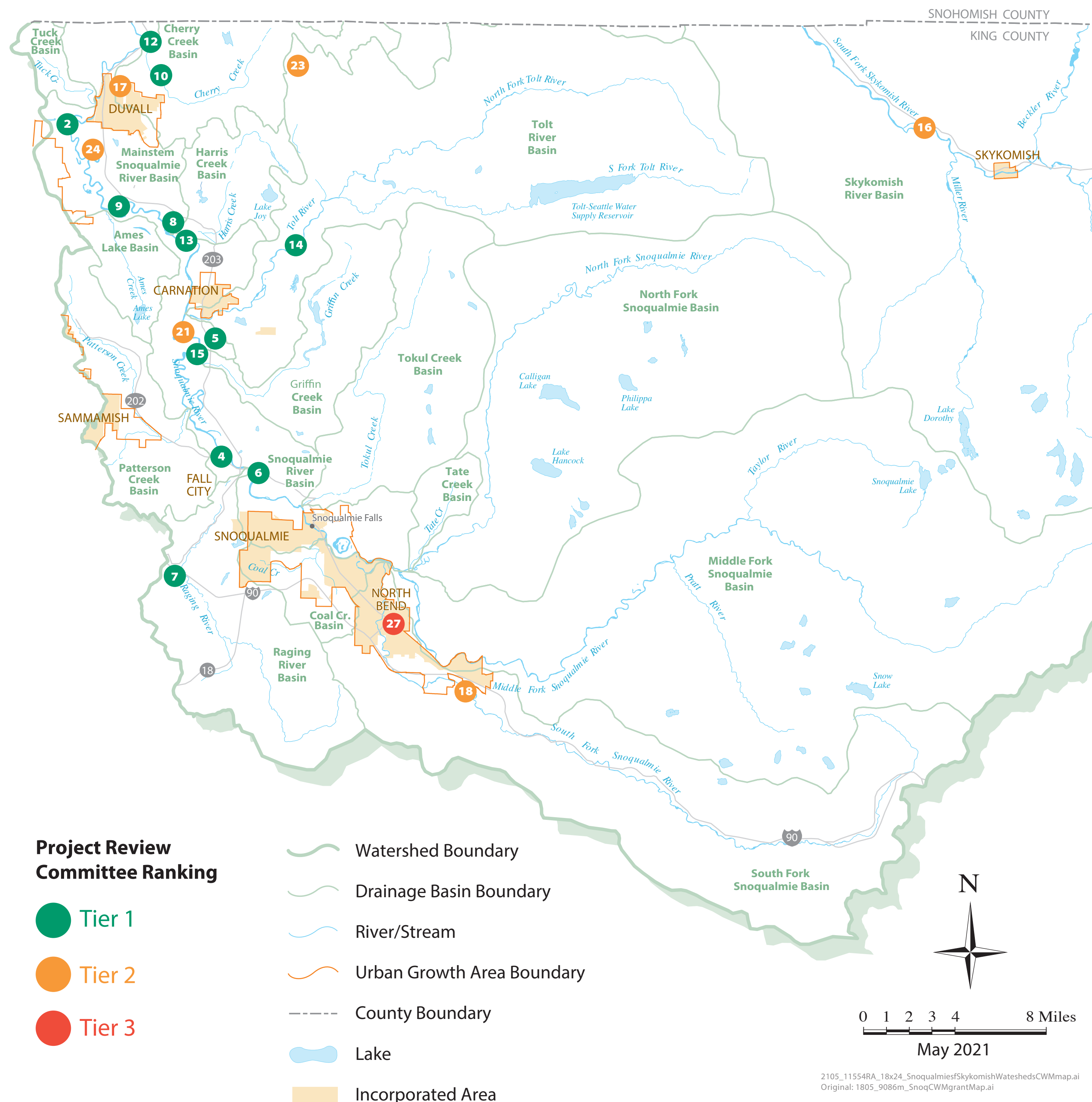


Snoqualmie/South Fork Skykomish Watersheds

2021 Snoqualmie Forum / Cooperative Watershed Management (CWM) Final Grant Applications

- 1 2022 Snoqualmie Project Assistance*
- 2 2022 Snoqualmie River Juvenile Screw Trap
- 3 Validating Snoqualmie River Juvenile Salmon Habitat Use*
- 4 Fall City Floodplain Shallow Groundwater Well Monitoring
- 5 Haberzette Riparian Restoration
- 6 Snoqualmie River Riparian Restoration at Snoqualmie RV Park Phase II
- 7 Soderman Creek Restoration & Fish Blockage Removal
- 8 Harris Creek Riparian Restoration (Ph II)
- 9 Climate-Resilient Snoqualmie Riparian Restoration
- 10 Cherry Creek Phase 2 – Floodplain Reconnection
- 11 Youth Watershed Education, Stewardship, & Community Science*
- 12 Cherry Creek Mainstem Restoration (Ph III)
- 13 Chinook Bend LWD Feasibility Assessment
- 14 Tolt River Natural Area – West Acquisition
- 15 Griffin Creek Mouth Conservation Easement
- 16 South Fork Skykomish Riparian Revegetation
- 17 Lake Rasmussen Aquatic Weed Treatment
- 18 Equitable Green Opportunities for Youth in Highline
- 19 Community Action Training School (CATS) 2022*
- 20 KC Fish Passage Barrier Priority Supplementation (Ph I)*
- 21 Seattle Audubon Property Riparian Restoration (Ph I)
- 22 Beaver dams: baseline data & device functionality*
- 23 Stossel & Cherry Creek Beaver Dam Analog Risk Assessment
- 24 Wallace Acres Livestock Exclusion & Riparian Restoration, 2021
- 25 Snoqualmie Yearling Chinook eDNA*
- 26 Planting Best Places First*
- 27 Snoqualmie Valley Trail Channel Widening & Wetland Creation Project
- 28 Snoqualmie Valley Storytelling through PhotoVoice*
- 29 Snoqualmie Valley 2D Modeling*

* These proposals involve multiple sites or watershed-wide actions so they are not shown on this map.



SNOQUALMIE AND SOUTH FORK SKYKOMISH WATERSHEDS

2021 COOPERATIVE WATERSHED MANAGEMENT: FINAL GRANT RECOMMENDATIONS

Tier	Project	Applicant	Sub-basin Strategy Group	Leveraged Funds	Final Request	PRC Recommendation
1	2022 Snoqualmie Project Assistance	Forum/Cities	Basin Wide	\$26,709	\$135,000	\$135,000
1	2022 Snoqualmie River Juvenile Salmon Outmigration Monitoring	Tulalip Tribes	Basin Wide	\$0	\$40,000	\$40,000
1	Validating Snoqualmie River Juvenile Salmon Habitat Use*	King County	Mainstem Primary Restoration	\$0	\$116,199	\$116,199
1	Fall City Floodplain Shallow Groundwater Well Monitoring	Snoqualmie Indian Tribe	Mainstem Primary Restoration	\$72,000	\$142,048	\$182,048
1	Haberzette Riparian Restoration	Sound Salmon Solutions	Mainstem Primary Restoration	\$500	\$81,377	\$81,377
1	Snoqualmie River Riparian Restoration at Snoqualmie RV Park (Ph II)	Mountains to Sound Greenway Trust	Mainstem Primary Restoration	\$5,000	\$66,793	\$66,793
1	Soderman Creek Restoration & Fish Blockage Removal	WA Department of Natural Resources	Mainstem Primary Restoration	\$34,141	\$83,382	\$83,382
1	Harris Creek Riparian Restoration (Ph II)	Ducks Unlimited	Mainstem Primary Restoration	\$2,000	\$112,987	\$73,844
1	Climate-Resilient Snoqualmie Riparian Restoration	Oxbow Farm & Conservation Center	Mainstem Primary Restoration	\$12,000	\$24,510	\$24,510
1	Cherry Creek Phase 2 – Floodplain Reconnection	Snoqualmie Valley Watershed Improvement District	Mainstem Primary Restoration	\$50,000	\$541,107	\$150,000
1	Youth Watershed Education, Stewardship, & Community Science	Nature Vision	Basin Wide	\$32,701	\$35,264	\$35,264
1	Cherry Creek Mainstem Restoration (Ph III)	Wild Fish Conservancy	Mainstem Primary Restoration	\$200,000	\$350,000	\$350,000
1	Chinook Bend LWD Feasibility Assessment	Wild Fish Conservancy	Mainstem Primary Restoration	\$85,000	\$60,000	\$60,000
1	Tolt River Natural Area – West Acquisition	King County	Mainstem Primary Restoration	\$150,000	\$300,000	\$300,000
1	Griffin Creek Mouth Conservation Easement	King County	Mainstem Primary Restoration	\$0	\$125,000	\$125,000
2	South Fork Skykomish Riparian Revegetation	Forterra	Mainstem Primary Restoration	\$80,000	\$233,242	\$125,000
2	Lake Rasmussen Aquatic Weed Treatment	City of Duvall	Rural Streams Primary Restoration	\$17,800	\$19,100	\$10,300
2	Equitable Green Opportunities for Youth in Highline	Mountains to Sound Greenway Trust	Basin Wide	\$60,400	\$56,109	\$34,205
2	Community Action Training School (CATS) 2022*	Sound Salmon Solutions	Basin Wide	\$6,921	\$22,950	\$22,950
2	KC Fish Passage Barrier Priority Supplementation (Ph I)*	Wild Fish Conservancy	Mainstem Primary Restoration	\$25,480	\$136,163	\$0
2	Seattle Audubon Property Riparian Restoration (Ph I)	Sound Salmon Solutions	Mainstem Primary Restoration	\$500	\$118,859	\$0
2	Beaver dams: baseline data & device functionality*	King County	Mainstem Primary Restoration	\$80,428	\$45,352	\$0
2	Stossel & Cherry Creek Beaver Dam Analog Risk Assessment	Ducks Unlimited	Rural Streams Primary Restoration	\$2,000	\$13,709	\$0
2	Wallace Acres Livestock Exclusion & Riparian Restoration, 2021	Stewardship Partners	Mainstem Primary Restoration	\$5,000	\$130,620	\$0
2	Snoqualmie Yearling Chinook eDNA*	Wild Fish Conservancy	Mainstem Primary Restoration	\$1,000	\$69,316	\$0
2	Planting Best Places First*	King County	Mainstem Primary Restoration	\$10,000	\$51,156	\$0
3	Snoqualmie Valley Trail Channel Widening & Wetland Creation Project	City of North Bend	Headwaters Restoration Above Falls and Dams	\$225,000	\$225,000	\$0
3	Snoqualmie Valley Storytelling through PhotoVoice*	King County	Basin Wide	\$28,000	\$37,847	\$0
3	Snoqualmie Valley 2D Modeling*	King County	Basin Wide	\$0	\$80,001	\$0
Total				\$1,212,580	\$3,453,091	\$2,015,872

PRC = Project Review Committee

Total Funded/Leveraged	\$835,172	-	-
Funding available -	-	\$2,015,872	\$2,015,872
Balance -	-	-\$1,437,219	\$0



2021 Snoqualmie Cooperative Watershed Management (CWM): Grant Proposal Summaries

Project Sponsor	Project Name	Leveraged Funds	Final Request	PRC Recomm.	Short Description
Tulalip Tribes	2022 Snoqualmie River Juvenile Salmon Outmigration Monitoring	\$0	\$40,000	\$40,000	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 2022. 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.
King County	Validating Snoqualmie River Juvenile Salmon Habitat Use and Associations	\$0	\$116,199	\$116,199	The project proposes to conduct juvenile salmonid and habitat sampling in the lower Snoqualmie River to inform and validate watershed-specific juvenile salmonid habitat associations. Better understanding these associations is critical for Snoqualmie-specific restoration strategies, project designs, and adaptive management.
Snoqualmie Indian Tribe	Fall City Floodplain Shallow Groundwater Well Monitoring	\$72,000	\$142,048	\$182,048**	The project proposes to install an array of shallow groundwater wells with data logging equipment to monitor groundwater levels in the vicinity of the Fall City Floodplain Restoration Project for approximately 2 years. The goal of this project is to help improve understanding of how floodplain reconnection projects in the Snoqualmie Valley may influence local groundwater-surface water interactions, and potentially support streamflow.
Sound Salmon Solutions	Haberzette Riparian Restoration	\$500	\$81,377	\$81,377	The project proposes to control invasive vegetation and install native vegetation on 840 feet of the right bank upper mainstem Snoqualmie River and 725 feet of the right bank of an unnamed tributary, totaling 3.68 acres, to improve water quality and salmon habitat.
Mountains to Sound Greenway Trust	Snoqualmie River Riparian Restoration at Snoqualmie RV Park, Phase 2	\$5,000	\$66,793	\$66,793	The project sponsor, in partnership with King County and community volunteers, will build on current restoration efforts at the former Snoqualmie River RV Park and start restoration work at the adjacent King County parcel to the west. Restoration efforts will include over 10 acres of invasive species control and the installation of at least 4,000 native trees and shrubs with the riparian buffer of the Snoqualmie River.

Project Sponsor	Project Name	Leveraged Funds	Final Request	PRC Recomm.	Short Description
WA Department of Natural Resources	Soderman Creek Restoration and Fish Blockage Removal	\$34,141	\$83,382	\$83,382	The project proposes to remove an outdated, fish-blocking concrete water quality monitoring station, 50 feet of exposed asbestos concrete water-piping and a water tank cistern along Soderman Creek. This includes the reconstruction and abandonment of 508 feet of a spur access road to the infrastructure located on Soderman Creek. DNR will provide matching funds for the abandonment of 1,128 feet of forest road and the removal of two fish-blocking culverts on the tributaries to Soderman Creek.
Ducks Unlimited	Harris Creek Riparian Restoration Ph II	\$2,000	\$112,987	\$73,844*	The project proposes to implement a second 5-acre riparian planting phase along lower Harris Creek, building on a previously funded CWM project. Together the plantings will restore 4,500' of riparian habitat along the stream within WDFW's Stillwater Wildlife Unit.
Oxbow Farm & Conservation Center	Climate-Resilient Snoqualmie Riparian Restoration	\$12,000	\$24,510	\$24,510	The project proposes to remove invasive blackberry and establish a high-diversity native forest buffer, designed for climate-resilience and to support climate-focused research, on 750 linear feet (1.2 acres) of riparian land along the mainstem Snoqualmie River. Long-term fixed plots will be installed to evaluate health and growth of 12 native trees, including genotypes of 2 native species from southern seed zones.
Snoqualmie Valley Watershed Improvement District	Cherry Creek Phase 2 – Floodplain Reconnection	\$50,000	\$541,107	\$150,000*	The project proposes to restore and enhance approximately 7-acres of salmonid spawning and rearing habitat. This phase includes removal of a temporary berm placed in October 2020, excavation of a secondary channel, additional berm removal to enhance floodplain connection, installation of a low, setback, earthen berm for habitat and minor flood protection, and installation of large wood and native plants throughout the project area.
Nature Vision	Youth Watershed Education, Stewardship, and Community Science	\$32,701	\$35,264	\$35,264	Up to 350 students from the Riverview and Snoqualmie Valley School Districts will participate in Nature Vision's educational programming, including restoration field trips and community science projects. 14 classes of 3rd-12th grade students will become "Blue Teams" by completing an education-based action project and participating in data collection aiming to improve salmon habitat and water quality.

Project Sponsor	Project Name	Leveraged Funds	Final Request	PRC Recomm.	Short Description
Wild Fish Conservancy	Cherry Creek Mainstem Restoration Ph. 3	\$200,000	\$350,000	\$350,000	The project proposes to construct Phase 3 of the Lower Cherry Creek Restoration Project, located just upstream of the confluence of Cherry Creek and the Snoqualmie River, in the Snoqualmie River floodplain. The objective of the project is to improve instream and riparian habitat conditions along approximately 1200 feet of the lower mainstem of Cherry Creek. The project includes the removal of bank armoring, the installation of large woody debris structures, and re-contouring the banks of the channel to create riparian habitat benches.
Wild Fish Conservancy	Chinook Bend-Tolt LWD Assessment	\$85,000	\$60,000	\$60,000	This project proposes to conduct public outreach to assess recreational boater usage in a 4-mile reach of the Snoqualmie River that is critical salmon habitat. The project proposes to then use the information gained from the public outreach to inform the design of conceptual Large Woody Debris (LWD) habitat restoration treatments in the reach.
King County	Tolt River Natural Area Acquisition	\$150,000	\$300,000	\$300,000	The project proposes to purchase 32.16 acres of river-front property on the Tolt River for habitat preservation and minimal restoration. The property has high quality salmon habitat including gravel bars, wetland ponds, connected floodplain and backwaters in a top priority sub-basin for salmon recovery.
King County	Griffin Creek Conservation Easement	\$0	\$125,000	\$125,000	The project is seeking funding assistance to help fund the acquisition of a conservation easement on property that has Snoqualmie mainstem riverfront and contains lower Griffin Creek. A conservation easement would provide King County the opportunity to design and implement a habitat restoration project that improves salmon habitat and reduces flood damage on nearby farms.
Forterra	South Fork Skykomish Riparian Revegetation	\$80,000	\$233,242	\$125,000*	The project sponsor and King County Noxious Weeds Control Program are proposing to revegetate riparian areas and continue control on invasive Knotweed infestations with the ultimate goal of creating functional riparian habitats that will benefit ESA-listed fish populations as well as other aquatic and terrestrial species. If funded, 100% of the riparian corridor along the South Fork Skykomish River within King County will enter a 'maintenance phase' meaning there will be less than 5% of the original knotweed infestation and areas can be transitioned toward riparian revegetation projects and thereby reducing the need for future herbicide applications to every other year rather than annual.

Project Sponsor	Project Name	Leveraged Funds	Final Request	PRC Recomm.	Short Description
City of Duvall	Lake Rasmussen Aquatic Weed Treatment	\$17,800	\$19,100	\$10,300*	The project proposes to eliminate a Class B noxious weed (<i>Egeria densa</i>) that has been observed in the City of Duvall's Lake Rasmussen. The City would partner with staff at the King County Noxious Weed Control Program who are currently working on getting an herbicide permit ready to start work this summer to treat the plant and prevent it from spreading downstream to the Snoqualmie River.
Mountains to Sound Greenway Trust	Equitable Green Opportunities for Youth in Highline	\$60,400	\$56,109	\$34,205*	The project sponsor is seeking funding for Equitable Green Opportunities for Youth in Highline (EGOYH), a summer internship program created in partnership with the Highline School District and Pacific Education Institute. Over a six-week summer internship focused on ecological restoration (emphasizing on-the-ground applications), EGOYH equips teens with knowledge, skills, and inspiration they need to pursue conservation careers while they earn a stipend and school credit.
Sound Salmon Solutions	Community Action Training School (CATS 2022)	\$6,921	\$22,950	\$22,950	The project proposes further investment in CATS. The Community Action Training School (CATS) program provides participants with the knowledge, skills, confidence, and support to plan and implement on the ground projects to improve water quality and aid in salmon recovery. CATS participants learn from experts through formal presentations, field experiences, and guided discussions while receiving ongoing mentoring from their program facilitators to develop their own community-driven stewardship action projects to improve watershed health.
Wild Fish Conservancy	WRIA 07 – KC Fish Passage Barrier Supplementation (Ph. I)	\$25,480	\$136,163	\$0	The project sponsor and partner propose utilizing the Washington Department of Fish and Wildlife Fish Passage Inventory and Assessment protocol to evaluate fish passage at 217 fish passage structure sites and 43 natural barriers which have not been assessed in the previous five years and have been identified as data gaps within currently classified fish-bearing waters and/or within high priority sections of the selected sub-basins (Cherry Cr, Harris Cr., Patterson Cr., and mid-mainstem Snoqualmie) .
Sound Salmon Solutions	Seattle Audubon Property Riparian Restoration Ph. I	\$500	\$118,859	\$0	The project proposes to control invasive vegetation and install native vegetation on 950 feet of the right bank upper-mainstem Snoqualmie River and 595 feet of both banks of an unnamed tributary, totaling 5.12 acres, to improve water quality and salmon habitat.

Project Sponsor	Project Name	Leveraged Funds	Final Request	PRC Recomm.	Short Description
King County	Beaver dams: baseline data and device functionality	\$80,428	\$45,352	\$0	The project proposes to collect hydraulic data on 6-8 beaver dams 12-14 times per year, to begin to build a dataset for how the dams store water year-round, pass water during low flows and high flows, and change over time in order to have data to compare to beaver dams with pond levelers as well as, eventually, with beaver dam analogs. Some groups and plans promote the use of beavers for salmon recovery and climate change mitigation, other people need solutions for coexisting with animals whose efforts flood their land; this work is aimed at providing data to support both.
Ducks Unlimited	Stossel and Cherry Creek Beaver Dam Analog Risk Assessment	\$2,000	\$13,709	\$0	The project proposes to assess risk of Beaver Dam Analogs at previously identified locations for small scale water storage in Cherry and Stossel Creek.
Stewardship Partners	Wallace Acres Livestock Exclusion and Riparian Restoration, 2021	\$5,000	\$130,620	\$0	The project proposes to install 1.5 miles of livestock exclusion fence and restore approximately 3,000 linear feet (6.2 acres) of riparian habitat along the north facing, left bank of the mainstem Snoqualmie River at Wallace Acres Farm near Duvall, WA.
Wild Fish Conservancy	Snoqualmie Yearling Chinook eDNA	\$1,000	\$69,316	\$0	This project proposes to expand on a recently-completed CWM-funded assessment focused on understanding basin-wide juvenile yearling chinook habitat use and distribution patterns (Kubo 2021). Project results would increase our understanding of juvenile Chinook summer habitat distribution in floodplain tributaries of the Snoqualmie River watershed to refine habitat restoration and protection strategies for salmon recovery efforts in the watershed.
King County	Planting Best Places First	\$10,000	\$51,156	\$0	The project proposes to explore the potential of directing plantings associated with agriculture drainage projects to areas critical for salmon recovery rather than the default areas adjacent to the drainage improvement site required by current state HPA conditions. The intended benefit would be to bring higher quality improvements to salmon habitat as part of agriculture work and ideally, net gain.
City of North Bend	SV Trail Channel Widening and Wetland Creation / Enhancement Project	\$225,000	\$225,000	\$0	The project proposes to create and enhance wetland and associated buffers in the North Bend area to increase the cooling and natural water quality treatment prior to discharge into the South Fork Snoqualmie River. There is a drainage swale just up from the wetland site that is an outlet for a drainage area of approximately 100 acres which would also be improved with City match.

Project Sponsor	Project Name	Leveraged Funds	Final Request	PRC Recomm.	Short Description
King County	SV Storytelling through PhotoVoice	\$28,000	\$37,847	\$0	The project proposes to bring the globally-recognized PhotoVoice https://photovoice.org training to the Fish, Farm, Flood Implementation Oversight Committee (FFF) to train members how to take photos that bring storytelling and community engagement to the forefront of the FFF. Members would be trained in photography and then sent out into the Valley to take photographs that answer questions such as “What does the Snoqualmie Valley mean to you”, “How do you support salmon recovery” and “How do farms support conservation” and “how do fish support farms” then displayed in an art installation that will heighten the sense of place and belonging as well as increase mutual understanding among FFF committee members and the community they represent.
King County	Snoqualmie Valley 2D Modeling	\$0	\$80,001	\$0	The project proposes to build a 2-Dimensional Unsteady State (2D) hydraulic computer model of the lower Snoqualmie Valley to provide for more sophisticated near term analysis of: opportunities for augmenting Valley infrastructure proposals with habitat restoration components; cumulative impacts of habitat and infrastructure on Valley land uses; vulnerable road segments under a variety of flood events (small to large); and, potential fish passage barriers. In the longer term, the 2D model, if connected with the Snohomish River 2D model, may allow for robust analysis of climate impacts on Valley water courses and under various forest management scenarios.

* Project Review Committee is recommending partial funding

** Project Review Committee is recommending additional funding in agreement with project sponsor to expand the scope of the project and improve desired outcomes.