing and advancing high priority habitat projects, water quality improvement and planning efforts, (2) conduct Forum-led project coordination activities, and (3) support regional watershed management through policy and technical coordination.
1	Lower Miller River Floodplain Restoration Design	King County, Water and Land Resources Division	\$400,000	\$350,000	<b>\$400,000</b>	The Lower Miller River Floodplain Restoration Design Project will design a project to restore the lowermost mile of the Miller River, and its floodplain at the confluence with the South Fork Skykomish River. The design will seek to maximize habitat value for ESA listed fish: Chinook, coho, chum, pink, steelhead, bull trout, and other species throughout the roughly 165-acre floodplain within the project area by removing artificial constraints on fluvial processes. This project is for design phase of a habitat restoration project, now in alternatives analysis and preliminary design phase, and yet to be constructed, and as such is phased. The overall project scope may be expanded depending on preliminary modeling results, and information gained from the alternatives analysis.
2	Fish Hatchery Road Alternatives Analysis	King County, Water and Land Resources Division	\$300,000	\$50,000	<b>\$300,000</b>	The SE Fish Hatchery Road Alternatives Analysis will build on King County's recently completed feasibility study to explore concepts to improve habitat along the mainstem Snoqualmie River and reconnect off channel habitat between Fall City and the Snoqualmie Falls. In 2020 King County Roads decommissioned the SE Fish Hatchery Road Bridge opening the opportunity to remove up to 2,000 feet of old road infrastructure (bridge and armoring) and improve the connection with habitat features in the floodplain at a range of river flow levels.
3	Duvall Meadows / NE 147th PL Culvert Replacement	Wild Fish Conservancy	\$437,176	\$9,000	<b>\$145,422</b>	Wild Fish Conservancy (WFC) and partners are requesting funding to restore fish passage to ~1/2 mile of spawning and rearing habitat in an unnamed tributary to Cherry Cr. at NE 147th Place in Duvall WA; Funding is being requested for Phase I: permitting and final design. Expected outcomes (after construction phase) of the project are to replace an 81' x 30" barrier culvert with a 60' x 24' bridge, install large wood debris (LWD) to improve salmonid habitat, and plant native vegetation along disturbed banks to increase species diversity, and to provide cover and future large wood debris potential.

RESTORATION & PROTECTION						
4	South Fork Snoqualmie River Conservation Acquisition	<i>King County Department of Natural Resources and Parks</i>	\$400,000	\$5,600,000	<b>\$192,636</b>	King County Parks proposes to acquire a conservation easement on approximately 350 acres of undeveloped forest land along the South Fork Snoqualmie River for habitat preservation. Acquiring a conservation easement on this land will prevent development of approximately 60 homes with septic systems and private wells on the forested land above the river. This project protects almost 6,000 linear feet of the South Fork Snoqualmie River protecting delivery and recharge processes, an identified priority in the Snohomish Basin Protection Plan (an addendum to the 2005 Snohomish River Basin Salmon Conservation Plan).
RESTORATION & PROTECTION - RIPARIAN						
1	McKittrick Riparian Restoration	<i>Sound Salmon Solutions</i>	\$76,080	\$25,500	<b>\$76,080</b>	Sound Salmon Solutions (SSS) aims to restore 4.32 acres of riparian habitat on 1,030' of the right bank of the mainstem Snoqualmie River (RM 28) at the confluence of Griffin Creek. This project is directly upstream of Habernetzle Riparian Restoration project which is currently funded by CWM. In support of this grant, King County Noxious Weeds, will complete all invasive weed removal for the extent of the grant through the Healthy Lands Project. SSS restoration activities include the installation of 4,000 native trees and shrubs. Post planting SSS will maintain the project area 3-years to ensure 75% reduction of invasive vegetation and an 80% survival rate of installed plants.
1	Griffin Creek Farm West End Riparian Restoration	<i>Stewardship Partners</i>	\$91,590	\$42,500	<b>\$91,590</b>	The purpose of this project is to improve water quality and riparian fish and wildlife habitat on a private agricultural property along the mainstem Snoqualmie River. Goal builds on previous efforts at Griffin Creek Farm. Stewardship Partners will restore 2,000 linear feet of riparian habitat along the mainstem Snoqualmie River (14.8 acres). Buffers will average 220+ feet. Once restored, the buffer will provide a more diverse habitat, improved water quality and more shade to cool water temperature for spawning and rearing salmon
2	South Fork Skykomish Revegetation Project	<i>Sound Salmon Solutions</i>	\$321,010	\$10,000	<b>\$65,000</b>	Sound Salmon Solutions, in partnership with King County Noxious Weed Control Program aim to improve ecosystem function of the riparian corridor to improve salmon habitat in RM 6.5 – 20 of the S Fork Skykomish River. Revegetation efforts will be performed from RM 8.3 - 12, in sections that have received a minimum of 4 years of invasive removal treatment, collectively restoring 7,590 feet of the bank, totaling 21.57 acres. This funding will also allow KCNWCP to continue invasive removal efforts from RM 6.5 to 19 including surveying 13.5 RM of critical habitat, mapping, landowner outreach permissions, and continuing herbicide treatments on 39 gross acres of the S Fork Skykomish River.
3	Carnation Marsh Riparian Restoration Phase II	<i>Sound Salmon Solutions</i>	\$142,348	\$1,500	<b>\$142,348</b>	Sound Salmon Solutions proposes phase II of a two-phased restoration project. Combined both phases will address 10.22 acres of riparian habitat on 1,600 feet of the upper mainstem Snoqualmie River and 1,040 feet of an unnamed tributary, downstream of the Tolt River confluence. The property is owned by the Seattle Audubon Society and is bound by Snoqualmie Springs Farms to the north, the Snoqualmie River to the south and east, and rural residential and agricultural properties to the west. Phase II will address 5.10 acres of riparian habitat on 650 feet of the right bank Snoqualmie River and 445 feet of the unnamed tributary. Phase II is heavily infested with invasive knotweed and blackberry and RCG species along the riverbank

RESTORATION & PROTECTION - RIPARIAN						
4	Chinook Bend Riparian Restoration Phase II	<i>Sound Salmon Solutions</i>	\$149,846	\$6,000	<b>\$149,846</b>	Sound Salmon Solutions proposes the second of a multi-phase project to restore 14.5 acres of the King County owned park, Chinook Bend Natural Area. The park is bordered by the left bank of the Snoqualmie River on the North, East and South sides, and is dominated by Knotweed, Scotch Broom and Reed Canary Grass (RCG). It has sparse and threatened native vegetation. Some sections interspersed throughout the park have very little canopy cover and the overstory consists primarily of Red Alder & Black Cottonwood, severely lacking in species diversity, particularly in native conifer presence. In 2009 King County lead a restoration project at Chinook Bend that included levee removal, floodplain reconnection, and 59 acres of revegetation. After 14 years, the park needs maintenance to address beaver impacts, plant mortality, and invasive plant proliferation.
5	Tollgate Forest Restoration Maintenance and Planting	<i>City of North Bend</i>	\$60,355	\$10,000	<b>\$60,355</b>	The City of North Bend (the City) and the Mountains to Sound Greenway Trust (Greenway Trust) are proposing continued restoration of the riparian corridor throughout Tollgate Forest, improving conditions across over 100 acres of this City of North Bend property and along 3,000 feet of both banks of the South Fork Snoqualmie River. In 2010, the Greenway Trust conducted a noxious weed survey of the 112-acre Tollgate Forest and partnered with the City of North Bend to initiate control of the weeds throughout the project site. This project proposal builds upon the successful collaboration to restore floodplain at Tollgate Forest and the opportunity to continue to protect and enhance riparian floodplain forest habitat so that it doesn't degrade into its previous state.
6	Meadowbrook Slough Phase 6 and Riparian Maintenance	<i>Mountains to Sound Greenway Trust</i>	\$86,344	\$95,344	<b>\$86,344</b>	The Greenway Trust is partnering with the City of Snoqualmie to continue to build upon prior restoration efforts at Meadowbrook Slough. Phase 6 of this multi-year restoration project will decrease habitat fragmentation by restoring an additional 4.5 acres of wetland buffer and connecting previously disconnected project phases. This proposal will also fund maintenance efforts at prior project phases to support native tree canopy establishment and prevent encroachment of weeds.