



Signature Report

FCD Resolution

Proposed No. FCD2019-11.1

Sponsors

1 A RESOLUTION relating to the operations and finances of
2 the King County Flood Control Zone District; authorizing
3 the expenditure of District funds for projects and activities
4 in accordance with the Flood Reduction Grants.

5 WHEREAS, the King County Flood Control Zone District ("District") adopts an
6 annual work program, budget, operating budget for King County, capital budget and six-
7 year capital improvement program pursuant to chapter 86.15 RCW; and

8 WHEREAS, in 2014, the District created the Flood Reduction Grant fund to
9 provide grant funding for projects with flood reduction benefits, including, but not
10 limited to, surface water overflows, near shore flooding, lake flooding due to outflow
11 blockage, or the clearance of clogged agricultural drainage systems, and

12 WHEREAS, the District desires to continue funding projects in the Flood
13 Reduction Grant fund; and

14 WHEREAS, in establishing the District's 2019 budget, the District provided
15 \$3,630,513 in funding in the Flood Reduction Grant Fund; and

16 WHEREAS, a selection committee composed of the director of the water and land
17 resources division of the King County department of natural resources and parks, the
18 District's executive director and a former Newcastle mayor reviewed the 2019
19 applications for grant funds and made a recommendation regarding them to the District;

20 WHEREAS, the District's executive committee reviewed the selection
21 committee's recommendations;

22 WHEREAS, based on the recommendation of the selection committee, as
23 considered and modified by the District's executive committee, the board of supervisors
24 desires to approve the 2019 grant fund applications and projects; now, therefore

25 BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING
26 COUNTY FLOOD CONTROL ZONE DISTRICT:

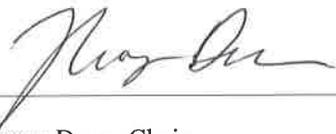
27 SECTION 1. The board of supervisors approves the 2019 King

28 County Flood Reduction Fund Grant Projects described on Attachment A
29 to this resolution.
30

FCD Resolution was introduced on and passed by the King County Flood Control District on 9/18/2019, by the following vote:

Yes: 9 - Mr. von Reichbauer, Mr. Gossett, Ms. Lambert, Mr. Dunn, Mr. McDermott, Mr. Dembowski, Mr. Upthegrove, Ms. Kohl-Welles and Ms. Balducci

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON



Reagan Dunn, Chair

ATTEST:



Melani Pedroza, Clerk of the District

Attachments: A. Flood Reduction Grant Recommendations, August 19, 2019

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Adopt-a-Stream Foundation	<i>North Creek Beaver Analogs</i>	Create two beaver pond facsimiles on a 6.16-acre natural area owned by the City of Everett next to North Creek. Those ponds will reduce downstream flooding, erosion and stream bed scouring and improve fish and wildlife habitat.	North Creek	1	\$ 59,920	\$0	\$0
Bellevue, City of	<i>Mercer Slough Agricultural Drainage Repair</i>	Maintenance, repair, and replacment of the drainage system infrastructure at the Mercer Slough Blueberry Fields.	Mercer Slough/ WRIA 8	6	\$ 216,345	\$ 272,345	\$110,000
Black Diamond, City of	<i>Covington Creek Culverts Sliplining</i>	Install Ultraviolet Cured-In-Place Pipe (UV CIPP) liner in three 6-foot corrugated metal culverts that outlet from Lake Sawyer into Covington Creek crossing under 224th Ave. SE. The UV CIPP liner is considered structurally sufficient on its own without the existing pipe, although the existing pipe will remain to support the roadway during construction. This liner will increase flows compared to the existing pipe and when compared to other sliplining options.	Covington Creek/ WRIA 9	7 & 9	\$ 539,715	\$0	\$0
Bothell, City of	<i>35th Ave SE Drainage Improvements</i>	Undersized culverts and stormwater infrastructure along 35th Ave NE and 240th St SE cause roadway flooding even during low flows. This project would replace the existing 18-inch culvert with a fish passable culvert crossing at 35th Ave SE, upsize an 18-inch culvert crossing at 236th St SE and 35th Ave SE, and upsize 18-inch storm pipes located on the south side of 240th St SE between 35th Ave SE and North Creek.	Cole/Woods Creek/	1	\$ 400,000	\$ 1,027,199	\$275,000
Delridge Neighborhoods Development Association	<i>Delridge Wetland Restoration & Stewardship</i>	Continue the development of Delridge Wetland Park, including the construction of a bio-filtration swale to intercept storm water before it enters the wetland, and pathways to provide public access without impact on the bioswale and wetland vegetation and soils. Work in concert with SDOT, SPU to transform existing green stormwater infrastructure (gsi) for the neighborhood to decrease flooding of neighbor yards and roadways, and create a safe route to school connection between Delridge Wetland Park and K-8 STEM School at Louisa Boren.	Longfellow Creek/ WRIA 9	8	\$320,010	\$221,225	\$175,000

Attachment A - Flood Reduction Grant Recommendations, August 19, 2019

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Drainage Improvement District #7	<i>Levee Rebuilding in Cherry Valley - Design, Permits and Construction, Phase B</i>	The project will develop final design and secure permits for levee improvements along the left bank of Cherry Creek within the Snoqualmie River floodplain. It is estimated that 1,900 feet of the highest priority levee work will be implemented during this phase with suitable soil material from the nearby Cherry Creek Restoration Project being provided by Sound Salmon Solutions.	Cherry Creek/ WRIA 7	3	\$398,000	\$250,000	\$0
Enumclaw, City of	<i>Battersby Culverts Replacement</i>	This project will replace two aging culverts that drain a large area of the City of Enumclaw. The existing culverts are failing and cause frequent flooding between SR 410 and Battersby Avenue. A supplemental benefit of this project is improvements to fish passage in Watercress Creek.	Green River/ WRIA 9	9	\$301,000	\$120,679	\$301,000
Evergreen Estates Owners Association	<i>Evergreen Estates Stormwater Management System Remediation</i>	Planning phase for an upcoming (2021) remediation project of a privately-owned stormwater management system at the Evergreen Estates Condominium community. Grant funding will contribute to investigation, planning, and development of project documents (drawings and specifications) to construct sustainable, a code compliant stormwater management system.	Lake Washington/ Cedar River/ WRIA 8	6	\$136,555	\$0	\$75,000
Hidden Valley Property Owners Association	<i>South Fork Hamm Creek Retaining Walls</i>	Build a soldier pile retaining wall system beneath four 150 foot sections of Country Club Lane. Secure the road with a gate to stop persistent dumping of garbage from outside community members. This project will assist in mitigating the erosion, landslide, seismic, and pollution hazards to South Fork of Hamm Creek.	S. Fork Hamm Creek/ WRIA 9	8	\$260,000	\$0	\$190,000
Homestead Community Land Trust	<i>Willowcrest</i>	Introduce exemplary stormwater management infrastructure on an affordable homeownership project, natural treating 20-25% runoff onsite. A key focus will be pollutant discharge elimination through bioswales, raingardens and permeable paving.	Cedar River/Lake Washington Watershed / WRIA 8	9	\$50,000	\$0	\$0
Hunts Point, Town of	<i>Hunts point Lane Culvert Replacement Project</i>	The Hunts Point Lane Culvert Replacement Project will replace an existing 90 LF 48-inch diameter CMP culvert with 14-ft. wide, 3-sided box culvert. The project includes roadway restoration and improvements to the upstream and downstream riparian corridor.	Cozy Cove Crk./ WRIA 8	6	\$400,000	\$212,000	\$35,000

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
King Conservation District	<i>KCD Agricultural Drainage Project - Phase 6</i>	This project builds on five years of Flood Reduction grants to KCD to develop and implement an expanded set of services facilitating increased landowner participation in King County's Agricultural Drainage Assistance Program (ADAP). Given the significant response to our outreach efforts (including specific outreach to non-English speaking farmers), and documentation of drainage problems, we propose an extension of funding for KCD's partnering role with King County to coordinate projects, provide cost share assistance to landowners, and monitor projects.	Ag ditches in WRIAs 7, 9, 10	3, 7, 9	\$281,799	\$46,090	\$140,000
King County DNRP, Water & Land Resources	<i>Abel Parcels Acquisition at Lake Kathleen</i>	Obtain a professional real estate appraisal for purchase of Parcels 182306-9040, 182306-9082 and 182306-9084, located adjacent to each other on W Lake Kathleen Dr SE. Purchase said parcels for ownership by King County.	Lake Kathleen, WRIA 8	9	\$275,000	\$0	\$15,000
King County DNRP, Water & Land Resources	<i>Johnson Culvert Replacement - Habitat Improvement & Flood Mitigation</i>	Removal of three 12-inch concrete culverts conveying seasonal salmon stream across private access road. Installation of a culvert designed to fish passage standards, most likely an open bottom box culvert. Repair/restoration of channel immediately upstream and downstream of the culvert. Grant would cover cost of the culvert and half of the construction costs.	Trib. of McDonald Crk./ Issaquah Crk. In WRIA 8	9	\$35,000	\$30,000	\$35,000
King County DNRP, Water & Land Resources	<i>Mud Creek Sediment Facility Design and Permitting</i>	The purpose of this project is to design and permit a sediment facility on parcel 132407-9084. Mud Creek has a history of sediment deposition, channel aggradation, flooding, and channel avulsions at this location. A feasibility study was recently completed for siting a sediment facility and property acquisition of the parcel is underway. Grant funding would go towards design and permitting for this sediment facility.	Mud Creek/ Snoq. River/ WRIA 7	3	\$432,000	\$0	Recommended for CIP Funding

Attachment A - Flood Reduction Grant Recommendations, August 19, 2019

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
King County Road Services Division	South Langston Road Drainage Improvement	Upgrade under-sized, poorly functioning existing drainage system of pipe and limited ditch, from South 124th Street to SR 900. Existing pipe and ditch do not sufficiently carry stormwater and result in frequent flooding of multiple adjacent residential and commercial properties. The proposed project will upsize all pipe and channels/ditches, as required by KC Surface Water Design Manual.	Lower Green Duwamish/ WRIA 9	2	\$994,750	\$0	\$215,000
King County Road Services Division	South 106th St. @ #1725 Drainage Improvement	Replace an existing damaged and undersized 12" pipe that runs under eleven (11) properties with a new pipe system to be located mostly within road right-of-way. The existing pipe does not sufficiently carry stormwater, resulting in frequent flooding of the roadway and private properties on 18th Ave South, along S 107 St and S 106 St.	Lower Green Duwamish /Hamm Crk. Trib. / WRIA 9		\$451,000	\$0	Recommended for CIP Funding
King County Road Services Division	20221 Vashon Highway Drainage Improvement	The Vashon Highway Drainage Improvement project will upgrade an under-sized, poorly functioning existing pipe and catch basin system at 20221 Vashon Highway SW with a new fish passable design. The existing system does not sufficiently carry stormwater and results in roadway flooding during heavy rain events and roadway sinkholes caused by concrete pipe section separating. The proposed project will install a box culvert in accordance with standards in the King County Surface Water Design Manual and the Washington State Department of Fish and Wildlife Hydraulic Design Guidelines.	Judd Creek/ Central Puget Sound Watershed/ WRIA 9	8	\$774,910	\$0	\$0
Kirkland, City of	Finn Hill/Denny Creek Flood Reduction	Reroute stormwater system and install stormwater detention to resolve neighborhood-scale flooding, and to protect Denny Creek. Design/Permitting work is funded and underway through a prior KCFCD award and City of Kirkland Stormwater Utility funding. Additional construction funding for a new detention vault and conveyance retrofits is still needed to realize the full benefits of this project.	Denny Creek / WRIA 8	1	\$539,000	\$444,000	\$325,000

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Maple Valley	<i>Jenkins Creek Daylighting Under 220th Ave SE</i>	As part of the larger Witte Road expansion project, these funds will go towards removal of the intersection of 220th Ave. SE with Witte Road SE where a culvert currently exists that conveys Jenkins Creek. Removal of this road and associated culvert will open up the South Fork of Jenkins Creek, removing a flow restriction and restoring passage for a fish bearing stream.	South Fork Jenkins Creek/ WRIA 9	9	\$225,000	\$5,000	\$225,000
Mid Sound Fisheries Enhancement Group	<i>Thornton Creek North Branch Flood Storage at NE 125th St.</i>	The Mid Sound Fisheries Enhancement Group in partnership with the City of Seattle and the local community will complete a conceptual design for a flood reduction project on the North Branch of Thornton Creek at 125th Street. This community-initiated project is planned for property that the City will acquire by the end of 2019 making it available for a project to reconnect the floodplain, increase flood storage capacity, improve climate and ecosystem resilience, and restore green space in a heavily urbanized area.	Thornton Creek / WRIA 8	1	\$250,050	\$110,000	\$250,050
Mountains to Sound Greenway Trust	<i>Ballinger Open Space Restoration, Phase 2</i>	Alleviate flood concerns associated with an undersized culvert and provide additional benefits in this underutilized public open space. Ecological conditions within the space are heavily affected by substantial infestations of invasive species that have a deleterious effect on stormwater management and water quality, threaten native plants and habitat, and increase sedimentation and runoff. The Greenway Trust will work with the City of Shoreline and community members to improve ecological conditions within the Open Space and local water quality by clearing invasive weeds from 1.3 acres and restoring the areas through the planting of native trees and shrubs with a focus on installing native conifers.	Ballinger Creek/ Lake Washington/ WRIA 8	1	\$32,000	\$14,000	\$32,000
Newcastle, City of	<i>116th Ave SE & Edmonds Ave NE Pipe Realignment</i>	Existing City stormwater pipe has bends that clog and discharges runoff from the City right-of-way directly onto private property. Project is planned for 2020 design and 2021 construction, and will redirect runoff by installing a new pipe and catch basins in a new drainage easement. The project will also install a new outfall on City-owned park property.	WRIA 8	9	\$103,000	\$69,650	\$103,000

Attachment A - Flood Reduction Grant Recommendations, August 19, 2019

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Normandy Park, City of	<i>Walker and Sequoia Creeks Culvert Replacement Design</i>	Design a replacement for two existing 18-inch culverts that convey Sequoia Creek and one 24-inch culvert that conveys Walker Creek in the vicinity of 12th Ave SW and SW Eastbrook Rd. and an existing 24-inch culvert that conveys Sequoia Creek across SW 174th St. The culverts do not have adequate hydraulic capacity to convey high flows in the creeks and the culverts have been identified as possible fish passage barriers by WDFW.	Walker Crk. Watershed/ WRIA 9	5	\$500,000	\$10,000	\$200,000
Redmond, City of	<i>10000 Block of Avondale Road Erosion</i>	Floodwaters from Bear Creek are scouring the toe of a 15- foot high roadway embankment near the 10000 block of Avondale Road, damaging two stormwater outfalls and causing subsidence of the road shoulder under the sidewalk. In order to protect the roadway itself, Redmond will design a solution to stabilize the slope and protect the roadway and utilities. Redmond is requesting grant funding for final design and construction to augment Redmond CIP funding for the project.	Bear Creek/ WRIA 8	3	\$335,000	\$650,000	Recommended for CIP Funding
Renton, City of	<i>Monroe Avenue NE Storm System Improvement</i>	Design and construct a permanent solution to replace the existing stormwater overflow from Monroe Ave NE into a private property at 301 Monroe Ave NE. This project will use a combination of the following facilities and strategies to prevent historic flooding along Monroe Ave NE, south of NE 4th St: Infiltration facilities, flood overflow bypasses, and flow splitters.	Cedar River/Lake Washington Watershed / WRIA 8	9	\$200,000	\$250,000	\$125,000
Sammamish, City of	<i>George Davis Creek Fish Passage</i>	The George Davis Creek Fish Passage Project will support the recovery of Lake Sammamish kokanee salmon and benefit other salmonids by removing three fish-passage barriers on George Davis Creek The project will restore access to one river-mile of high-quality spawning habitat and reestablish natural sediment transport and deposition processes in the ecosystem. This will reduce the risk of flooding by removing an in-line sedimentation pond and use of the creek's high-flow bypass system which have caused down-stream property and road flooding since their installation in 1996.	Lake Sammamish/ WRIA 8	3	\$400,000	\$5,902,000	Recommended for CIP Funding

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KL COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Save Habitat and Diversity of Wetlands (SHADOW)	Shadow Lake Preservation Project	The goal of SHADOW Lake Nature Preserve's Preservation Project is to purchase land that contains wetland habitat along Shadow Lake's waterfront and surrounding area for habitat preservation. By preserving this wetland habitat, SHADOW will be contributing to flood prevention and erosion control, and helping to increase water quality in the Puget Sound.	Shadow Lake/ WRIA 9	9	\$80,000	\$0	\$0
SeaTac, City of	S. 180th St. Flood Reduction	Study alternatives and design a flood reduction facility to eliminate flooding at the end of S 180th St. Potential solutions include a flow control structure within the ROW or acquiring property for a natural drainage system to attenuate flows.	Des Moines Creek Basin / WRIA 9	5	\$250,000	\$0	\$125,000
Shoreline, City of	Storm Creek Erosion Management	Address a badly-eroded reach of Storm Creek to manage erosion and mitigate landslide-driven flood risk within a steep bluff-side area close to homes. If no action is taken, severe erosion will continue and risk of catastrophic erosion, landslide, and blockage-driven flooding will increase, threatening public safety, critical public infrastructure, private residences, and Puget Sound water quality. The City of Shoreline has teamed with the Ronald Wastewater District, the Innis Arden Club (homeowners association), and adjacent private property owners to collaborate on a solution.	Storm Creek/ Middle Puget Sound Basin/ WRIA 8	1	\$452,000	\$448,000	\$225,000
Snoqualmie, City of	2019 Flood-prone Home Elevations	The elevation of five repetitive loss properties towards completion of elevations in the Northern Street area and start elevations in the floodway on Walnut Street in the Meadowbrook neighborhood.	Kimball Creek, Snoqualmie River/WRIA 7	3	\$1,118,000	\$7,000	Recommended for CIP Funding
Snoqualmie Valley Preservation Alliance	Fish & Recreation-friendly Bank Stabilization Concept Development	Develop conceptual design options for recreation and fish-friendly bank stabilization on a failing bank of the Snoqualmie River which is threatening road access to two rural businesses. The project includes conducting a high-level needs assessment to quantify the need for this type of project throughout the entire study area of the lower Snoqualmie River.	WRIA 7	3	\$37,600	\$0	\$0

Attachment A - Flood Reduction Grant Recommendations, August 19, 2019

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Snoqualmie Valley Watershed Improvement District	<i>SVWID Drainage Improvement Program 2020-2022</i>	The SVWID Drainage Improvement Program includes a work plan for implementation of the SVWID network analysis project funded by the King County Flood Control District in 2016. The 2019-2020 work plan includes: 1) 4 culvert replacements on Langlois Creek; 2) Conceptual design development for Tuck Creek flooding issues; 3) North End drainage pump replacement; 4) Construction ready design and permits for Cherry Creek avulsion flooding; 5) ~1,700 linear feet of N. Fork Cherry Creek vegetation removal; 6) 5-year HPA and maintenance contract for SVWID beaver management activities; and 7) development of template basin plan. The work plan also includes various levels of outreach and basin planning for drainage projects in SVWID drainage basins #56, 9, 1,4,7, 6.	Lower Snoqualmie River/ WRIA 7	3	\$371,800	\$495,500	\$300,000
Society of St. Vincent de Paul Council of Seattle/ King County	<i>Storm Drainage Repair at Georgetown Foodbank & Community Service Center</i>	This project at the Georgetown Foodbank & Community Service Center will involve digging up the asphalt and rebuilding the drainage system to handle the increasing stormwater runoff and provide relief for oversaturated soils that threaten the buildings and safety of people involved in vital human services delivery.	Duwamish River Watershed / WRIA 9	8	\$55,000	\$0	\$55,000
Stewardship Partners	<i>Full Circle Farm Demonstration Rain Garden and Carnation Green Infrastructure Integration</i>	Stewardship Partners will install a 3,200 square foot demonstration rain garden/bioswale at Full Circle Farm to manage 687,500 gallons of stormwater annually, perform a green infrastructure assessment at Orenda Winery and integrate these efforts in our City of Carnation Green Infrastructure Initiative. This proposal builds on the success of our Snoqualmie Strategy green infrastructure efforts.	Snoqualmie Basin/ WRIA 7	3	\$49,110	\$14,000	\$49,110
Washington Shores I Homeowners Association	<i>Drainage & Site Improvements - Phase I</i>	The HOA is undertaking property improvements to include multiple site water & landscape projects. Goals include: protecting existing structure from further flood damage; improving site water drainage system; improving landscape at site and waterfront.	Lake Washington/ WRIA 8	6	\$321,121	\$0	\$50,000
TOTALS					\$ 11,644,685	\$10,598,688	\$3,630,160