



King County

1200 King County
Courthouse
516 Third Avenue
Seattle, WA 98104

Meeting Agenda

King County Flood Control District

Boardmembers: Dave Upthegrove, Chair; Reagan Dunn, Vice Chair; Claudia Balducci, Rod Dembowski, Jeanne Kohl-Welles, Kathy Lambert, Joe McDermott, Pete von Reichbauer, Girmay Zahilay

1:00 PM

Wednesday, June 10, 2020

Virtual Meeting

SPECIAL MEETING

PUBLIC NOTICE: The King County Flood Control Board's June 10, 2020 SPECIAL Meeting will be held virtually. To help prevent the spread of the COVID 19 virus the chambers will be closed and all Boardmembers and staff will be participating in the meeting remotely. The live feed of the video conference will be streaming on the Council's website and on KCTV channel 22.

HOW TO LISTEN TO THE MEETING:

1) Stream online via the link below

To Watch Online Live Streaming Video of the Meeting input the web address below in your web browser:

<https://livestream.com/accounts/15175343/events/4485487>

2) To watch on King County TV tune to Channel 22 (Comcast Channel 22 and 322(HD) or Wave Broadband Channel 22).

To show a PDF of the written materials for an agenda item, click on the agenda item below.

1. Call to Order
2. Roll Call
3. Approval of Minutes May 27, 2020
4. Approval of Invoices



Sign language and communication material in alternate formats can be arranged given sufficient notice (206-1000).

TDD Number 206-1024.

ASSISTIVE LISTENING DEVICES AVAILABLE IN THE COUNCIL CHAMBERS.



Discussion and Possible Action

5. Substitute FCD Resolution No. FCD2020-12.2 **pgs 9-12**

A RESOLUTION authorizing the chair to enter into an amendment to the Agreement for Special Counsel Legal Services.

6. FCD Resolution No. FCD2020-11 **pgs 13-62**

A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; adopting a revised 2020 budget, district oversight budget, capital budget, six-year capital improvement program for 2020-2025; and amending Resolution FCD2019-13.2 and Resolution FCD2020-05.1.

7. **Adjournment**



King County

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Seattle, WA 98104

Meeting Minutes

King County Flood Control District

*Boardmembers: Dave Upthegrove, Chair; Reagan Dunn, Vice
Chair; Claudia Balducci, Rod Dembowski,
Jeanne Kohl-Welles, Kathy Lambert, Joe McDermott, Pete von
Reichbauer, Girmay Zahilay*

1:00 PM

Wednesday, May 27, 2020

Virtual Meeting

SPECIAL MEETING DRAFT MINUTES

PUBLIC NOTICE: The King County Flood Control Board's May 27, 2020 SPECIAL Meeting will be held virtually. To help prevent the spread of the COVID 19 virus the chambers will be closed and all Boardmembers and staff will be participating in the meeting remotely. The live feed of the video conference will be streaming on the Council's website and on KCTV channel 22.

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1. Call to Order

The meeting was called to order at 1:01 p.m.

2. Roll Call

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

3. Approval of Minutes of April 14, 2020

Supervisor Lambert moved to approve the minutes of the April 14, 2020 meeting as presented. Seeing no objection, the Chair so ordered.

Discussion and Possible Action

4. **FCD Motion No. FCD20-06**

A MOTION relating to the King County Flood Control Zone District’s 2019 financial statements and adopting the King County Flood Control Zone District Financial Statements for the Year Ended December 31, 2019.

*Michelle Clark, Executive Director, briefed the Board and answered questions.
Horace Francis, District Accountant, answered questions of the Board.*

A motion was made by Chair Dunn that this FCD Motion be Passed. The motion carried by the following vote:

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

5. **Adjournment**

The meeting adjourned at 1:22 p.m.

Approved this _____ day of _____

Clerk's Signature



**KING COUNTY
FLOOD CONTROL
DISTRICT**

516 Third Avenue • Room 1200 • Seattle, WA 98104
206.296.1020 • info@kingcountyfloodcontrol.org
www.kingcountyfloodcontrol.org

Invoice Summary – June 10, 2020

Vendor	Invoice #	Amount
Warrants		
WA State Auditor's Office pg 6	L135709	\$3,732.30
Lund Consulting pg 7	KCFCD 2020-4	\$12,360.00

Board of Supervisors: Dave Upthegrove, Chair | Reagan Dunn, Vice-Chair |
Claudia Balducci | Rod Dembowski | Jeanne Kohl-Welles | Kathy Lambert | Joe
McDermott | Pete von Reichbauer | Girmay Zahilay

Invoice Voucher

Remit To: State Auditor's Office
 PO Box 40021
 Olympia, WA 98504-0021
 Federal ID No. 91-6001098



Page: 1 of 1
 Invoice No.: L135709
 Invoice Date: 03/10/2020
 MCAG No.: 2929
 County: King

King County Flood Control District
 516 Third Avenue King County Court House Rm 1200
 Seattle, WA 98104

Now accepting electronic payments
 Send to: Washington State Auditor's Office
 Routing: 123000848 Account: 153911801147
 Account type: Checking
 Please include invoice number



(Return this portion with your payment)

State Auditor's Office

(Detach and retain for your records)

Entity Name: King County Flood Control District
 Invoice No.: L135709
 Invoice Date: 03/10/2020

Audit No.: 47043 Audit Period: 18 - 18 Purchase Order:

Month/Year	Work Performed	Bill Rate	Hrs	Amount	Travel/Other Expenses	Total
02/20	Accountability Audit	\$113.10	4.5	\$508.95	\$0.00	\$508.95
02/20	Financial Audit	\$113.10	28.5	\$3,223.35	\$0.00	\$3,223.35
Sub Total:			33.0	\$3,732.30	\$0.00	\$3,732.30

Total Due This Invoice: 33.0 \$3,732.30 \$0.00 \$3,732.30
 (Hrs rounded to nearest tenth)

JV Number: 210202

**FULL PAYMENT DUE
 IN 30 DAYS**

I hereby certify the amount listed herein is a proper charge for services rendered:

By: Janel M. Roper, Director of Administrative Services



Invoice: KCFCD 2020-4 Lower Green River Corridor Plan and EIS Project Manager

June 1, 2020

Michelle Clark, Executive Director
King County Flood Control District
1200 King County Courthouse
516 Third Avenue Seattle, WA 98104

Invoice period: May 1-31, 2020

Professional Services:

Activities described below.

Total Amount Due **\$12,360.00**

Please remit payment to: *Lund Consulting, Inc.*
1941 26th Avenue East
Seattle, WA 98112

Activity Report:

Worked with team Parametrix, (Cascadia, Gallatin, Faucett) on findings and recommendations relative to interview process and process for developing additional alternatives.

Worked with subcontractors to update content on project web site.

Worked with Parametrix to review schedule, deliverables from subcontractors, methodology reports, hydraulic model guidelines, plan chapters, deliverables from King County staff.

Participate in weekly team check-in meetings.

Keep Executive Director informed.

Advance deliverables to Executive Director for feedback.

Review contracts and invoices.

Monitor schedule.

Monitor media coverage.

Lund Consulting, Inc.
1941 26th Avenue East Seattle, WA 98112
206-612-8138
www.lundconsulting.com

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KING COUNTY

1200 King County Courthouse
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Seattle, WA 98104

Signature Report

FCD Resolution

Proposed No. FCD2020-12.2

Sponsors

1 A RESOLUTION authorizing the chair to enter into an
2 amendment to the Agreement for Special Counsel Legal
3 Services.

4 WHEREAS, the King County Flood Control Zone District has entered into an
5 Agreement for Special Counsel Legal Services with Inslee, Best, Doezie & Ryder, P.S. ;
6 and

7 WHEREAS, the District desires to amend the Agreement for Legal Services as set
8 forth in Attachment A to this resolution; now, therefore

9 BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING
10 COUNTY FLOOD CONTROL ZONE DISTRICT:

11 SECTION 1. The chair of the King County Flood Control Zone District is
12 authorized to enter into the “2020 Amendment to Agreement for Special Counsel Legal

13 Services,” Attachment A to this Resolution.

14

FCD Resolution was introduced on and passed as amended by the King County Flood Control District Executive Committee on 6/3/2020, by the following vote:

Yes: 4 - Mr. Dunn, Ms. Lambert, Mr. Upthegrove and Mr. von Reichbauer

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

Claudia Balducci, Chair

ATTEST:

Melani Pedroza, Clerk of the Council

APPROVED this ____ day of _____, _____.

Dow Constantine, County Executive

Attachments: A. EXHIBIT A 2020 Amendment to Agreement for Special Counsel Legal Services dated June 3, 2020

Dated June 3, 2020

**EXHIBIT A
2020 AMENDMENT TO
AGREEMENT FOR SPECIAL COUNSEL LEGAL SERVICES**

THIS 2020 AMENDMENT amends Section II.A of the Agreement for Special Counsel Legal Services (“Agreement”) between the King County Flood Control Zone District, King County, Washington, a municipal corporation of the State of Washington (“District”) and Inslee, Best, Doezie & Ryder, P.S. (“Law Firm”) as follows:

A. Amendment to Section I.C. Effective January 1, 2020, Section I.C. of the Agreement, as amended by the 2019 Amendment, is amended as follows:

I. Legal Services.

C. Charlotte Archer will have overall responsibility for the Law Firm under this Agreement.

B. Amendment of Section II.A. Effective January 1, 2020, Section II.A of the Agreement, as amended by the 2019 Amendment, is further amended as follows:

II. Services and Fees.

A. The District shall pay the Law Firm, as sole compensation for the services performed under this Agreement, such sums of money as are arrived at by computing the actual number of hours expended in the performance of this Agreement and multiplying such total hours by the hourly rates in Exhibit A to the 2020 Amendment. The total amounts paid for compensation shall not exceed annual budget appropriations for the services.

IN WITNESS WHEREOF, the parties hereto have executed this 2020 Amendment on the dates written below:

INSLEE, BEST, DOEZIE & RYDER, P.S.

KING COUNTY FLOOD CONTROL
ZONE DISTRICT

By: _____
Partner

By: _____
Board Chair

Date: _____

Date: _____

Dated June 3, 2020

EXHIBIT A

2020 Legal Services Rates

Municipal Group Partners

Charlotte A. Archer, \$320

Kinnon W, Williams, \$335

Kathy F. Weber, \$335

William A. Linton, \$335

Kay L. Brossard, \$325

Dawn F. Reitan, \$325

Rosemary A, Larson, \$325

Eric C. Frimodt, \$325

Other municipal group partners (if added) - Depending on experience, but no more than \$345

Associates and Law Clerks - Regular Firm rates, rounded to next lower \$5 increment, or special lower municipal rates if applicable, but in either case less than the lowest Municipal Group Partner rate

Other firm partners (if services are requested by District)

10% less than regular Firm rates, rounded to next lower \$5 increment, or special lower municipal rates if applicable

Paralegals \$220, or special lower municipal rates if applicable

Law Clerks \$245

The District shall be responsible for third party costs (e.g., expert witness fees). Except for unusual cases, the Firm will not advance funds to pay third party costs, and invoices for those costs will be forwarded to the District for payment. The Firm will bill the District for out-of-pocket expenses incurred on the District's behalf, including but not limited to court fees, deposition costs, photocopying, long distance telephone, special mailing or courier, telecopying, telex, travel expenses and computerized legal research.



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

FCD Resolution

Proposed No. FCD2020-11.1

Sponsors

1 A RESOLUTION relating to the operations and finances of
2 the King County Flood Control Zone District; adopting a
3 revised 2020 budget, district oversight budget, capital
4 budget, six-year capital improvement program for 2020-
5 2025; and amending Resolution FCD2019-13.2 and
6 Resolution FCD2020-05.1.

7 WHEREAS, the King County Flood Control Zone District ("the District")
8 adopted its 2020 work program, budget, operating budget, capital budget, and six-year
9 capital improvement program in Resolution FCD2019-13.2, and

10 WHEREAS, the District adopted an amendment to its 2020 budget, operating
11 budget, capital budget, and six-year capital improvement programs in Resolution 2020-
12 05.1; and

13 WHEREAS, the annual carry-forward budget resolution is necessary to provide
14 budget authority for unspent appropriations from the prior year and to reinstate contract
15 encumbrances, and

16 WHEREAS, the carry-forward amount for unspent appropriations from 2018 to
17 2019 is \$113,566, 131, and

18 WHEREAS, the District desires to continue respond to the October 2019 flood
19 event and the February 2020 Presidential Major Disaster flood event by reallocating

20 \$12.5 million in; and

21 WHEREAS, pursuant to RCW 86.15.140, the District held a public
22 hearing on the proposed carry-forward amount and a supplemental budget on
23 _____, and

24 WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("the Board")
25 has determined that the flood control improvements adopted by this resolution generally
26 contribute to the objectives of the District's comprehensive plan of development, and

27 WHEREAS, the Board desires to adopt amendments to the District's 2019
28 budget, operating budget, capital budget, and six-year capital improvement program;

29 NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF
30 SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

31 SECTION 1. The Board adopts a revised 2020 budget for the District, as set forth
32 in Attachment B to this resolution, titled "2020 Reallocation Budget May 15, 2020," and
33 amends Section 1 of FCD2020-05.1 accordingly.

34 SECTION 2. The Board adopts a revised 2020 operating budget for the District,
35 as set forth in Attachment C to this resolution, titled "2020 Reallocation Operating
36 Budget May 15, 2020," and amends Section 1 of FCD2019-13.2 accordingly.

37 SECTION 3. The Board adopts a revised 2019 capital budget for the District,
38 consisting of the projects and expenditures Attachment D to this resolution, titled "2020
39 Reallocated Capital Budget May 15, 2020," and amends Section 1 of FCD2020-05.1
40 accordingly.

41 SECTION 4. The Board adopts a revised six-year capital improvement program
42 for the District, as set forth in Attachment E to this resolution, titled "2020-2025

43 Reallocated Six-Year CIP May 15, 2020," and amends Section 1 of FCD2020-05.1
44 accordingly.

45 SECTION 5. The Board adopts a revised 2020-2025 capital budget project list, as
46 set forth in Attachment H to this resolution, titled "2019-2024 Six-Year CIP Project
47 Allocations + Carryover May 15, 2020," and amends Section 1 of FCD2020-05.1
48 accordingly.

49 SECTION 6. A. The Board authorizes the extension, enlargement, acquisition or
50 construction of improvements, as applicable, as set forth on Attachments B, C, D, E and
51 H of this resolution.

52 B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as
53 amended, serves as the comprehensive plan of development for flood control and
54 floodplain management, and has been prepared for the streams or watercourses upon
55 which the improvements will be enlarged, extended, acquired or constructed. The
56 improvements authorized herein generally contribute to the objectives of the Flood Plan.

57 C. For improvements that are to be constructed, preliminary engineering studies
58 and plans have been made, consisting of one or more of the following: the 2006 Flood
59 Plan, as amended, preliminary feasibility analyses, conceptual designs and design
60 manuals, and such plans and studies are on file with the county engineer.

61 D. Estimated costs for acquisitions and improvements together with supporting
62 data are set forth on Attachments B, C, D, E and H.

63 E. The improvements set forth in Attachments B, C, D, E and H are determined
64 to benefit the county as a whole, as well as the zone.
65

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

Claudia Balducci, Chair

ATTEST:

Melani Pedroza, Clerk of the Council

APPROVED this ____ day of _____, ____.

Dow Constantine, County Executive

Attachments: B. 2020 Reallocation Budget, C. 2020 Reallocated Operating Budget, D. 2020 Reallocated Capital Budget, E. 2020 - 2025 Reallocated Six-Year CIP, H. 2020 - 2025 Six-Year CIP Project Allocations + Carryover

King County Flood Control District

2020 Reallocation Budget

Attachment B

May 15, 2020

Program	2020 Approved	2019 Carryover	2020 Reallocation	2020 Revised
Flood District Administration	913,238	0	0	913,238
Maintenance and Operation	13,464,210	275,000	0	13,739,210
Construction and Improvements	94,984,555	113,291,131	(8,206,424)	200,069,262
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	109,362,003	113,566,131	(8,206,424)	214,721,710
Projected Capital Reserves - Cash Fund Balance ¹	93,504,495			97,683,976
Projected Capital Reserves - Budgetary Fund Balance ²	(10,452,178)			(57,122,803)

¹ The cash fund balance assumes an expenditure rate of 23% of the capital budget in 2020, informed by prior year actuals.

² The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand budgetary commitment.

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King County Flood Control District

2020 Reallocated Operating Budget

Attachment C

May 15, 2020

	2020 Approved	2019 Carryover	2020 Reallocation	2020 Revised	Comments
Annual Maintenance	\$3,305,056			\$3,305,056	
Flood Hazards Plan, Grants, Outreach	\$675,380	\$275,000		\$950,380	Carryover 2019 expenditure authority for Flood Hazard Management Plan update
Flood Hazard Studies, Maps, Technical Services	\$3,383,416			\$3,383,416	
Flood Preparation, Flood Warning Center	991,042			\$991,042	
Program Management, Supervision, Finance, Budget	\$1,727,017			\$1,727,017	
Program Implementation	\$246,986			\$246,986	
Overhead / Central Costs*	3,135,313			\$3,135,313	
Total	\$13,464,210	\$275,000	\$0	\$13,739,210	

* A portion of these overhead costs are reimbursed from the capital fund for staff time loaned out to capital projects.

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King County Flood Control District

2020 Reallocated Capital Budget

Attachment D

May 15, 2020

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$7,604,248	\$5,572,617	\$9,970,641	\$0	\$23,147,506
Cedar River Basin	\$2,601,637	\$6,691,708	\$17,156,737	\$0	\$26,450,081
Green River Basin	\$27,594,639	\$28,328,638	\$36,543,105	\$0	\$92,466,382
White River Basin	\$280,727	\$2,309,702	\$412,500	\$0	\$3,002,929
Effectiveness Monitoring	\$0	\$1,188,300	\$0	\$0	\$1,188,300
Countywide Miscellaneous	\$0	\$0	\$496,646	\$1,291,929	\$1,788,575
Opportunity Fund	\$0	\$0	\$22,626,278	\$0	\$22,626,278
Grant Funds	\$0	\$0	\$29,399,211	\$0	\$29,399,211
Total	\$38,081,250	\$44,090,964	\$116,605,119	\$1,291,929	\$200,069,262

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King County Flood Control District

2020 - 2025 Reallocated Six-Year CIP

Attachment E

May 15, 2020

Name	2020 Approved	2019 Carryover	2020 Reallocation	2020 Revised	2021	2022	2023	2024	2025	2020 - 2025 Total
Snoqualmie River Basin	\$8,933,012	\$12,768,999	1,445,495	23,147,506	14,583,585	18,763,277	13,555,407	27,126,341	27,324,575	124,500,690
Cedar River Basin	\$7,833,030	\$15,088,184	3,528,867	26,450,081	17,621,435	4,463,445	4,940,367	3,541,720	3,932,358	60,949,406
Green River Basin	\$55,025,510	\$52,129,521	(14,688,649)	92,466,382	85,855,463	76,741,492	10,806,094	8,565,231	5,092,073	279,526,735
White River Basin	\$1,171,209	\$1,673,690	158,030	3,002,929	1,259,966	8,672,705	8,508,038	136,895	190,000	21,770,533
Effectiveness Monitoring	\$330,232	(\$123,640)	981,708	1,188,300	890,956	834,056	892,524	804,751	585,512	5,196,098
Countywide Miscellaneous	\$100,000	\$1,320,450	368,125	1,788,575	392,592	396,870	401,276	405,815	410,489	3,795,617
Subregional Opportunity Fun	\$6,091,017	\$16,535,261	-	22,626,278	6,255,428	6,414,885	6,568,517	6,720,084	6,869,230	55,454,422
Flood Reduction Grants	\$15,500,545	\$13,898,666	-	29,399,211	21,879,132	22,467,680	23,072,061	23,692,699	24,330,033	144,840,816
WRIA Grants	\$0	\$0	-	-	-	-	-	-	-	-
Total	\$94,984,555	113,291,131	(8,206,424)	200,069,262	148,738,557	138,754,410	68,744,284	70,993,537	68,734,269	696,034,318

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2020 - 2025 Six-Year CIP Project Allocations + Carryover

Attachment H

May 15, 2020

Capital Investment Strategy Project
 Grant/External Revenue Awarded
 Cost Share Contribution to Others
 New Project - 2019 Revised
 Updated scope based on FCD approved charter

No.	Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expenditure	2020 Adopted	2019 Carryover	2020 Reallocation Request	2020 Revised	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	6-Year CIP Total (Including 2019 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
1	WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	FCD Acqui/Elev	\$1,145,404	\$703,571	(\$456,736)	\$441,833	\$3,184,903	\$3,170,000	\$456,736	\$0	\$0	\$0	\$115,927	\$3,742,663			\$4,446,235	Baring. This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during future flood events.
2	WLFL0 SKY W RVR DR FLOOD STUDY	SF Skykomish	FCD Const	\$81,237	\$2,856	(\$78,381)	\$78,381		\$0	\$78,381	\$0	\$0	\$0	\$0	\$78,381			\$81,237	Skykomish. This project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding of homes and property within the Town of Skykomish.
3	WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const	\$150,000	\$85,402		\$64,599		\$64,599	\$0	\$0	\$0	\$0	\$0	\$64,599			\$150,000	Skykomish. Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
4	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqui/Elev	\$2,409,874	\$1,969,442	(\$365,632)	\$440,432	\$358,200	\$433,000	\$0	\$765,632	\$0	\$0	\$0	\$1,198,632			\$3,168,074	Skykomish. This project will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as inundation in some places.
5	WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	FCD Const	\$16,040	\$12,970		\$3,070		\$3,070	\$0	\$0	\$0	\$0	\$0	\$3,070			\$16,040	Skykomish. Project will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry. Will likely be implemented by the Strike Team.
6	WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	FCD Const	\$600,000	\$160,050		\$439,950		\$439,950	\$0	\$0	\$0	\$0	\$0	\$439,950			\$600,000	Skykomish. Revetment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150 LF (needs verification). Failure has occurred previously in this section of revetment.
7	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	\$309,028	\$309,686		(\$658)	\$728	\$70	\$0	\$0	\$0	\$0	\$0	\$0			\$70	North Bend. Reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 92nd Street, and Reing Road to reduce the frequency of community isolation caused by floodwaters overtopping these roadways.
8	WLFL1 BENDIGO UPR SETBACK N BEND	Upper Snoq	Agreement	\$50,000	\$124		\$49,876		\$49,876	\$0	\$0	\$0	\$0	\$0	\$4,200,000			\$4,249,876	North Bend. Cost-share of \$8.4M levee setback project. The overtops at a 20-year or greater flood, inundating undeveloped property, railway lines and roadways. Project would reconnect 25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant application for the remaining \$4.2 million
9	WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	FCD Const	\$540,165	\$302,511	\$133,524	\$237,654		\$371,178	\$238,175	\$4,052,588	\$4,560	\$0	\$0	\$4,666,502			\$4,969,013	North Bend. This project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.
10	WLFL1 MF RESIDENTIAL FLD MTG TN	Upper Snoq	FCD Const	\$0	\$0	\$120,000	\$0		\$120,000	\$525,000	\$1,830,000	\$1,830,000	\$1,830,000	\$2,265,000	\$8,400,000			\$8,400,000	North Bend. Work with willing sellers to acquire eighteen homes at risk from channel migration along the Middle Fork (Project E in the draft Capital Investment Strategy)
11	WLFL1 MF SNO CORRIDOR IMP	Upper Snoq	FCD Const	\$954	\$954	\$0	\$0		\$0	\$1,162,249	\$1,196,980	\$1,232,889	\$377,890	\$0	\$3,970,962			\$3,970,962	North Bend. Placeholder for corridor plan implementation project(s)
12	WLFL1 MF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	\$1,824,912	\$1,658,993	\$27,585	\$165,919		\$193,504	\$0	\$0	\$0	\$0	\$0	\$193,504			\$1,852,497	North Bend. Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2018.
13	WLFL1 MF SNO PL84-99	Upper Snoq	FCD Const	\$0	\$0	\$75,000	\$0		\$75,000	\$75,000	\$0	\$0	\$0	\$0	\$150,000			\$150,000	North Bend. Upgrade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards.
14	WLFL1 NORMAN CREEK DS CULV	Upper Snoq	Agreement	\$724,000	\$722,080		\$1,920		\$1,920	\$0	\$0	\$0	\$0	\$0	\$1,920			\$724,000	North Bend. Replace two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The new culvert will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North Fork Snoqualmie River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this flood water once the North Fork has overtopped the adjacent levees.
15	WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$350,000	\$750,000	\$0	\$1,100,000			\$1,100,000	North Bend. Improve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert.
16	WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Agreement	\$177,742	\$177,742		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	North Bend. The North Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the bridge safe and reliable during a flood, it is important to protect the piers and abutments from scour failure.
17	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	\$200,000	\$10,265		\$189,735		\$189,735	\$0	\$0	\$0	\$0	\$0	\$189,735			\$200,000	North Bend. Initiate feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or alternative risk mitigation strategies.
18	WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	Agreement	\$987,835	\$168,985		\$818,850		\$818,850	\$0	\$0	\$0	\$0	\$0	\$818,850			\$987,835	Snoqualmie. Repair downstream 200 lineal feet of facility which is missing face rock and toe rock. A significant scour hole has formed around a City of Snoqualmie stormwater outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the City's planned "Riverwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2020.
19	WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq	FCD Const	\$0	\$0		\$0		\$0	\$0	\$265,438	\$318,421	\$385,937	\$457,218	\$1,427,014			\$1,427,014	North Bend. Conduct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or raise levee in place / setback levee / gravel removal / home elevations.
20	WLFL1 REINIG RD ELEVATION	Upper Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$50,000	\$100,000	\$150,000			\$150,000	Snoqualmie. Elevate low section of Reing Rd to alleviate flooding that blocks roadway.
21	WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	FCD Const	\$1,200,000	\$914,143	\$4,057,657	\$285,857	(\$3,943,514)	\$400,000	\$25,462	\$0	\$0	\$0	\$0	\$425,462			\$1,339,605	North Bend. Repair three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet. Construction is anticipated in 2020.
22	WLFL1 RIBARY CREEK	Upper Snoq	FCD Const	\$36,492	\$0	\$150,000	\$36,492	(\$150,000)	\$36,492	\$450,000	\$2,338,618	\$3,223,883	\$0	\$0	\$6,048,993			\$6,048,993	North Bend. Address flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.
23	WLFL1 SF CIS LONG TERM	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$57,100,000		\$57,100,000	Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
24	WLFL1 SF CIS MED TERM	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$47,200,000		\$47,200,000	Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
25	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$388,000	\$198,682		\$189,318		\$189,318	\$727,790	\$1,031,736	\$0	\$0	\$0	\$1,948,844			\$2,147,526	North Bend. Six levee deficiencies have been identified in this levee segment. The project will design and reconstruct the impaired segment of levee in place.
26	WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const	\$3,550,000	\$2,739,161		\$810,839		\$810,839	\$0	\$0	\$0	\$0	\$0	\$810,839			\$3,550,000	North Bend. Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could threaten 428th Ave embankment or bridge.
27	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	\$51,090	\$47,340	\$300,000	\$3,750		\$303,750	\$360,910	\$0	\$0	\$0	\$0	\$664,660			\$712,000	North Bend. Between 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodging and corresponding minor bank erosion along 50-60 feet of river bank. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Failure of this facility could result in damage to a heavily used county road (428th Ave SE). Scheduled for 2018 construction.
28	WLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const	\$396,754	\$288,037		\$108,717		\$108,717	\$0	\$0	\$0	\$0	\$0	\$108,717			\$396,754	North Bend. Repair approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. Si View Levee is a relatively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding. Project scheduled for 2018 construction.
29	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$100,000			\$100,000	North Bend. Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve conveyance and reduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
30	WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000			\$150,000	North Bend. Prepare a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the current bridge does not provide enough hydraulic opening due to the transport of sediments and water overtops the approaches during floods.
31	WLFL1 UPR SNO RES FLD MITG TN	Upper Snoq	FCD Acqui/Elev	\$12,717,550	\$11,552,715	\$1,756,037	\$1,164,835	(\$350,000)	\$2,570,872	\$2,295,755	\$2,364,628	\$2,435,567	\$2,508,634	\$2,583,893	\$14,759,348			\$26,312,064	Snoqualmie. This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the Riverwalk project.
32	WLFL1 USACE PL 84-99 SF SNO	Upper Snoq	FCD Const	\$333,377	\$40,136		\$293,241		\$293,241	\$352,868	\$363,454	\$0	\$0	\$0	\$1,009,563			\$1,049,699	North Bend. Ensure eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive future assistance from the Corps in the event of flood damage to the levees.
33	WLFL2 264TH AVE NE AT SR 202 FLD IMPRV MNT	Lower Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$540,000	\$540,000			\$540,000	Redmond. Alleviate flooding on this sole access road by replacing the existing culverts and raising the roadway to eliminate over-topping.
34	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRV MNT	Lower Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000			\$500,000	Improve drainage to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.
35	WLFL2 CITY SNOQ HOME ELEVATIONS	Lower Snoq	Agreement	\$0	\$0	\$1,118,000	\$0	\$350,000	\$1,468,000	\$0	\$0	\$0	\$0	\$0	\$1,468,000			\$1,468,000	City of Snoqualmie. Elevate several flood-prone homes in the areas around Walnut St and Northern St.
36	WLFL2 DUTCHMAN RD REVETMENT	Lower Snoq	FCD Const	\$48,593	\$5,823		\$42,770	\$57,230	\$100,000	\$200,000	\$500,000	\$0	\$0	\$0	\$800,000			\$805,823	Duval. Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of the Snoqualmie Valley downstream of Duval. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which would severely limit access to the downstream property owners during or following a flood event.
37	WLFL2 DUVALL SLOUGH 2017 IMPRV	Lower Snoq	Agreement	\$400,000	\$277,937		\$122,063		\$122,063	\$0	\$0	\$0	\$0	\$0	\$122,063			\$400,000	Duval. These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent losing approaches during flooding. A similar repair was done on Woodville-Duval Bridge No. 1136D.
38	WLFL2 FARM FLOOD TSK FORCE IMP	Lower Snoq	FCD Const	\$979,803	\$829,335		\$150,468		\$150,468	\$115,214	\$118,670	\$122,230	\$125,897	\$129,674	\$762,153			\$1,591,488	Carnation. This project provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads and elevation or flood proofing of agricultural structures.
39	WLFL2 FISH HATCHERY RD BR #61B REPAIR	Lower Snoq	Agreement	\$0	\$0	\$80,000	\$0		\$80,000	\$620,000	\$0	\$0	\$0	\$0	\$700,000			\$700,000	Duval. Strengthen the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to protect against major flood events that could erode the creek bed and riverbank profile to buffer the bridge against scour.
40	WLFL2 JOY REVETMENT	Lower Snoq	FCD Const	\$0	\$0	\$100,000	\$0		\$100,000	\$3,620,000	\$0	\$0	\$0	\$0	\$3,720,000			\$3,720,000	New capital construction project to protect SR 169 and critical public infrastructure in Renton.
41	WLFL2 L SNO 2019 BANK REPAIR	Lower Snoq	Agreement	\$2,200,000	\$1,111,942		\$1,088,058		\$1,088,058	\$0	\$0	\$0	\$0	\$0	\$1,088,058			\$2,200,000	Fall City. The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend MSE wall to prevent undercutting of the riverbank and roadway.
42	WLFL2 L SNO REP LOSS MITG TN	Lower Snoq	FCD Acqui/Elev	\$1,695,671	\$1,279,413		\$416,258		\$416,258	\$0	\$0	\$0	\$0	\$0	\$416,258			\$1,695,671	Carnation. Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
43	WLFL2 L SNO SCOUR REPAIR 2017	Lower Snoq	Agreement	\$150,000	\$142,411		\$7,589		\$7,589	\$0	\$0	\$0	\$0	\$0	\$7,589			\$150,000	Fall City. The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing. Bridge crosses the Snoqualmie River at Duval and is the city's primary route.
44	WLFL2 L SNO/ALDAIR CORRDROR PLN	Lower Snoq	FCD Const	\$7,365,814	\$7,019,214		\$346,600		\$346,600	\$0	\$0	\$0	\$0	\$0	\$346,600			\$7,365,814	Fall City. Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualmie. Projects reduce flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
45	WLFL2 LWR SNO RESDL FLD MITG TN	Lower Snoq	FCD Acqui/Elev	\$3,043,609	\$2,230,892	\$272,863	\$812,717		\$1,085,580	\$530,450	\$546,363	\$562,754	\$579,637	\$0	\$3,304,785			\$5,635,677	Carnation. This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
46	WLFL2 MUD CREEK SEDIMENT FACILITY	Lower Snoq	Agreement	\$0	\$0	\$432,000	\$0		\$432,000	\$0	\$0	\$0	\$0	\$0	\$432,000			\$432,000	Snoqualmie. Design and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site.
47	WLFL2 SE 19TH WAY REVETMENT	Lower Snoq	FCD Const	\$1,916,294	\$1,835,637		\$80,657		\$80,657	\$0	\$0	\$0	\$0	\$0	\$80,657			\$1,916,294	Fall City. Rebuild revetment to protect road access to high value agricultural operations and lands. Construction is complete.
48	WLFL2 SINEMA QUALE 2011 REPR	Lower Snoq	FCD Const	\$12,508,516	\$12,447,548		\$60,968	(\$60,968)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$12,447,548	Duval. Large capital project to repair 1000 linear feet of the Sinema Quale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoqualmie Valley Trail. Construction is complete.
49	WLFL2 SNOQUALMIE VALLEY FEAS	Lower Snoq	Agreement	\$0	\$0		\$0		\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$500,000			\$500,000	Duval. Regional flooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley would be the most cost effective to improve in the valley with chronic flood issues impacting over 25,000 daily drivers.
50	WLFL2 STOSSEL REVETMENT	Lower Snoq	FCD Const	\$0	\$0	\$50,000	\$0	\$50,000	\$100,000	\$150,000									

No.	Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expenditure	2020 Adopted	2019 Carryover	2020 Reallocation Request	2020 Revised	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	6-Year CIP Total (Including 2019 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
52	WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	FCD Const	\$10,778,068	\$10,644,758		\$133,310		\$133,310	\$0	\$0	\$0	\$0	\$0	\$133,310			\$10,778,068	Carnation. This project will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqualmie River channel threatens to undermine the Seattle Public Utilities water supply line at this location south of Duval. Construction is complete.
53	WLFL3 FREW LEVEE 2016 REPAIR	Tolt	FCD Const	\$360,360	\$168,880		\$191,480		\$191,480	\$0	\$0	\$0	\$0	\$0	\$191,480			\$360,360	Carnation. Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood. Construction is complete.
54	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	FCD Const	\$311,000	\$166,079		\$144,921		\$144,921	\$0	\$0	\$0	\$0	\$0	\$144,921			\$311,000	Carnation. Repair approximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. Missing face and toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Scheduled for 2018 construction.
55	WLFL3 HOLBERG 2019 REPAIR	Tolt	FCD Const	\$25,000	\$0	\$25,000	\$25,000		\$50,000	\$450,000	\$0	\$0	\$0	\$0	\$500,000			\$500,000	Carnation. Facility failure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to residences and property.
56	WLFL3 HOLBERG FEASIBILITY	Tolt	FCD Const	\$263,969	\$211,557	\$84,222	\$52,412	\$52,870	\$189,504	\$0	\$0	\$0	\$0	\$0	\$189,504			\$401,061	Carnation. Feasibility study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from the regulatory Channel Migration Zone as mapped in the March 2017 Draft Tolt River Channel Migration study
57	WLFL3 LOWER FREW LEVEE SETBACK	Tolt	FCD Const	\$478,664	\$215,777	\$100,000	\$262,887		\$362,887	\$700,000	\$850,000	\$700,000	\$14,650,000	\$100,000	\$17,362,887			\$17,578,664	Carnation. Capital Investment Strategy: Design, based on level of service analysis, the highest priority levee setback for flood risk reduction. Phase 2 construction estimated in CIS at \$14.5M-\$16.7M
58	WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	FCD Acq/Elev	\$744,475	\$529,475	(\$190,000)	\$215,000	\$825,000	\$850,000	\$0	\$0	\$0	\$0	\$0	\$850,000			\$1,379,475	Carnation. Acquisition between the Swiftwater development and the river for the future setback of the Upper Frew Levee
59	WLFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	FCD Const	\$311,000	\$143,033		\$167,967		\$167,967	\$0	\$0	\$0	\$0	\$0	\$167,967			\$311,000	Carnation. Damage is approximately 60 linear feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The damage is at the downstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger property. Construction complete.
60	WLFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acq/Elev	\$500,000	\$203	(\$449,797)	\$499,797	\$650,000	\$700,000	\$0	\$449,797	\$0	\$0	\$0	\$1,149,797			\$1,150,000	Carnation. Capital Investment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available.
61	WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acq/Elev	\$4,953,353	\$4,588,674		\$364,679	\$216,321	\$581,000	\$0	\$0	\$0	\$0	\$0	\$581,000			\$5,169,674	Carnation. This project will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community access road, ultimately completing project initiated 20 years ago by others. Approximately 20 homes removed from high hazard areas within and just upstream and downstream of San Souci neighborhood.
62	WLFL3 SAN SOUCI REACH IMPRVMTS	Tolt	FCD Const	\$160,000	\$12,722	\$25,000	\$147,278		\$172,278	\$90,000	\$700,000	\$700,000	\$825,000	\$0	\$2,487,278			\$2,500,000	Carnation. Capital Investment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souci neighborhood.
63	WLFL3 SEDIMENT MGMT FEAS	Tolt	FCD Const	\$402,805	\$113,706	\$38,553	\$289,099		\$327,652	\$15,648	\$0	\$0	\$0	\$0	\$343,300			\$457,006	Carnation. Capital Investment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment production estimates
64	WLFL3 SR 203 BR IMPRVMTS FEAS	Tolt	FCD Const	\$395,900	\$22,658		\$373,242		\$373,242	\$0	\$0	\$0	\$0	\$0	\$373,242			\$395,900	Carnation. Capital Investment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King County Parks parking area.
65	WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	FCD Const	\$46,909	\$46,909	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$46,909	Carnation. Flood damage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp.
66	WLFL3 TOLT CIS LONG TERM	Tolt	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$28,800,000	\$28,800,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
67	WLFL3 TOLT CIS MED TERM	Tolt	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,250,000	\$56,250,000	\$56,250,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
68	WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const	\$1,153,657	\$1,139,227		\$14,430		\$14,430	\$0	\$0	\$0	\$0	\$0	\$14,430			\$1,153,657	Carnation. The corridor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplain management actions. Scheduled for adoption in 2017.
69	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	FCD Const	\$413,484	\$344,315	\$278,651	\$69,169	\$64,489	\$412,309	\$31,031	\$0	\$0	\$0	\$0	\$443,340			\$787,655	Carnation. Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits
70	WLFL3 TOLT R MILE 1.1 SETBACK	Tolt	FCD Acq/Elev	\$4,306,106	\$4,214,727	(\$50,781)	\$91,379		\$40,598	\$850,781	\$0	\$0	\$0	\$0	\$891,379			\$5,106,106	Carnation. Acquisition funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the Tolt Corridor Plan.
71	WLFL3 TOLT R NATURAL AREA ACO	Tolt	FCD Acq/Elev	\$2,605,067	\$2,555,550	\$1,350,247	\$49,517	\$230,236	\$1,630,000	\$0	\$685,000	\$0	\$0	\$0	\$2,315,000			\$4,870,550	Carnation. Capital investment strategy: acquire at-risk homes from willing sellers.
72	WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	FCD Const	\$250,000	\$50,160		\$199,840	(\$190,000)	\$9,840	\$0	\$0	\$0	\$0	\$0	\$9,840			\$60,000	Carnation. Reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road.
73	WLFL3 TOLT R RD NE IMPROVEMENTS	Tolt	FCD Const	\$0	\$0		\$0		\$0	\$53,045	\$109,273	\$225,102	\$1,043,347	\$1,432,863	\$2,863,628			\$2,863,628	Carnation. Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road elevations as funds become available.
74	WLFL3 UPPER FREW LEVEE SETBACK	Tolt	FCD Const	\$0	\$0	\$50,000	\$0		\$50,000	\$159,090	\$175,099	\$1,200,000	\$1,500,000	\$14,800,000	\$17,884,189			\$17,884,189	Carnation. Capital Investment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge.
75	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acq/Elev	\$1,853,460	\$1,753,810		\$99,650		\$99,650	\$0	\$0	\$0	\$0	\$0	\$99,650			\$1,853,460	Fall City. Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along the Raging River in the Alpine Manor neighborhood.
76	WLFL4 RAGING MOUTH TO BR 2017 REPAIR	Raging	FCD Const	\$500,000	\$266,859		\$233,141		\$233,141	\$0	\$0	\$0	\$0	\$0	\$233,141			\$500,000	Fall City. Repair 150 linear feet of discontinuous damage and missing toe rock. The levee protects the landward area from flooding and serves as the road embankment for Dike Rd, an access road to the Fall City boat launch. The damaged levee section is immediately adjacent to the Twin Rivers golf course barn, which would experience greater flooding if the levee were breached. Scheduled for 2018 construction.
77	WLFL4 RAGING SCOUR REPAIR 2017	Raging	Agreement	\$80,000	\$25,062		\$54,938		\$54,938	\$0	\$0	\$0	\$0	\$0	\$54,938			\$80,000	Fall City. This bridge has a history of scour damage. One of the arch foundations is exposed. Repair scour mitigation measures to protect the footing. It serves only one house but is a designated King County Landmark.
78	Snoqualmie-South Fork Skykomish Subtotal			\$90,199,917	\$77,430,921	\$8,933,012	\$12,768,999	\$1,445,495	\$23,147,508	\$14,583,585	\$18,763,277	\$13,555,407	\$27,126,341	\$27,324,575	\$124,500,690			\$391,281,611	
79				\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	
80				\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	
81	WLFL5 ALLEN LK OUTLET IMPRVMT	Samamish	Agreement	\$0	\$0	\$400,000	\$0		\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$0	\$2,800,000			\$2,800,000	Samamish. To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options; study road-raising options; prepare Concept Development Report, analyze and select best options.
82	WLFL5 BAYLESS 2020 REPAIR	Samamish	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$200,000	\$0	\$0	\$0	\$0	\$250,000			\$250,000	The Bayless Revetment protects a sole access bridge to a residential community (about 70 homes) in the City of Issaquah. The facility was flanked and/or overtopped during the flood resulting in flooding of the low lying Sycamore neighborhood in the City of Issaquah behind the revetment. Continued erosion may result in damage to the bridge and ongoing flooding to the neighborhood.
83	WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Samamish	Agreement	\$0	\$0	\$400,000	\$0		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000			\$400,000	Samamish: This project will restore access to one river mile of high quality kokanee salmon habitat and reduce the risk of flooding by reducing sediment deposition.
84	WLFL5 IRWIN R 2020 REPAIR	Samamish	FCD Const	\$0	\$0		\$0	\$25,000	\$25,000	\$50,000	\$0	\$0	\$0	\$0	\$75,000			\$75,000	Further damage to the facility could cut off the sole access to one resident (via a private road and bridge over the creek).
85	WLFL5 JEROME 2020 REPAIR	Samamish	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$90,000	\$0	\$0	\$0	\$0	\$140,000			\$140,000	The Jerome Revetment protects three private residences in the City of Issaquah. Erosion of the revetment could result in loss of property and damage to private utilities. Loss of bank in front of middle property, 70 linear feet (LF) of erosion.
86	WLFL5 MOMB 2020 REPAIR	Samamish	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$60,000	\$0	\$0	\$0	\$0	\$110,000			\$110,000	Damage to the SE 156th St. road next flood season could cut off the sole access to a community of about 30 homes. More erosion at the downstream end of the facility may further destabilize the steep slope of the landslide and threaten downstream homeowners.
87	WLFL5 SAMMAMISH R BANK REPAIRS	Samamish	FCD Const	\$1,180,065	\$1,175,342		\$4,723	(\$4,723)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,175,342	Woodville. Repair and stabilize two short sections of the right riverbank near I-405 to protect the regional Sammamish River trail. Work is being coordinated with Parks. Full permitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to I-405 proximity. Construction is targeted for summer 2016 and will likely require detouring trail users to adjacent roads.
88	WLFL5 WILLOWMOOR FLDPLAIN REST	Samamish	FCD Const	\$3,520,977	\$3,223,377		\$297,600	(\$100,000)	\$197,600	\$0	\$0	\$0	\$0	\$0	\$197,600			\$3,420,977	Redmond. Willowmoor Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammamish while maintaining downstream Sammamish River flood control performance and enhancing habitat. The project will reconfigure the Sammamish transition zone to ensure ongoing flow conveyance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs. In June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including various design elements such as variable depth pools, cold water supplementation, and other elements itemized in the motion. Project costs will be updated when the 30% design is complete in December 2018.
89	WLFL6 BEAR CRK FLOOD EROSION REDMOND	Lk Wash Tribs	Agreement	\$0	\$0	\$550,000	\$0		\$550,000	\$550,000	\$0	\$0	\$0	\$0	\$1,100,000			\$1,100,000	Redmond: Protect Avondale Rd from an embankment that has been scoured by floodwaters from Bear Creek.
90	WLFL6 FACTORIA BLVD DRAINAGE	Lk Wash Tribs	Agreement	\$0	\$0	\$1,071,000	\$0		\$1,071,000	\$3,721,000	\$2,022,000	\$0	\$0	\$0	\$6,814,000			\$6,814,000	Bellevue. Reduce flooding during high-intensity storm events along Factoria Boulevard, a major transportation corridor within the City of Bellevue. These events have increased in frequency and are anticipated to be even more frequent in the future as a result of climate change.
91	WLFL6 ISSAQUAH TRIB FEAS	Lk Wash Tribs	Agreement	\$350,000	\$233,156		\$116,844		\$116,844	\$0	\$0	\$0	\$0	\$0	\$116,844			\$350,000	Issaquah. Prepare a feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis to identify potential solutions to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the bridge.
92	WLFL6 LOWER COAL CRK PH I	Lk Wash Tribs	Agreement	\$10,461,592	\$7,754,240	\$600,000	\$2,707,352		\$3,307,352	\$300,000	\$200,000	\$285,000	\$1,310,000	\$1,432,358	\$6,834,710			\$14,588,950	Bellevue. Increase conveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Washington. Implemented by City of Bellevue. Expenditure forecast to be updated based on current project schedule.
93	WLFL6 MAY VALLEY DRAINAGE IMPRVMT	Lk Wash Tribs	FCD Const	\$380,000	\$220,545	\$150,000	\$159,455		\$309,455	\$0	\$0	\$0	\$0	\$0	\$309,455			\$530,000	Newcastle. As recommended in the May Creek Basin Plan, two sediment trap facilities will be constructed on May Creek tributaries (Cabbage and Country Creeks) to limit sediment loading. FCD funding is for initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future sediment facility. 2020 funding is for permitting and design of a sediment facility.
94	WLFL7 BELMONDO 2020 REPAIR	Cedar	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,000			\$100,000	Critical facilities (Utilities, CRT, SR 169). Regional impact extends. Potential human injury from sudden change in conditions. Generally exposed bank - damage likely to occur next major high-flow event.
95	WLFL7 BRODELL 2020 REPAIR	Cedar	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$450,000	\$0	\$0	\$0	\$0	\$500,000			\$500,000	Residential land use and critical facilities (Utilities, CRT, SR 169). Regional impact extends. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing.
96	WLFL7 BYERS 2020 EMERGENCY ACTION	Cedar	FCD Const	\$0	\$0	\$25,000	\$0		\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000			\$25,000	Emergency action to prevent flooding of Byers Road, which is the sole access/egress for numerous residences along the Cedar River.
97	WLFL7 CDR PRE-CONST STRTGC ACO	Cedar	FCD Acq/Elev	\$4,330,532	\$3,986,708		\$343,824		\$343,824	\$0	\$0	\$0	\$0	\$1,200,000	\$1,543,824			\$5,530,532	Renton. This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent (Project J in the Capital Investment Strategy).
98	WLFL7 CEDAR CIS LONG TERM	Cedar	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,400,000	\$35,400,000	\$35,400,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
99	WLFL7 CEDAR CIS MED TERM	Cedar	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000,000	\$22,000,000	\$22,000,000	Renton. Elevate or acquire highest risk and repetitive loss properties from willing sellers. Elevate or purchase approximately 2 homes each year.
100	WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	Cedar	FCD Const	\$1,987,587	\$1,852,687		\$134,900		\$134,900	\$0	\$0	\$0	\$0	\$0	\$134,900			\$1,987,587	Renton. This six-year flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake Washington. Project complete. Closeout in 2020.
101	WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100,000	Renton. Improve Cedar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
102	WLFL7 CEDAR R TRAIL SITE 2	Cedar	FCD Const	\$0	\$0	\$300,000	\$0	\$878,000	\$1,178,000	\$0	\$0	\$0	\$0	\$0	\$1,178,000			\$1,178,000	This emergency action will armor up to 300 feet river bank and construct a buried revetment to stabilize the bank and prevent further erosion to the most damaged portion. This emergency action and the subsequent extension are upstream of the CRT 2 revetment in an area referred to as "Zone B."
103	WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar																	

No.	Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expenditure	2020 Adopted	2019 Carryover	2020 Reallocation Request	2020 Revised	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	6-Year CIP Total (Including 2019 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
106	WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Agreement	\$12,065,498	\$9,831,778	\$501,051	\$2,233,720		\$2,734,771	\$445,679	\$111,267	\$114,605	\$500,000	\$500,000	\$4,406,322			\$14,238,100	Renton. The project will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required maintenance action for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016.
107	WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement	\$3,750,000	\$0	\$1,250,000	\$3,750,000		\$5,000,000	\$0	\$0	\$0	\$0	\$0	\$5,000,000			\$5,000,000	Renton. Levee improvements necessary to satisfy levee certification engineering recommendations.
108	WLFL7 CEDAR RIVER TRAIL SITE 5 2020 REPAIR	Cedar	FCD Const	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$250,000	\$0	\$0	\$0	\$0	\$350,000			\$350,000	Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined numerous large trees, likely to fall into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility, near the upstream end.
110	WLFL7 CEDAR RIVER TRAIL SITE 2 ZONE D 2020 REPAIR	Cedar	FCD Const	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$143,000	\$0	\$0	\$0	\$0	\$193,000			\$193,000	Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing. This damage is to the CRT 2 revetment downstream of the emergency repair site listed separately; area is referred to as "Zone D".
111	WLFL7 DORRE DON AVULSION ANALYSIS	Cedar	FCD Const	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000			\$50,000	The main channel has avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE.
112	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqui/Elev	\$5,311,784	\$5,836,796		(\$525,012)	\$525,012	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,836,796	Renton. Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds design elements of the Herzman project and Riverbend.
113	WLFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	\$1,266,476	\$1,297,391	\$287,337	(\$30,915)	\$600,578	\$857,000	\$3,828,982	\$66,818	\$0	\$0	\$0	\$4,752,800			\$6,050,190	Renton. Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
114	WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	\$100,000	\$88,319		\$11,681		\$11,681	\$0	\$0	\$0	\$0	\$0	\$11,681			\$100,000	Issaquah. Construct intersection improvements which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaquah Hobart Road SE and SE May Valley Road.
115	WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	FCD Const	\$1,484,731	\$667,183	\$622,137	\$817,548		\$1,439,685	\$4,845,422	\$828,271	\$0	\$0	\$0	\$7,113,378			\$7,780,561	Renton. Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, construction of side channel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023.
116	WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	Agreement	\$400,000	\$1,390		\$398,610		\$398,610	\$120,000	\$0	\$0	\$0	\$0	\$518,610			\$520,000	Renton. Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantify economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 3) conduct cost-benefit analysis.
117	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const	\$1,898,466	\$202,956		\$1,695,510		\$1,695,510	\$681,352	\$235,089	\$4,540,762	\$1,631,720	\$0	\$8,784,434			\$8,987,390	Renton. Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; acquire 8 at risk properties Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or 2022.
118	WLFL7 MADSEN CR CULVERT 2017	Cedar	Agreement	\$1,100,000	\$426,520	\$1,470,000	\$673,480	\$756,000	\$2,899,480	\$0	\$0	\$0	\$0	\$0	\$2,899,480			\$3,326,000	Renton. To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert replacement and road-raising option; and analyze upstream and downstream retention/detention impacts.
119	WLFL7 MADSEN CR RENTON	Cedar	Agreement	\$635,000	\$62		\$634,938		\$634,938	\$0	\$0	\$0	\$0	\$0	\$634,938			\$635,000	Renton. Design and implement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year level flood protection for properties north of SR 169.
120	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	\$490,246	\$297,086		\$193,160	(\$75,000)	\$118,160	\$0	\$0	\$0	\$0	\$0	\$118,160			\$415,246	Renton. Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee. Pending results of landslide hazard analysis, FCD will consider options for a project.
122	WLFL7 TABOR-CROWALL REVETMENT	Cedar	FCD Const	\$0	\$0		\$0	\$100,000	\$100,000	\$300,000	\$0	\$0	\$0	\$0	\$400,000			\$400,000	Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank along 200 feet - damage likely to occur next major high-flow event.
123	WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Acqui/Elev	\$5,231,042	\$4,378,048		\$852,994		\$852,994	\$0	\$0	\$0	\$0	\$0	\$852,994			\$5,231,042	Renton. This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD portion of scope is complete.
124	WLFL7 SR 169 FEASIBILITY STUDY	Cedar	FCD Const	\$646,800	\$295,338	\$138,203	\$351,462	(\$200,000)	\$289,665	\$0	\$0	\$0	\$0	\$0	\$289,665			\$585,003	Renton. Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary design.
125	Cedar-Sammamish Subtotal			\$56,880,796	\$41,782,611	\$7,833,030	\$15,088,184	\$3,528,867	\$26,450,081	\$17,621,435	\$4,463,445	\$4,940,367	\$3,541,720	\$3,932,358	\$60,949,406			\$160,142,017	
126																			
127																			
128	WLFL8 BRISCOE LEVEE SETBACK	Green	Agreement	\$23,330,271	\$21,193,077		\$2,137,194		\$2,137,194	\$0	\$0	\$0	\$0	\$0	\$2,137,194			\$23,330,271	Kent. Floodwall construction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for property acquisition and riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out once the District's ILA with Kent expires in 2018.
129	WLFL8 BRPS CONTROL BLDG RPLCMT	Green	FCD Const	\$380,506	\$16,841	\$1,926,876	\$363,665	(\$300,000)	\$1,990,541	\$7,813,278	\$13,241,331	\$9,647	\$0	\$0	\$23,054,798			\$23,071,638	Renton. This project will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the control building, replacement of the trash rake system, and replacement of the screen spray system.
130	WLFL8 BRPS FISH PASS IMPRVMTS	Green	FCD Const	\$0	\$0		\$0	\$350,000	\$350,000	\$992,079	\$3,782,881	\$4,107,257	\$3,453,157	\$92,073	\$12,777,447			\$12,777,447	Renton. This project will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage systems.
131	WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	\$1,484,646	\$1,518,227	\$3,949,130	(\$33,581)		\$3,915,549	\$33,949	\$0	\$0	\$0	\$0	\$3,949,498			\$5,467,725	Renton. This project will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which run much more frequently than the other, larger pump engines.
132	WLFL8 BRPS SUPPORT SYS UPGRADES	Green	FCD Const	\$0	\$0	\$1,149	\$0		\$1,149	\$183,181	\$940,317	\$876,479	\$12,074	\$0	\$2,013,200			\$2,013,200	Renton. This project will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control panels, cooling systems, oilers and hoists.
133	WLFL8 COVINGTON CR BLACK DIAMOND	Green	Agreement	\$0	\$0	\$291,500	\$0		\$291,500	\$2,002,000	\$0	\$0	\$0	\$0	\$2,293,500			\$2,293,500	Black Diamond: Remove the three 6-foot diameter culverts where Lake Sawyer flows into Covington Creek and replace with a bridge to eliminate obstructions for water flow and allow passage for migrating salmon.
134	WLFL8 DESIMONE MAJOR REPAIR	Green	FCD Const	\$0	\$0	\$0	\$0	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000			\$80,000	Kent. This project will assess the damaged section of Desimone Levee between the two new floodwall segments, and recommend possible options for repair. Only the conditions assessment is proposed for funding.
135	WLFL8 FORT DENT 2020 REPAIR	Green	FCD Const	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,000			\$100,000	Damage increases vulnerability of the heavily used regional Green River trail and regional soccer complex (Starfire) and Tukwila Park. Erosion increases vulnerability to trail and soccer fields.
136	WLFL8 GALLIYKSTRA 2020 REPAIR	Green	FCD Const	\$200,000	\$90,891	\$207,314	\$109,109	\$0	\$316,423	\$1,750,783	\$0	\$0	\$0	\$0	\$2,067,206			\$2,158,097	Auburn. Complete Phase 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements.
137	WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqui/Elev	\$10,368,856	\$2,577,724		\$7,791,132		\$7,791,132	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$32,791,132			\$35,368,856	Tukwila. This project will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to construction schedules for those projects.
138	WLFL8 GREEN R IMPROVEMENT 2024	Green	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100,000	Auburn. Improve SE Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
139	WLFL8 GREEN R PL84-99 MITIGATN	Green	FCD Const	\$5,660,541	\$5,258,368		\$402,173		\$402,173	\$0	\$0	\$0	\$0	\$0	\$402,173			\$5,660,541	Auburn. This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program. The current mitigation effort is the Teufel project scheduled for 2018 construction.
140	WLFL8 GREEN SCOUR REPAIR 2017	Green	Agreement	\$150,000	\$47,524		\$102,476		\$102,476	\$0	\$0	\$0	\$0	\$0	\$102,476			\$150,000	Auburn. This project will address scour damage to the bridge, which is on the primary through route of the Green River Valley Rd. The bridge is also a King County landmark.
141	WLFL8 HSB BRED A SETBACK - KENT	Green	Agreement	\$4,758,953	\$930,509	\$2,431,377	\$3,828,444		\$6,259,821	\$8,381,110	\$43,709	\$0	\$0	\$0	\$14,684,640			\$15,615,149	Kent. New project to implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe Bend Levee at the Breda reach (RM 24.46-24.72) to a more stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain the 500-year (0.2% annual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.
142	WLFL8 HSB MCCOY REALIGNMENT	Green	Agreement	\$400,000	\$4,244	\$116,138	\$395,756		\$511,894	\$2,333,980	\$764,909	\$0	\$0	\$0	\$3,610,783			\$3,615,027	Kent. New project to implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a 'Minimally acceptable' rating by the USACE due to a slope deficiency at RM 24.3 (over steepened slopes from 1.3 to 1.7H:1V for 500 feet). The City of Kent constructed a secondary containment levee in this reach, set back from the river's edge, which is currently not part of the federal levee. The only remaining structure between the two levees is a Puget Sound Energy facility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 at about RM 24.3 and RM 24.4, respectively. River bed scour in this reach between 1986 and 2011 is 2.7 feet at RM 24.24. Funding of \$400,000 covers the cost of major modification to the federal levee so that the City of Kent's secondary containment levee can be incorporated into the federal levee project.
143	WLFL8 HSB NURSING HOME SETBACK	Green	FCD Const	\$0	\$0		\$0		\$0	\$100,000	\$2,000,000	\$500,000	\$0	\$0	\$2,600,000			\$2,600,000	Kent. New project to implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened and does not meet current engineering standards. The economic consequence of levee failure or overtopping to the lower Green River valley is extensive and could cause tens of millions of dollars in damage. This capital project area contains a 'Minimally Acceptable' deficiency by the US Army Corps of Engineers at RM 25. 5 (over steepened slopes from 1.25 to 1.7H:1V for 225 feet). The Horseshoe Bend Levee Certification Report calculated a Factor of Safety (FOS) value for rapid drawdown of 1.01 at RM 25.57 (Section F). This is barely above the minimum FOS (1.0) from the US Army Corps of Engineers manual.
144	WLFL8 INTERIM SWIF IMPLEMENTATION	Green	FCD Const	\$85,000	\$83,675		\$1,325		\$1,325	\$0	\$0	\$0	\$0	\$0	\$1,325			\$85,000	Kent. Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in the operating budget.
145	WLFL8 LONES LEVEE RESTORATION	Green	Agreement	\$0	\$0	\$1,850,000	\$0		\$1,850,000	\$0	\$0	\$0	\$0	\$0	\$1,850,000			\$1,850,000	Contribute the partial cost of a repair (\$500,000) to a \$5 million levee setback project. By relocating the levee, flood risks as well as future repair costs for the Flood Control District are reduced.
146	WLFL8 LOWER RUSSELL ACO KENT	Green	Agreement	\$1,023,656	\$1,123,668		(\$100,012)	\$100,012	\$0	\$0	\$0	\$0	\$0	\$0	\$1,123,668			\$1,123,668	Kent. Acquisitions by the City of Kent for the Lower Russell levee setback project.
147	WLFL8 LWR GRN R CORRIDOR PLANE/IS	Green	FCD Const	\$1,743,249	\$329,299		\$1,413,950		\$1,413,950	\$0	\$0	\$0	\$0	\$0	\$1,413,950			\$1,743,249	Kent. Lower Green River Corridor Planning and Environmental Impact Statement.
148	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	FCD Const	\$17,462,534	\$16,516,475	\$26,447,505	\$946,059	(\$14,468,661)	\$12,924,903	\$4,116,794	\$6,358,982	\$12,710	\$0	\$0	\$23,413,389			\$39,929,864	Kent. Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile 17.85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat. Increased expenditure authority to match interim SWIF adopted by Board of Supervisors.
149	WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Agreement	\$19,400,000	\$418,401		\$18,981,599		\$18,981,599	\$0	\$0	\$0	\$0	\$0	\$18,981,599			\$19,400,000	Kent. Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land rights.
150	WLFL8 NEWAUKUM CR FLOOD CONVEYANCE RESTORATION	Green	Agreement	\$0	\$0	\$65,000	\$0		\$65,000	\$0	\$0	\$0	\$0	\$0	\$65,000			\$65,000	Enumclaw. An undersized culvert causes flooding that could block a sole access road.
151	WLFL8 OLD JEFF'S FARM REVETMENT	Green	FCD Const	\$826,802	\$301,921	\$50,525	\$524,881	(\$500,000)	\$75,406	\$3,040,810	\$81,863	\$0	\$0	\$0	\$3,198,079			\$3,500,000	Auburn. This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. Alternative selection is pending; alternative 1 is assumed as a placeholder.
152	WLFL8 RUSSELL RD UPPER KENT	Green	Agreement	\$6,082,173	\$6,065,056		\$17,117		\$17,117	\$0	\$0	\$0	\$0	\$0	\$17,117			\$6,082,173	Kent. Project is to improve the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. These segments of the Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.
153	WLFL8 S 106TH ST DRAINAGE IMPVMT	Green	Agreement	\$0	\$0	\$451,000	\$0		\$451,000	\$0	\$0	\$0	\$0	\$0	\$451,000			\$451,000	Burien: Replace an existing damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding.
154	WLFL8 SIGNATURE POINTE REVETMENT	Green	Agreement	\$300,000	\$345,419	\$1,445,000	(\$45,419)		\$1,399,581	\$26,777,500	\$26,777,500	\$0	\$0	\$0	\$54,954,581			\$55,300,000	Kent. Project provides increased level of protection to 1.5 miles of Lower Green River Corridor. Alternative selected by Executive Committee.
155	WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	\$250,000	\$167,738		\$82,262		\$82,262	\$0	\$0	\$0	\$0	\$0	\$82,262			\$250,000	Kent. Repair of the recent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The revetment protects an adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road.
156	WLFL8 TUK REVETMNT 2019 REPAIR	Green	FCD Const	\$500,000	\$230,061		\$269,939	</											

No.	Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expenditure	2020 Adopted	2019 Carryover	2020 Reallocation Request	2020 Revised	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	6-Year CIP Total (Including 2019 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
157	WFL8 TUK-205 GUNTER FLOODWALL	Green	FCD Const	\$0	\$0	\$2,000,000	\$0		\$2,000,000	\$16,250,000	\$16,250,000	\$0	\$0	\$0	\$34,500,000			\$34,500,000	Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a facility to bring this levee segment in compliance with certification requirements for structural stability and raise the levee to roughly the 500 year event.
158	WFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const	\$0	\$0		\$0		\$0	\$0	\$1,500,000	\$300,000	\$0	\$0	\$1,800,000			\$1,800,000	Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwall and sloped embankment to protect adjacent businesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized during the project design phase.
159	WFL8 TUK-205 USACE GACO REPAIR	Green	Agreement	\$15,732,418	\$858,822		\$14,873,596		\$14,873,596	\$0	\$0	\$0	\$0	\$0	\$14,873,596			\$15,732,418	Tukwila. US Army Corps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted interim SWIF. The USACE will share remaining 2/3 of the cost; this allocation is the local share of 1/3 of total cost. Requires cooperation agreement.
160	WFLS PUGET WAY CULVERT	Green	Agreement	\$1,800,000	\$1,095,048		\$704,952		\$704,952	\$0	\$0	\$0	\$0	\$0	\$704,952			\$1,800,000	Seattle. This project will replace an aging and undersized creek culvert under Puget Way SW in Seattle.
161	WFLS S PARK DRAINAGE IMPROVEMENTS	Green	Agreement	\$1,000,000	\$1,637,071	\$9,075,000	(\$637,071)		\$8,437,929	\$7,030,000	\$0	\$0	\$0	\$0	\$15,467,929			\$17,105,000	Seattle. The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. The conveyance improvements will work in conjunction with the Pump Station.
162	WFLS SOUTH PARK PUMPSTATION	Green	Agreement	\$1,787,004	\$1,787,029	\$4,717,996	(\$25)		\$4,717,971	\$0	\$0	\$0	\$0	\$0	\$4,717,971			\$6,505,000	Seattle. Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project schedule. Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
163	Green-Duwamish Subtotal			\$114,726,609	\$62,597,089	\$55,025,510	\$52,129,521	(\$14,688,649)	\$92,466,382	\$85,855,463	\$76,741,492	\$10,806,094	\$8,565,231	\$5,092,073	\$279,526,735			\$342,123,824	
164																			
165																			
166	WFL9 212TH AVE SE @ SR 164 FLD IMPRVMT	White	Agreement	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$190,000	\$190,000			\$190,000	Enumclaw. Improve the drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way.
167	WFL9 212TH AVE SE MITIGATION	White	Agreement	\$0	\$0	\$29,000	\$0		\$29,000	\$36,000	\$0	\$0	\$0	\$0	\$65,000			\$65,000	Enumclaw. TBD
168	WFL9 ANDERSON PARK ACQUISITION	White	FCD Acqui/Elev	\$100,000	\$0		\$100,000		\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000			\$100,000	Enumclaw. Park is split by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
169	WFL9 BUTTE AVE FLOOD MITIGATION	White	Agreement	\$470,000	\$226,633		\$243,367	(\$243,367)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$226,633	Pacific. This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to flooding.
170	WFL9 COUNTYLINE TO A STREET	White	FCD Const	\$24,004,419	\$23,888,129		\$116,290		\$116,290	\$0	\$0	\$0	\$0	\$0	\$116,290			\$24,004,419	Tukwila. Reduces flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million content value), improves sediment storage and enhances habitat.
171	WFL9 RIGHT BANK LEVEE SETBACK	White	FCD Const	\$13,843,157	\$12,836,478	\$295,835	\$1,006,679	\$401,397	\$1,703,911	\$973,966	\$7,172,705	\$8,508,038	\$136,895	\$0	\$18,495,515			\$31,331,993	Pacific. Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River Estates neighborhood.
172	WFL9 SLIPPERY CREEK ACO	White	FCD Acqui/Elev	\$180,000	\$115,563		\$64,437		\$64,437	\$0	\$0	\$0	\$0	\$0	\$64,437			\$180,000	Greenwater. In mid-2018 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of Highway 410. Subsequent site visits identified multiple unpermitted structures and a well; additional funding necessary to complete demolition and asbestos abatement at a remote and inaccessible location.
173	WFL9 STREAM #10.0048 DS CULVERT	White	Agreement	\$0	\$0		\$0		\$0	\$150,000	\$1,500,000	\$0	\$0	\$0	\$1,650,000			\$1,650,000	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
174	WFL9 STREAM #10.0048 US CULVERT	White	Agreement	\$190,000	\$148,566	\$400,000	\$41,434		\$441,434	\$100,000	\$0	\$0	\$0	\$0	\$541,434			\$690,000	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
175	WFL9 STUCK R DR 2019 REPAIR	White	FCD Const	\$200,000	\$98,517	\$446,374	\$101,483		\$547,857	\$0	\$0	\$0	\$0	\$0	\$547,857			\$646,374	Auburn. Loss of facing rock along 130' of the lower half of the embankment. Some of the gravel fill under the rock has eroded as well, leaving a near-vertical face supporting the rock remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
176	White Subtotal			\$38,987,576	\$37,313,885	\$1,171,209	\$1,673,690	\$158,030	\$3,002,929	\$1,259,966	\$8,672,705	\$8,508,038	\$136,895	\$190,000	\$21,770,533			\$59,084,418	
177																			
178																			
179	WFLG COASTAL EROSION/FLOODING GRANTS		Grant	\$0	\$0	\$0	\$0		\$0	\$3,000,000	\$3,080,700	\$3,163,571	\$3,248,671	\$3,336,060	\$15,829,002			\$15,829,002	Focuses on mapped coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retrofitting or relocating infrastructure out of flood-prone areas to reduce risk.
180	WFLG CULVERT & FISH PASSAGE GRANTS		Grant	\$0	\$0	\$0	\$0		\$0	\$3,000,000	\$3,080,700	\$3,163,571	\$3,248,671	\$3,336,060	\$15,829,002			\$15,829,002	Reduces flooding and improves fish passage and water quality by replacing and/or removing culverts or other blockages to fish passage. This program will focus on accelerating replacement or removal of culverts that address both significant flood risks to critical infrastructure, and restore fish passage.
181	WFLG FLOOD REDUCTION GRANTS	Countywide	Grant	\$17,852,257	\$11,789,184	\$5,880,201	\$6,063,073		\$11,943,274	\$3,000,000	\$3,080,700	\$3,163,571	\$3,248,671	\$3,336,060	\$27,772,276			\$39,561,460	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
182	WFLG URBAN STREAMS GRANTS		Grant	\$0	\$0	\$0	\$0		\$0	\$3,000,000	\$3,080,700	\$3,163,571	\$3,248,671	\$3,336,060	\$15,829,002			\$15,829,002	Invests in urban flooding projects that reduce risks to people, property, and public infrastructure.
183	WFLG WRIA GRANTS	Countywide	Grant	\$32,303,948	\$24,468,355	\$9,620,344	\$7,835,593		\$17,455,937	\$9,879,132	\$10,144,880	\$10,417,777	\$10,698,016	\$10,985,792	\$69,581,534			\$94,049,889	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
184	WFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	\$2,929,222	\$3,052,862	\$330,232	(\$123,640)	\$981,708	\$1,188,300	\$890,956	\$834,056	\$892,524	\$804,751	\$585,512	\$5,196,098			\$8,248,960	Evaluation of capital projects to determine effectiveness and identify project design improvements.
185	WFLG SUBREGNL OPPRTNTY FUND	Countywide	Grant	\$55,311,186	\$38,775,925	\$6,091,017	\$16,535,261		\$22,626,278	\$6,255,428	\$6,414,885	\$6,568,517	\$6,720,084	\$6,869,230	\$55,454,422			\$94,230,347	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
186	WFLX CENTRAL CHARGES	Countywide	FCD Const	\$1,011,493	\$819,564	\$100,000	\$191,929		\$291,929	\$142,592	\$146,870	\$151,276	\$155,815	\$160,489	\$1,048,971			\$1,868,535	Central charges related to the FCD's capital fund.
187	WFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	\$500,000	\$3,354		\$496,646		\$496,646	\$0	\$0	\$0	\$0	\$0	\$496,646			\$500,000	Stockpile role for future flood damage repairs.
188	WFLX FLOOD EMERGENCY CONTNGNCY	Countywide	FCD Const	\$1,050,917	\$419,042		\$631,875	\$368,125	\$1,000,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$2,250,000			\$2,669,042	Contingency for emergency response actions during a flood event.
189	Countywide Subtotal			\$110,959,023	\$79,328,285	\$22,021,794	\$31,630,737	\$1,349,833	\$55,002,364	\$29,418,107	\$30,113,491	\$30,934,378	\$31,623,348	\$32,195,263	\$209,286,953			\$288,615,238	
190																			
191	Grand Total			\$411,753,921	\$298,462,792	\$94,984,555	\$113,291,131	(\$8,206,424)	\$200,069,262	\$148,738,557	\$138,754,410	\$68,744,284	\$70,993,537	\$68,734,269	\$696,034,318			#####	



Staff Report

Agenda Item:	6	Name:	Michelle Clark
Proposed No.:	FCD Resolution. 2020-11	Date:	May 20, 2020

FCD Resolution 2020-11: A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; adopting a revised 2020 budget, district oversight budget, capital budget, six-year capital improvement program for 2020-2025; and amending Resolution FCD2019-13.2 and Resolution FCD2020-05.1.

The purpose of the mid-year budget revision is to (1) carryover \$113.6 million (\$113.2 million in capital and \$275 thousand in maintenance and operations for policy work on the update to the Flood Hazard Management Plan) authority from 2019; (2) reallocate expenditure authority for technical adjustments, changes to scope and schedule for a total disappropriation amount of \$8.2 million; and (3) add new expenditure authority for flood response actions following the February 2020 Presidential Major Disaster flood event.

The District's 2019 capital expenditures total \$38 million. King County River and Floodplain Management (RFMS) managed expenditures were 55% of the 2019 capital expenditures and the remaining 45% of the 2019 capital expenditures are managed by the other service providers and grant funds. Figure 2 looks more closely at RFMS-managed construction expenditures, comparing planned vs. actual expenditures since the District's 2017 authorization of a new capital project strike team. Figure 3 shows RFMS- managed capital expenditures by year for comparison to previous years.

Figure 1: 2019 Actual Capital Expenditures by Category

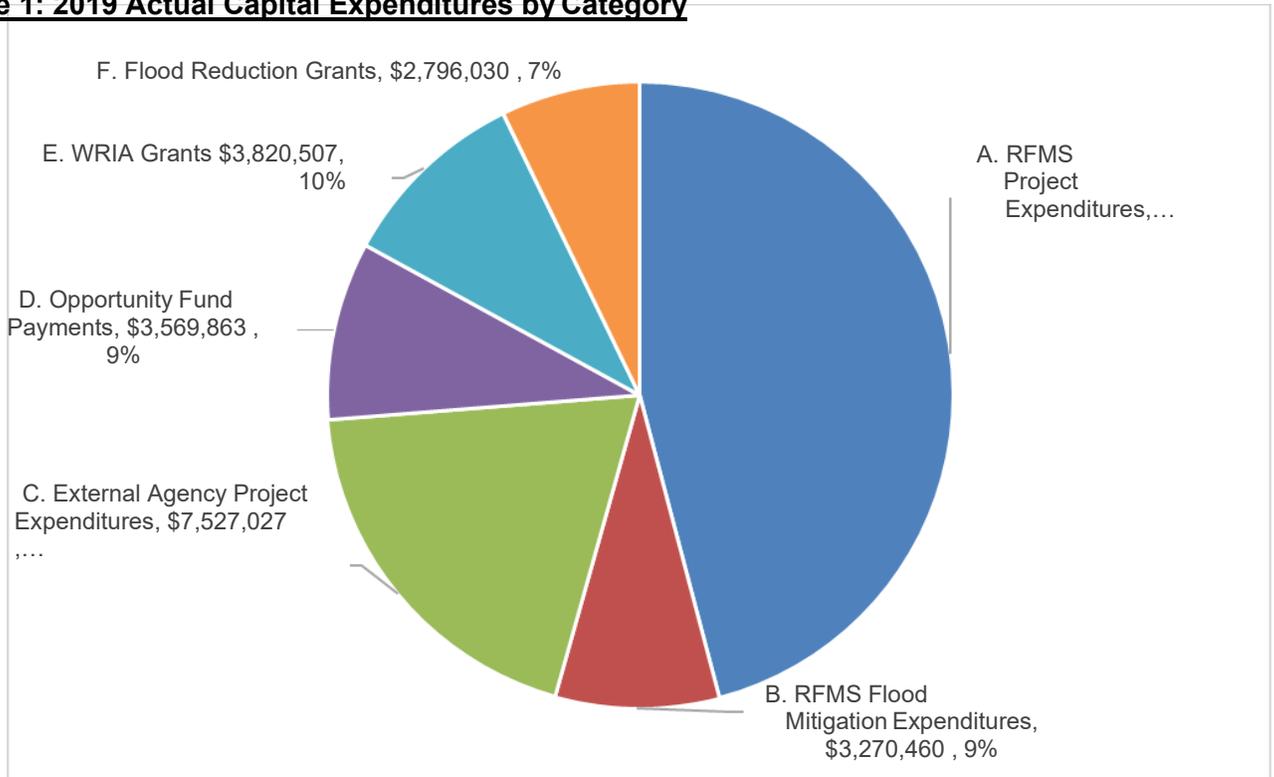
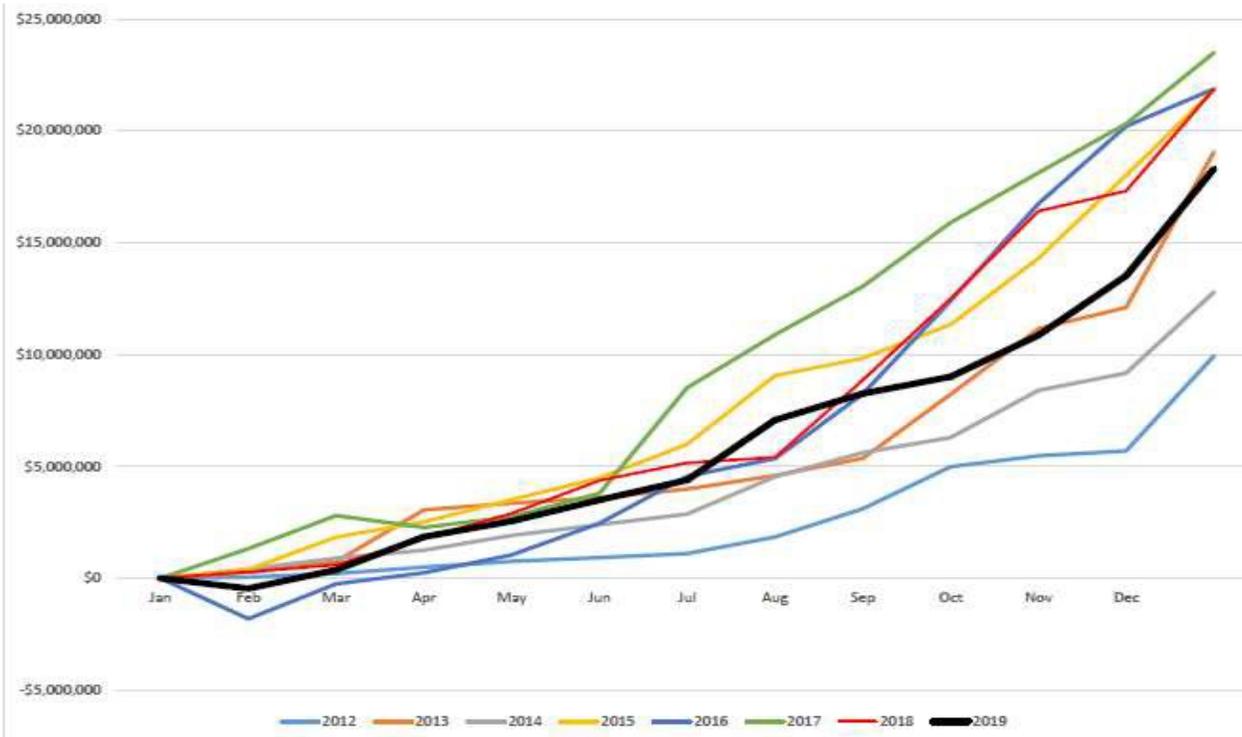


Figure 2: RFMS Managed Construction Expenditures: Planned vs Actuals

Year	“Baseline” Forecasted Expenditures (\$M)	Actual Expenditures for RFMS-Managed Projects (\$M)	Percent of Baseline
2017	25.5	23.8	93%
2018	24.9	21.94	88%
2019	15.0	17.8	119%
Total	65.4	63.5	97%

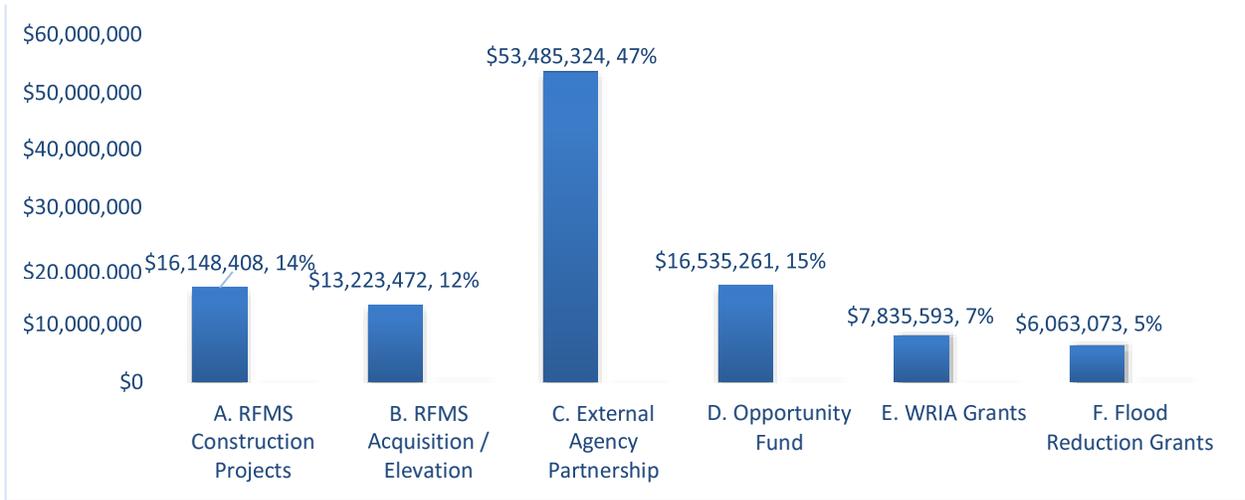
Figure 3: RFMS Capital Construction Expenditures by Year



Overview of 2019 Capital Carryover

The total capital carryover request for 2019 is \$113.3 million, an increase of \$6.3 million from the \$106.9 million carryover request for 2018. The 2019 carryover is distributed across the categories shown in Figure 4. Of the total \$113.2 million in carryover, 74% (\$83.9 million) is for grants and agreements managed by other agencies. RFMS- managed projects account for the remaining 26% (\$29.3 million) of the total carryover.

Figure 4: Capital Carryover from 2019 by Category



RFMS-Managed Construction Projects (Capital Construction and Repair)

This category totals \$16.1 million and is 13% of the capital carryover from 2019. This is less than half of the \$32.8M carried over in this category from 2018 to 2019, the improvement results from tighter budgeting in the 2020 budget process to reduce the potential for carryover. As noted above, expenditures in 2019 exceed the forecast at the beginning of the year.

RFMS-Managed Flood Mitigation (Acquisition and Elevation of At-Risk Structures)

Carryover for acquisition or elevation of at-risk structures totals approximately \$13.2 million (11% of the total). This is a reduction from the \$16.5 million carried over into 2019.

Other Agency Agreements

This category totals \$53.5 million (45% of the total), and includes projects implemented with other agencies through agreements with either the Flood Control District or King County. This is an increase from the \$30.4 million carried over into 2019.

Grant Programs (Opportunity Fund, WRIA grants, and Flood Reduction Grants)

The total carryover across these three grant programs is \$30.4 million (27% of the total), an increase from the \$27.1 million carryover request for 2018. The 2019 carryover includes \$16.5 million in the Opportunity Fund (Line 185), \$6.1 million for the Flood Reduction Grants (Line 183), and \$7.8 million for the WRIA grants (Line 181). Carryover in this category results in part from the lag between appropriation of funds in January followed by adoption of recommended projects by the Board, execution of agreements with grant recipients, implementation of work, and finally reimbursement of eligible expenditures. Opportunity Fund carryover results from jurisdictions choosing to defer or “bank” their Opportunity Fund allocation until it is sufficient to fund a project. For the 2019 Opportunity Fund allocation, just under \$900,000 was “banked” or deferred by the jurisdiction for use in a later year.

2020 Mid-Year Reallocation – 2019-2020 Flood Season Report

The 2019-2020 Flood Season Report (Report) contains the findings and recommendations from the post-flood assessment. The Report contains a number of recommendations for process improvements for the Flood Warning Center, as well as an assessment and recommendations for the 136 "problem sites" identified from the post-flood inspections of over 300 of the 511 flood reduction facilities maintained by the District. The Report provides the basis for the majority of the 2020 Mid-Year Reallocations including both proposed appropriations and disappropriations.

Additional Budget Authority of \$12.5 million

The request for an additional \$12.5 million of additional budget authority includes 18 new or rescope capital projects.

- **1 New Construction Completed in 2020 of \$878,000.** This repair of the Tukwila Revetment site can be completed in 2020 using an existing permit. (Yellow box on attached 2020 Reallocation Summary)
- **1 Scope Expansion of an Existing Project of \$600,578.** This scope expansion of the Herzman site project to address damage to two facilities adjacent to the existing project will shift construction from 2021 to 2022. (Orange box on attached 2020 Reallocation Summary)
- **1 USACE Emergency Assistance Plan for \$80,000.** Funding to conduct levee analysis following seepage and boils witnessed during flood event. Analysis will be shared with USACE. Emergency funding was approved by District Executive Director on April 6, 2020. (Light blue box on attached 2020 Reallocation Summary)
- **4 New Capital Projects for \$307,230.** Solutions for these sites are more complex and will take more than two years. Planning level estimates to conduct site evaluation and risk assessment for large damage sites. (Purple box on attached 2020 Reallocation Summary)
- **5 New Capital Projects – Site Assessments of \$300,000.** Site assessments are necessary to determine if a capital project are necessary as part of the 2021-2026 CIP. Planning level estimates to conduct site evaluation and risk assessment for medium damage sites. (Green box on attached 2020 Reallocation Summary)
- **6 New Capital Projects - Initiated in 2020 for 2021-2022 Construction of \$275,000.** Planning level estimates to conduct site evaluation and risk assessment for one small and five medium damage sites. (Blue box on attached 2020 Reallocation Summary)

Total Disappropriation of \$8.2 million

This net disappropriation results from \$12.5 million in requests for additional budget authority, along with \$20.7 million in disappropriations. The majority of the proposed disappropriations is \$14.5 million from the Lower Russell Road Project. This is not a change in the total project cost, by a shift of funds from 2020 to 2021 due to permit delays. Phase 1 of this project is scheduled to be completed in summer of 2020 and Phase 2 was advertised in April with work starting summer 2020.

In addition to the requested additional budget authority, the District directed WLR to identify existing work that could be deferred or modified to accommodate this new work, and to do so based on the District's adopted flood risk prioritization policy.

Several of the potential deferrals identified below prioritize the risk of physical damage to critical infrastructure over the risk of temporary inundation during flood events. While both situations impact residents who rely on the infrastructure, the consequence, severity, and cost differ. When floodwaters recede inundated infrastructure including roadways are usable again; however damaged roadways and infrastructure may be out of service for a longer duration, and the cost of repairing and rebuilding the flood protection infrastructure is likely to be less than the cost of having to rebuild roadways and any underlying infrastructure such as fiber optic cables.

The adopted 2020 budget assumes new authority for 5 FTEs that would make up a new Capital Project Team in Rivers. Due to the flood emergency in early February, quickly followed by the COVID-19 stay at home order, these positions have not yet been filled. The revised mid-year budget materials identify deferrals based on an assumption that this new team would not be hired. Table 1 also identifies work that could move forward with hiring of the new capital project team authorized in the 2020 budget. The identified deferrals could be further offset or mitigated if labor or other resources were to become available from other sources.

The disappropriations include \$1.375 million from potential deferrals of existing work under a scenario where the authorized new Capital Project Team is not hired. If the new team is hired there would be capacity to bring \$500,000 of this disappropriation back into the 2020 revised budget (for SR 169 on the Cedar and acceleration of Black River Pump Station Control Building project), as well as capacity to initiate the Sammamish Capital Investment Strategy (CIS).

Table 1: Potential 2020 Work Program Deferrals

Program/Project	Milestone	Deferral candidate	Capacity with New Capital Project Team?	Notes
Sammamish O&M Recommendations	Sammamish CIS Charter and PMP	Y	Y	Charter completed; defer initiating work until new project team can provide capacity. Key risks identified in report are 145th St bridge pier and flapgates in Redmond; these could be handled through jurisdictional coordination and/or line items in advance of the CIS if necessary.
WLFL7 SR 169 FEASIBILITY STUDY	FCD 30% design approval, authorization to initiate 60% design	Y	Y	SR 169 flooding mitigated somewhat by temporary culverts installed by Parks; tradeoff is defer transportation disruption in favor of projects that

Program/Project	Milestone	Deferral candidate	Capacity with New Capital Project Team?	Notes
				prevent infrastructure from being damaged at Belmondo and Brodell.
BRPS Control Building	Feasibility analysis	Y	Y	This adjustment is to the pace of the feasibility work rather than complete deferral of the work. The structural and seismic improvements to the pump station would continue to move ahead and the planning for the new control building would be decelerated.
Site Management Plan Program	Complete 12 new capital SMPs based on the prioritized list	Y		Reduce from 12 new capital project area SMPs to 0.
WLFL1 RIBARY CREEK	FCD approves charter	Y		Defer to accommodate Dutchman/Joy; tradeoff is to defer transportation disruption in favor of projects that prevent infrastructure from being damaged
WLFL3 TOLT R RD ELEVATION FEASIBILITY	FCD approves charter	Y		Defer to accommodate Dutchman/Joy; tradeoff is to defer transportation disruption in favor of projects that prevent infrastructure from being damaged
WLFL5 WILLOWMOOR FLDPLAIN REST	Complete cultural resources report	Y		Project paused for 3rd party review; deferral would assume no further action on this project in 2020.
WLFL7 CRT SITE A BANK	FCD Briefing	Y		Complete final report and defer feasibility study.

Program/Project	Milestone	Deferral candidate	Capacity with New Capital Project Team?	Notes
WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Feasibility Study	Y		Complete acquisitions that are underway; defer project initiation and planning.
WLFL7 MAPLEWOOD FEASIBILITY STUDY	FCD review of risk report / authorization to conduct feasibility study	Y		Report to be transmitted July 2020; defer feasibility analysis.
WLFL8 OLD JEFFS FARM REVETMENT	FCD 30% design approval, authorization to initiate 60% design	Y		Project paused; deferral would mean no further work in 2020.

The report also includes the list of 10 property owners that reached out to King County Water and Land Resources Division requesting a buyout. The mid-year reallocation includes funding necessary to complete the acquisition of the one property that has experienced repetitive flood insurance losses. District staff is continuing to work with RFMS to determine if any of the other buyout requests comply with existing District policy. The report also identifies problem sites not associated with existing public flood protection infrastructure. After consultation with District legal counsel, it has been determined that discussions of potentially amending or altering the District's Acquisition Policy are unable to occur at this time because of the governor's suspension of the Open Public Meetings Act.

2019 Flood Reduction Grant Supplemental Round

The 2020 Mid-Year Reallocation also includes the 2019 Flood Reduction Grant Committee's (Rich Crispo, former Newcastle mayor; Josh Baldi, Director, King County Water and Land Resources Division; and Michelle Clark, Executive Director, King County Flood Control District) recommendations for the Supplemental Round. As background, in the 2020 Adopted Budget, the Board of Supervisors included \$2.6 million to (1) "top off" or fully fund those 2019 Flood Reduction Grant recipients who would have received the entire amount of their eligible grant requests if the grant fund included sufficient funds **or** (2) fund new grant applicants that had not applied for the 2019 round applying for projects not applied for during the 2019 grant round. In early 2020, the District opened this supplemental grant round and received two qualifying applications. The first from Newport Villa for \$34,355 to address flooding remediation at Newport Villa, The second from Seattle Public Utilities for \$190,000 for the Lower Taylor Creek Restoration Project – Structure Deconstruction Phase.

The 2019 Flood Reduction Grant Committee meet and considered the two new applications

along with the 12 original applications meeting the new criteria. The committee recommendations fully funding the two new applications and "topping off" or fully funding the 11 of the original applicants. The committee also recommends partially funding King County Roads Services Division \$563,146 for the South Langston Road Drainage Improvement. (see attachment).

The 2020 Flood Reduction Grant round of funding is currently open and accepting applications until June 16, 2020.

Attachments

Proposed Resolution FCD 2020-11 Reallocation Budget

Proposed 2020 Reallocation Summary

Proposed 2020 Reallocation – Capital Carryover from 2019

Flood Reduction Grant Recommendations for 2019 Supplemental Round, April 2020

2020R Expenditure Chart

2020R Financial Plan

King County Flood Control District

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- Category A - New 2020 Construction
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- Category E5 - New Project - Corps Emergency Assistance Plan

No.	Title	Basin	2020 Reallocation Request	2020 Revised Budget	Reallocation Notes
1	WLF0 SF SKYKMSH REP LOSS MIT	SF Skykomish	\$3,184,903	\$3,170,000	Acquisition from willing sellers who contacted King County. Residential structures are in mapped channel migration zone and floodway. Of this amount, \$1.9 million is for the Riverside Ranch acquisition request approved by the FCD 1/27/2020. The remaining \$1.284 million is for three additional willing sellers with pending requests. This does not include the interested landowner listed in Appendix A of the 2019-2020 Flood Season Report.
4	WLF0 TIMBER LN EROSN BUYOUTS	SF Skykomish	\$358,200	\$433,000	Acquisition from willing seller who contacted King County. 2020 budget was limited to appraisal costs to minimize potential for carryover; now seeking budget authority for willing seller.
7	WLF1 428TH AVE SE BR FEASIBILITY	Upper Snoq	\$728	\$70	Project Closeout.
21	WLF1 REING RD RVTMNT 2016 REPAIR	Upper Snoq	(\$3,943,514)	\$400,000	No net change in total project cost. Construction shifted from 2020 to 2021 due to permitting issue.
22	WLF1 RIBARY CREEK	Upper Snoq	(\$150,000)	\$36,492	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
31	WLF1 UPR SNO RES FLD MITIGTN	Upper Snoq	(\$350,000)	\$2,570,872	Shift budget authority to Line 35, consolidate 8 home elevations managed by City of Snoqualmie in one budget line.
35	WLF2 CITY SNOQ HOME ELEVATIONS	Lower Snoq	\$350,000	\$1,468,000	Shift budget authority from Line 31, consolidate 8 home elevations managed by City of Snoqualmie in one budget line. Note that this budget line is mis-coded to the Lower Snoqualmie; this will be corrected in the 2021 budget materials.
36	WLF2 DUTCHMAN RD REVETMENT	Lower Snoq	\$57,230	\$100,000	2020 Flood Response - Initiate capital construction project to reduce risk to West Snoqualmie Valley Rd, a sole access road for homes and businesses downstream of Duvall. Bank eroded over a length of 200 feet in close proximity to West Snoqualmie River Road NE. Erosion threatens West Snoqualmie River Road NE which provides the sole access to residences and business on the west side of the Snoqualmie Valley downstream of Duvall. Continued erosion of the revetment could severely limit access to the downstream property owners during or following a flood event. Provide sufficient funding to conduct site evaluation and risk assessment for large damage site.
40	WLF2 JOY REVETMENT	Lower Snoq	\$100,000	\$100,000	2020 Flood Response - initiate new capital project to reduce risk to sole access road serving residential and commercial structures. Three separate damage locations were identified along this 860 LF-long King County owned and maintained river revetment. Each damage location is characterized as having significant slumping of the riverbank that has created near vertical bank conditions. The length of the damage locations range from 26 LF to 64 LF. Rock bank armoring and toe protection are notably absent at all five of these locations. Adjacent property is private road serving as sole access to residential and commercial structures. Agricultural land is not FPP. Provide sufficient funding to conduct site evaluation and risk assessment for large damage site.
48	WLF2 SINNEMA QUAALE 2011 REPR	Lower Snoq	(\$60,968)	\$0	Project Closeout.
50	WLF2 STOSSEL REVETMENT	Lower Snoq	\$50,000	\$100,000	2020 Flood Response - Initiate capital construction project to reduce risk to sole access roadway for two commercial structures. Bank eroded over a length of 80 feet, width of 10 feet and depth of 12 feet just upstream of 2018 repair; no rock is visible in this damaged section. Damage extends to log structure in 2018 repair. Adjacent land use in King County road serving as sole access to 2 commercial structures. Rapid erosion of embankment could result in changes of inundation patterns, potentially endangering residents. Agricultural land is not FPP. Provide sufficient funding to conduct site evaluation and risk assessment for site with greater than 100 feet of damage.
56	WLF3 HOLBERG FEASIBILITY	Tolt	\$52,870	\$189,504	Additional expenditure authority to complete analysis following landowner engagement and delayed field work due to access issues.
58	WLF3 LOWER TOLT RIVER ACQUISITION	Tolt	\$825,000	\$850,000	Additional expenditure authority for acquisition from willing seller based on 3/20/2020 appraisal. 2020 budget was limited to appraisal costs to minimize potential for carryover; now seeking budget authority for willing seller.
60	WLF3 RIO VISTA PROPERTY ACQ	Tolt	\$650,000	\$700,000	Additional expenditure authority for acquisition from willing seller in floodway and channel migration zone. FCD work program approval 2/10/2020. 2020 budget was limited to appraisal costs to minimize potential for carryover; now seeking budget authority for willing seller.
61	WLF3 SAN SOUCI NBRHOOD BUYOUT	Tolt	\$216,321	\$581,000	Additional expenditure authority for acquisition from willing seller in floodway and channel migration zone. FCD work program approval 2/5/2020.
69	WLF3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	\$64,489	\$412,309	Increase expenditure authority due to greater level of effort than originally budgeted to conduct the hydrologic and geomorphic analysis that will support future conditions modeling.
71	WLF3 TOLT R NATURAL AREA ACQ	Tolt	\$230,236	\$1,630,000	Updating expenditure authority to cover planned demolition and targeted acquisition based on updated cost estimates as the property has been in a foreclosure process for the past 2 years. This does not include the interested landowner listed in Appendix A of the 2019-2020 Flood Season Report.
72	WLF3 TOLT R RD ELEVATION FEASIBILITY	Tolt	(\$190,000)	\$9,840	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
82	WLF5 BAYLESS 2020 REPAIR	Samamish	\$50,000	\$50,000	2020 Flood Response - Risk Assessment. The Bayless Revetment protects a sole access bridge to a residential community (about 70 homes) in the City of Issaquah. Approximately 125 feet of bank erosion of the right bank revetment facility. The facility was flanked and/or overtopped during the flood resulting in flooding of the low lying Sycamore neighborhood in the City of Issaquah behind the revetment. Continued erosion at upstream end may result in damage to the bridge and ongoing flooding to the neighborhood. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
84	WLF5 IRWIN R 2020 REPAIR	Samamish	\$25,000	\$25,000	2020 Flood Response - initiate repair for 2021-2022 construction. Irwin R revetment damage - 5 feet of scour at downstream end of revetment facility with rock missing near a private driveway bridge (sole access) and near a major arterial, Issaquah Hobart Rd. Further damage to the facility could cut off the sole access to one resident (via a private road and bridge over the creek). Provide sufficient funding to conduct site evaluation and risk assessment for small damage site.
85	WLF5 JEROME 2020 REPAIR	Samamish	\$50,000	\$50,000	2020 Flood Response - initiate repair for 2021-2022 construction. The Jerome Revetment protects three private residences in the City of Issaquah. Erosion of the revetment could result in loss of property and damage to private utilities. Loss of bank in front of middle property. 70 linear feet (LF) of erosion. Provide sufficient funding to conduct site evaluation and risk assessment for site medium damage site.

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No.	Title	Basin	2020 Reallocation Request	2020 Revised Budget	Reallocation Notes
86	WLFL5 MOMB 2020 REPAIR	Sammamish	\$50,000	\$50,000	2020 Flood Response - Risk Assessment. 30 feet of erosion and 25 feet of slumped bank at the upstream end of the revetment facility. Undercutting may have cut into SE 156 St (a sole access road) bed prism. There is also a landslide immediately downstream of the facility on the same left bank that may pose a risk of channel migration to residential properties on the Right Bank. Damage to the SE 156th St. road next flood season could cut off the sole access to a community of about 30 homes. More erosion at the downstream end of the facility may further destabilize the steep slope of the landslide and threaten downstream homeowners. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
87	WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	(\$4,723)	\$0	Closeout
88	WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	(\$100,000)	\$197,600	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
94	WLFL7 BELMONDO 2020 REPAIR	Cedar	\$50,000	\$50,000	2020 Flood Response - initiate repair for 2021-2022 construction. Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks, and localized bank erosion (scallop). Damage is observed along approximately 50 feet of facility, near the upstream end. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank - damage likely to occur next major high-flow event. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
95	WLFL7 BRODELL 2020 REPAIR	Cedar	\$50,000	\$50,000	2020 Flood Response - initiate repair for 2021-2022 construction. Oversteepened downstream from houses, and generally overall. Facility is a mixture of riprap, concrete pieces, and in places concrete slabs laid against the bank. Approximately 10-foot tension crack observed near furthest downstream home where a slab has slid down into the river. Additional minor damage upstream of facility. Downstream portion of facility observed to be oversteepened, with undercut banks (approximately 200 feet in length). Residential land use and critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
102	WLFL7 CEDAR R TRAIL SITE 2	Cedar	\$878,000	\$1,178,000	2020 Flood Response - construct buried revetment upstream of emergency repair completed in February 2020. Construction in 2020 as part of the Riverbend project. Potential mitigation costs are not included at this time and will be included in the 2021 budget following further discussions with regulatory agencies.
103	WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar	\$50,000	\$50,000	2020 Flood Response - Risk Assessment. Erosion and scour have resulted in loss of upper ballast, dislodging of key logs, shearing of piles, and damage to hardware connections, to an Engineered Log Jam (ELJ #6) constructed as part of a previous District project within the Cedar Rapids reach. Undeveloped land in floodplain; recreational risk. Potential human injury from sudden change in conditions. Structure severely damaged and vulnerable - damage likely to occur next major high-flow event. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
104	WLFL7 CEDAR RES FLOOD MITIGATION	Cedar	\$674,000	\$674,000	Acquisition at-risk home in floodway and channel migration zone from willing seller. Home flooded 2-3 feet above finished floor elevation, isolated by flooding and access cut off. FEMA repetitive loss parcel with history of flood damage insurance claims. This parcel is included in Appendix A of the 2019-2020 Flood Season Report.
105	WLFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar	(\$150,000)	\$184,612	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
108	WLFL7 CEDAR RIVER TRAIL SITE 5 2020 REPAIR	Cedar	\$100,000	\$100,000	2020 Flood Response - Risk Assessment. Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined numerous large trees, likely to fall into the channel likely resulting in further damage of the bank. Damaged sections are observed within an approximately 350 feet of facility, near the upstream end. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
110	WLFL7 CEDAR RIVER TRAIL SITE 2 ZONE D 2020 REPAIR	Cedar	\$50,000	\$50,000	2020 Flood Response - initiate repair for 2021-2022 construction. This is the existing CRT2 revetment, immediately downstream of the emergency repair completed in February. This segment is referred to as Zone D. Erosion and scour have resulted in loss of toe rock and general oversteepening of bank, along approximately 100 feet of upstream end of facility. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing. Provide sufficient funding to conduct site evaluation and risk assessment for site with 25-75 feet of damage.
111	WLFL7 DORRE DON AVULSION ANALYSIS	Cedar	\$50,000	\$50,000	2020 Flood Response - Risk Assessment. The main channel has avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE. Residential land use and critical facilities (SE 184th St). Moderate impact extents (structures, roads). Potential human injury from sudden change in conditions. Generally exposed bank - damage likely to occur next major high-flow event. Provide sufficient funding to conduct site evaluation and risk assessment. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
112	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	\$525,012	\$0	The additional appropriation is requested to cover expenditures from a change in project accounting by KC Finance and not an actual increase in expenditures for the FCD. The accounting change concerns the transfer to Seattle of their portion of the Department of Ecology grant, resulting in both higher expenditures and an equivalent amount of higher revenue than initially budgeted. There is no net impact to the FCD from this accounting adjustment.
113	WLFL7 HERZMAN LEVEE SETBACK	Cedar	\$600,578	\$857,000	2020 Flood Response - expand scope of existing Herzman project to include repairs; construction shifts to 2022. New damage to Camp Freeman revetment in project area. Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks, and localized bank erosion likely due to tree recruitment. Damage is observed along approximately 390 feet of facility. Critical facilities (SE Jones Rd). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank - damage likely to occur next major high-flow event. With this additional scope construction of the Herzman project shifts from 2021 to 2022.

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- Category E5 - New Project - Corps Emergency Assistance Plan

No.	Title	Basin	2020 Reallocation Request	2020 Revised Budget	Reallocation Notes
118	WLFL7 MADSEN CR CULVERT 2017	Cedar	\$756,000	\$2,899,480	Additional budget for outfall control structure required for project approvals, consistent with FCD 60% design approval April 15 2020. 2020 construction by Roads Services Division.
120	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	(\$75,000)	\$118,160	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
122	WLFL7 TABOR-CROWALL REVETMENT	Cedar	\$100,000	\$100,000	2020 Flood Response - New capital construction project to protect SR 169 and critical public infrastructure in Renton. Entire facility is oversteepened. Varying amounts of rock protection on toe and face combined with areas of exposed soil. Critical facilities (Utilities, CRT, SR 169). Regional impact extends. Potential human injury from sudden change in conditions. Generally exposed bank along 200 feet - damage likely to occur next major high-flow event. Provide sufficient funding to conduct site evaluation and risk assessment for large damage site.
124	WLFL7 SR 169 FEASIBILITY STUDY	Cedar	(\$200,000)	\$289,665	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
129	WLFL8 BRPS CONTROL BLDG RPLCMT	Green	(\$300,000)	\$1,990,541	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
130	WLFL8 BRPS FISH PASS IMPRVMENTS	Green	\$350,000	\$350,000	Additional budget authority to expedite design and permitting of fish passage improvements consistent with capital strategy. Initiate fish passage outreach and early action fish passage items such as the fish counter.
134	WLFL8 DESIMONE MAJOR REPAIR	Green	\$80,000	\$80,000	Conduct levee conditions analysis following observation of levee seepage and boils during the February 2020 flood. Analysis will be provided to the Corps of Engineers as they evaluate options to address the problems observed during the flood. Study authorized under emergency contingency budget on 4/6/2020.
135	WLFL8 FORT DENT 2020 REPAIR	Green	\$50,000	\$50,000	2020 Flood Response - New repair to protect regional trail and recreational complex. Damage increases vulnerability of the heavily used regional Green River trail and regional soccer complex (Starfire) and Tukwila Park. Erosion increases vulnerability to trail and soccer fields. Pavement erosion along levee/revetment at fence and cracking of trails along a 78-foot segment. Cracking for approximately 28 feet, 5 feet wide and 10-12 deep. Second location had approximately 38 feet of erosion prior to flood event. Total eroded area is now approximately 127 feet in length, 16 feet wide and 11 feet deep. Provide sufficient funding to conduct site evaluation and risk assessment for medium damage site.
146	WLFL8 LOWER RUSSELL ACQ KENT	Green	\$100,012	\$0	Additional budget authority for the final remaining costs of FCD agreement with City of Kent.
148	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	(\$14,468,661)	\$12,924,903	No net change in total project cost. Phase 1 construction to be completed in summer 2020; Phase 2 advertised in April. Shifting portion of 2020 construction expenditures from 2020 to 2021.
151	WLFL8 OLD JEFF'S FARM REVETMENT	Green	(\$500,000)	\$75,406	Work deferred to respond to February 2020 Major Presidential Flood Disaster.
169	WLFL9 BUTTE AVE FLOOD MITIGATION	White	(\$243,367)	\$0	Butte avenue pump station project added to Pacific Right Bank project line (Line 171)
171	WLFL9 RIGHT BANK LEVEE SETBACK	White	\$401,397	\$1,703,911	Additional expenditure authority for Butte avenue pump station scope (Line 169), remaining \$158k for updated cost forecast for DEIS technical studies.
184	WLFLM EFFECTIVENESS MONITORING	Countywide	\$981,708	\$1,188,300	Approximately 1/2 of the increase corrects a budgeting error in the 2020 budget. Additional expenditure authority to shift baseline monitoring costs from individual projects to the central effectiveness monitoring project; individual project forecasts will be updated accordingly in the 2021 budget.
188	WLFLX FLOOD EMERGENCY CONTNGNCY	Countywide	\$368,125	\$1,000,000	Increase expenditure authority to \$1 million to create greater capacity to respond to flood emergencies.
191	Grand Total		(\$8,206,424)	\$39,137,665	

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King County Flood Control District

2020 Reallocation - Capital Carryover from 2019

May 11, 2020

No.	Title	Basin	2020 Carryover
1	WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	\$441,833
2	WLFL0 SKY W RVR DR FLOOD STUDY	SF Skykomish	\$78,381
3	WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	\$64,599
4	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	\$440,432
5	WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	\$3,070
6	WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	\$439,950
7	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	(\$658)
8	WLFL1 BENDIGO UPR SETBACK N BEND	Upper Snoq	\$49,876
9	WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	\$237,654
12	WLFL1 MF SNO CORRIDOR PLAN	Upper Snoq	\$165,919
14	WLFL1 NORMAN CREEK DS CULV	Upper Snoq	\$1,920
17	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	\$189,735
18	WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	\$818,850
21	WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	\$285,857
22	WLFL1 RIBARY CREEK	Upper Snoq	\$36,492
25	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	\$189,318
26	WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	\$810,839
27	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	\$3,750
28	WLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	\$108,717
31	WLFL1 UPR SNO RES FLD MITGTN	Upper Snoq	\$1,164,835
32	WLFL1 USACE PL 84-99 SF SNO	Upper Snoq	\$293,241
36	WLFL2 DUTCHMAN RD REPAIR	Lower Snoq	\$42,770
37	WLFL2 DUVALL SLOUGH 2017 IMPRV	Lower Snoq	\$122,063
38	WLFL2 FARM FLOOD TSK FORCE IMP	Lower Snoq	\$150,468
41	WLFL2 L SNO 2019 BANK REPAIR	Lower Snoq	\$1,088,058
42	WLFL2 L SNO REP LOSS MITGTION	Lower Snoq	\$416,258
43	WLFL2 L SNO SCOUR REPAIR 2017	Lower Snoq	\$7,589
44	WLFL2 L SNO/ALDAIR CORRDROR PLN	Lower Snoq	\$346,600
45	WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snoq	\$812,717
47	WLFL2 SE 19TH WAY REVETMENT	Lower Snoq	\$80,657
48	WLFL2 SINNEMA QUAAL 2011 REPR	Lower Snoq	\$60,968
51	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	\$137,105
52	WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	\$133,310
53	WLFL3 FREW LEVEE 2016 REPAIR	Tolt	\$191,480
54	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	\$144,921
55	WLFL3 HOLBERG 2019 REPAIR	Tolt	\$25,000
56	WLFL3 HOLBERG FEASIBILITY	Tolt	\$52,412
57	WLFL3 LOWER FREW LEVEE SETBACK	Tolt	\$262,887
58	WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	\$215,000
59	WLFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	\$167,967
60	WLFL3 RIO VISTA PROPERTY ACQ	Tolt	\$499,797
61	WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	\$364,679
62	WLFL3 SAN SOUCI REACH IMPRVMNTS	Tolt	\$147,278
63	WLFL3 SEDIMENT MGMT FEAS	Tolt	\$289,099

King County Flood Control District

2020 Reallocation - Capital Carryover from 2019

May 11, 2020

No.	Title	Basin	2020 Carryover
64	WLFL3 SR 203 BR IMPRVMENTS FEAS	Tolt	\$373,242
68	WLFL3 TOLT CORRIDOR PLAN	Tolt	\$14,430
69	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	\$69,169
70	WLFL3 TOLT R MILE 1.1 SETBACK	Tolt	\$91,379
71	WLFL3 TOLT R NATURAL AREA ACQ	Tolt	\$49,517
72	WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	\$199,840
75	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	\$99,650
76	WLFL4 RAGING MOUTH TO BR 2017 REPAIR	Raging	\$233,141
77	WLFL4 RAGING SCOUR REPAIR 2017	Raging	\$54,938
87	WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	\$4,723
88	WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	\$297,600
91	WLFL6 ISSAQUAH TRIB FEAS	Lk Wash Tribs	\$116,844
92	WLFL6 LOWER COAL CRK PH I	Lk Wash Tribs	\$2,707,352
93	WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	Lk Wash Tribs	\$159,455
97	WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	\$343,824
100	WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	Cedar	\$134,900
105	WLFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar	\$266,310
106	WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	\$2,233,720
107	WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	\$3,750,000
112	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	(\$525,012)
113	WLFL7 HERZMAN LEVEE SETBACK	Cedar	(\$30,915)
114	WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	\$11,681
115	WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	\$817,548
116	WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	\$398,610
117	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	\$1,695,510
118	WLFL7 MADSEN CR CULVERT 2017	Cedar	\$673,480
119	WLFL7 MADSEN CR RENTON	Cedar	\$634,938
120	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	\$193,160
123	WLFL7 RIVERBEND MHP ACQ	Cedar	\$852,994
124	WLFL7 SR 169 FEASIBILITY STUDY	Cedar	\$351,462
128	WLFL8 BRISCOE LEVEE SETBACK	Green	\$2,137,194
129	WLFL8 BRPS CONTROL BLDG RPLCMT	Green	\$363,665
131	WLFL8 BRPS HIGH-USE ENGINES	Green	(\$33,581)
136	WLFL8 GALLIDYKSTRA 2020 REPAIR	Green	\$109,109
137	WLFL8 GREEN PRE-CONST ACQ	Green	\$7,791,132
139	WLFL8 GREEN R PL84-99 MITIGATN	Green	\$402,173
140	WLFL8 GREEN SCOUR REPAIR 2017	Green	\$102,476
141	WLFL8 HSB BREDA SETBACK - KENT	Green	\$3,828,444
142	WLFL8 HSB MCCOY REALIGNMENT	Green	\$395,756
144	WLFL8 INTERIM SWIF IMPLEMENTATION	Green	\$1,325
146	WLFL8 LOWER RUSSELL ACQ KENT	Green	(\$100,012)
147	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	\$1,413,950
148	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	\$946,059
149	WLFL8 MILWAUKEE LEVEE #2-KENT	Green	\$18,981,599

King County Flood Control District

2020 Reallocation - Capital Carryover from 2019

May 11, 2020

No.	Title	Basin	2020 Carryover
151	WLFL8 OLD JEFF'S FARM REVETMENT	Green	\$524,881
152	WLFL8 RUSSELL RD UPPER KENT	Green	\$17,117
154	WLFL8 SIGNATURE POINTE REVETMENT	Green	(\$45,419)
155	WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	\$82,262
156	WLFL8 TUK REVETMNT 2019 REPAIR	Green	\$269,939
159	WLFL8 TUK-205 USACE GACO REPAIR	Green	\$14,873,596
160	WLFLS PUGET WAY CULVERT	Green	\$704,952
161	WLFLS S PARK DRAINAGE IMPROVEMENTS	Green	(\$637,071)
162	WLFLS SOUTH PARK PUMPSTATION	Green	(\$25)
168	WLFL9 ANDERSON PARK ACQUISITION	White	\$100,000
169	WLFL9 BUTTE AVE FLOOD MITIGATION	White	\$243,367
170	WLFL9 COUNTYLINE TO A STREET	White	\$116,290
171	WLFL9 RIGHT BANK LEVEE SETBACK	White	\$1,006,679
172	WLFL9 SLIPPERY CREEK ACQ	White	\$64,437
174	WLFL9 STREAM #10.0048 US CULVERT	White	\$41,434
175	WLFL9 STUCK R DR 2019 REPAIR	White	\$101,483
181	WLFLG FLOOD REDUCTION GRANTS	Countywide	\$6,063,073
183	WLFLG WRIA GRANTS	Countywide	\$7,835,593
184	WLFLM EFFECTIVENESS MONITORING	Countywide	(\$123,640)
185	WLFL0 SUBREGNL OPPRTNTY FUND	Countywide	\$16,535,261
186	WLFLX CENTRAL CHARGES	Countywide	\$191,929
187	WLFLX CONST MATERIALS STOCKPILE	Countywide	\$496,646
188	WLFLX FLOOD EMERGENCY CONTGNCY	Countywide	\$631,875
191	Grand Total		\$113,291,131

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Attachment A - Flood Reduction Grant Recommendations for 2019 Supplemental Round, April 20, 2020

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	PREVIOUS 2019 AWARD	OFFER
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	\$106,345
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 and North Creek.	Cole/Woods Creek/	1	\$ 400,000	\$ 1,027,199	\$ 275,000	\$125,000
Evergreen Estates Owners Association	<i>Evergreen Estates Stomwater 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	\$61,555
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	\$365,000
King Conservation District	<i>KCD Agricultural Drainage Project - Phase 6</i>	Develop and implement an expanded set of services facilitating increased landowner particiaption 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	\$141,799

Attachment A - Flood Reduction Grant Recommendations for 2019 Supplemental Round, April 20, 2020

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	PREVIOUS 2019 AWARD	OFFER
King County Road Services Division	<i>South Langston Road Drainage Improvement</i>	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	\$563,146
Kirkland, City of	<i>Finn Hill/Denny Creek Flood Reduction</i>	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 KCFCF 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	\$214,000
Newport Villa HOA	<i>Flooding Remediation at Newport Villa</i>	Install concrete flood wall along the unnamed creek on HOA property and install a monitoring system for two drains which may cause flooding if clogged.	Unnamed Creek/ Richards Creek basin/ WRIA 8	9	\$34,355	\$100,745	N/A	\$34,355
Normandy Park, City of	<i>Walker and Sequoia Creeks Culvert Replacement Design</i>	Design replacements for two 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.	Walker Crk. Watershed/ WRIA 9	5	\$500,000	\$10,000	\$200,000	\$300,000
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	\$75,000

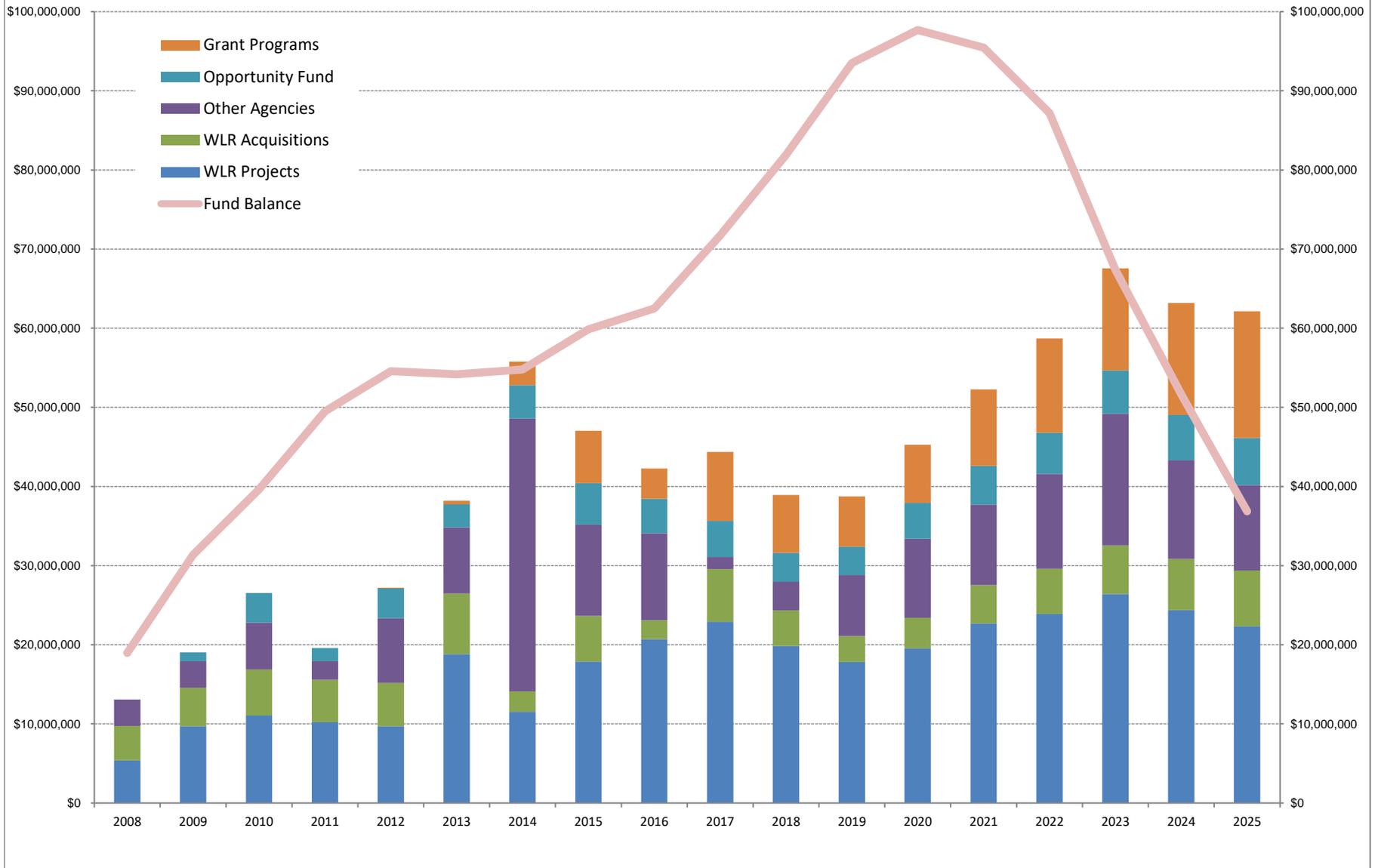
Attachment A - Flood Reduction Grant Recommendations for 2019 Supplemental Round, April 20, 2020

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	PREVIOUS 2019 AWARD	OFFER
SeaTac, City of	<i>S. 180th St. Flood Reduction</i>	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	\$125,000
Seattle Public Utilities	<i>Lower Taylor Creek Restoration Project - Structure Deconstruction Phase</i>	Deconstruction of five houses located in the Lower Taylor Creek floodplain and delta to Lake Washington, which is required prior to the creek and floodplain restoration which is part of the overall larger project. The unoccupied houses are a safety concern as well as obstructions for flooding, pushing flows onto neighboring private properties during high bank-topping rain events.	Taylor Creek/ Lake Washington Basin / WRIA 8	2	\$190,000	\$51,400	N/A	\$190,000
Shoreline, City of	<i>Storm Creek Erosion Management</i>	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	\$227,000

Attachment A - Flood Reduction Grant Recommendations for 2019 Supplemental Round, April 20, 2020

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	PREVIOUS 2019 AWARD	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	\$71,800
TOTALS					\$ 4,966,604	\$3,357,279	\$2,150,000	\$2,600,000

Actual and Forecasted Flood District Expenditures by Type



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King County Flood Control District

Flood Program Financial Plan: 2020 Revised Budget and 6-Year CIP

May 15, 2020

	2019 Actual	2020 Adopted	2020 Revised	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected
Beginning Balance	81,668,684	89,876,187	93,504,495	97,683,976	95,465,526	87,195,511	67,373,268	51,655,612
Revenue								
Flood District								
Flood District Levy ¹	57,896,370	58,962,538	58,241,513	59,205,616	60,109,081	60,949,558	61,732,624	62,467,927
Interest Earnings ²	2,243,703	1,855,726	2,568,871	2,683,695	2,622,747	2,395,543	1,850,962	1,419,147
Miscellaneous Revenue ³	267,338	300,000	270,000	270,000	270,000	270,000	270,000	270,000
King County								
Inter-County River Improvement ⁴	48,100	45,000	45,000	0	0	0	0	0
Grants ¹⁰	718,830	2,869,028	2,869,028	2,869,028	2,869,028	0	0	0
Miscellaneous Revenue ⁵	92,620	175,000	100,000	100,000	100,000	100,000	100,000	100,000
Total Revenue	61,266,961	64,207,292	64,094,412	65,128,340	65,970,856	63,715,101	63,953,586	64,257,074
Expenditure								
District Administration ⁶	(773,881)	(913,238)	(913,238)	(940,635)	(968,854)	(968,854)	(997,920)	(997,920)
Other District Expenditures								
Tax Refund								
Operating Expenditure	(9,905,721)	(13,464,210)	(13,739,210)	(14,151,386)	(14,575,928)	(15,013,206)	(15,463,602)	(15,927,510)
Capital Expenditure	(38,751,549)	(64,647,146)	(45,262,483)	(52,254,768)	(58,696,089)	(67,555,283)	(63,209,720)	(62,116,920)
Total Expenditure	(49,431,150)	(79,024,594)	(59,914,931)	(67,346,790)	(74,240,871)	(83,537,344)	(79,671,242)	(79,042,350)
Ending Fund Balance (Cash)	93,504,495	75,058,885	97,683,976	95,465,526	87,195,511	67,373,268	51,655,612	36,870,335
<i>Target Fund Balance</i>	<i>0</i>							
<i>Budgetary Carryover Reserves</i>	<i>(103,956,672)</i>	<i>(132,625,036)</i>	<i>(154,806,779)</i>	<i>(251,290,568)</i>	<i>(331,348,889)</i>	<i>(332,537,889)</i>	<i>(340,321,706)</i>	<i>(346,939,054)</i>
Ending Budgetary Fund Balance ⁹	(10,452,178)	(57,566,151)	(57,122,803)	(155,825,042)	(244,153,378)	(265,164,621)	(288,666,094)	(310,068,719)

Notes:

- ¹ Property tax forecast provided by the Office of Economic and Financial Analysis in March, 2018, less undercollection assumption of 1%.
- ² Interest earnings approximated using prior year actuals and increasing by 3% per year.
- ³ District miscellaneous revenue due to multiple sources such as state forest sales, private timber harvest tax, unrealized investments, leasehold excise taxes, and immaterial corrections from prior years. In 2017 this included \$4M from the sale
- ⁴ The ICRIF amount is based on the 1919 Inter-County Agreement for improvements to the White River, set to expire at the end of 2020.
- ⁵ Miscellaneous revenue due to multiple sources such as state forest sales, private timber harvest tax, rent from tenants of acquired real estate, and immaterial corrections from prior years. In 2017 this included the sale of the Rivers Edge
- ⁶ Costs based on contract established under FCD 2008-07 for District executive services, and inflated at 3% in succeeding years.
- ⁷ The capital expenditure is equal to the expenditure rate times the sum of the new capital appropriation and carryover. Rationale for the expenditure rates forecasted for A-E in the capital program is as follows:
 - A. Based on prior year experience and knowledge of existing staff capacity to implement construction projects implemented by WLR Division. The expenditure rate increases at the end of the six years as new appropriation decreases and carryover projects are completed.
 - B. Based on prior year experience for acquisitions and home elevations, where expenditure patterns are strongly influenced by factors such as landowner willingness. Rate shown here is similar to the expenditure rate for acquisition-focused funds such as King County's Conservation Futures Trust (CFT).
 - C. Based on increase from past expenditure rates as city projects move through the engineering design phase toward construction.
 - D-E. Based on prior year experience with expenditure rates for these capital grant programs, which have a 2-3 year minimum time lag between appropriation and expenditures due to funding allocation decision-making process, execution of agreements for awarded projects, and reimbursement of eligible expenditures during or following implementation by the grant recipient. While the Opportunity Fund does not require time for an allocation process, many jurisdictions choose to accrue funding over multiple years which limits the expenditure rate. Note that a constant expenditure rate results in increased expenditures as unspent allocations are carried over each year.
- ⁸ The Unreserved Fund Balance is the remaining balance less reserves described in resolution FCD2016-21.1 adopting a fund balance reserve policy. While the policy provides general guidance on types of reserves, it does not specify their
- ⁹ The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand the District's total budgetary commitment.
- ¹⁰ Grant revenue is assumed only for grants that have been awarded or where an award is likely and imminent.
- ¹¹ Total New Capital Appropriation corresponds to the "Grand Total" shown in each year on Attachment H.

Capital Expenditure Detail

	2019 Actual	2020 Adopted	2020 Revised	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2024 Projected
<i>FCD Projects New Appropriation</i>	739,781	(42,782,730)	(27,299,989)	(57,253,007)	(67,391,039)	(30,205,780)	(29,682,483)	(20,372,828)
<i>FCD Projects Carryover</i>	(32,817,275)	(16,038,747)	(16,148,408)	(23,896,618)	(58,427,730)	(101,913,203)	(105,695,186)	(111,009,689)
<i>Expenditure Rate</i>	56%	56%	45%	28%	19%	20%	18%	17%
A. RFMS Project Expenditures	(17,813,428)	(32,394,027)	(19,551,779)	(22,721,895)	(23,905,566)	(26,423,797)	(24,367,980)	(22,335,028)
<i>FCD Flood Mitigation New Appropriation</i>	(1,614,371)	(1,866,201)	(8,179,873)	(9,133,722)	(9,811,420)	(7,998,321)	(8,088,271)	(9,699,820)
<i>FCD Flood Mitigation Carryover</i>	(16,485,443)	(12,669,870)	(13,223,472)	(17,550,743)	(21,881,261)	(25,987,999)	(27,868,783)	(29,484,784)
<i>Expenditure Rate</i>	18%	50%	18%	18%	18%	18%	18%	18%
B. RFMS Flood Mitigation Expenditures	(3,270,460)	(7,328,035)	(3,852,602)	(4,803,204)	(5,704,683)	(6,117,538)	(6,472,270)	(7,053,229)
<i>Other Agency New Appropriation</i>	(30,066,843)	(28,744,062)	(29,706,707)	(54,217,268)	(32,669,385)	(899,605)	(2,810,000)	(7,462,358)
<i>Other Agency Carryover</i>	(30,413,688)	(51,408,451)	(53,485,324)	(73,208,987)	(117,232,155)	(137,909,417)	(122,151,939)	(112,465,745)
<i>Expenditure Rate</i>	13%	15%	12%	8%	8%	12%	10%	9%
C. External Agency Project Expenditures	(7,742,271)	(11,810,627)	(9,983,044)	(10,194,100)	(11,992,123)	(16,657,083)	(12,496,194)	(10,793,529)
<i>Opportunity Fund New Appropriation</i>	(5,889,245)	(6,091,017)	(6,091,017)	(6,255,428)	(6,414,885)	(6,568,517)	(6,720,084)	(6,869,230)
<i>Opportunity Fund Carryover</i>	(14,505,037)	(15,295,712)	(16,535,261)	(18,101,022)	(19,485,160)	(20,720,036)	(21,830,843)	(22,840,741)
<i>Expenditure Rate</i>	18%	25%	20%	20%	20%	20%	20%	20%
D. Opportunity Fund Payments	(3,569,863)	(5,346,682)	(4,525,256)	(4,871,290)	(5,180,009)	(5,457,711)	(5,710,185)	(5,941,994)
<i>Grants New Appropriation</i>	(4,684,168)	(15,500,545)	(15,500,545)	(21,879,132)	(22,467,680)	(23,072,061)	(23,692,699)	(24,330,033)
<i>Grants Carryover</i>	(6,971,932)	(13,955,019)	(13,898,666)	(22,049,408)	(34,264,261)	(44,818,234)	(54,991,138)	(64,520,747)
<i>Expenditure Rate</i>	55%	32%	25%	22%	21%	19%	18%	18%
E. Grant Payments	(6,355,527)	(7,767,774)	(7,349,803)	(9,664,279)	(11,913,708)	(12,899,156)	(14,163,091)	(15,993,140)
Capital Summary - All Expenditures A-F								
<i>Total New Capital Appropriation ¹¹</i>	(41,514,846)	(94,984,555)	(86,778,131)	(148,738,557)	(138,754,410)	(68,744,284)	(70,993,537)	(68,734,269)
<i>Total Carryover</i>	(101,193,375)	(109,367,799)	(113,291,131)	(154,806,779)	(251,290,568)	(331,348,889)	(332,537,889)	(340,321,706)
<i>Overall Expenditure Rate</i>	27%	32%	23%	17%	15%	17%	16%	15%
Total Capital Expenditure ⁷	(38,751,549)	(64,647,146)	(45,262,483)	(52,254,768)	(58,696,089)	(67,555,283)	(63,209,720)	(62,116,920)

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2020 Flood Response Actions and Potential WLR Work Program Adjustments Revised May 29, 2020

Executive Summary

The February flood event was recently declared a Presidential Major Disaster, King County's 13th federally-declared flood disaster since 1990. The combination of prolonged rainy conditions, high river flows, saturated soils and elevated pools behind dams caused some areas in King County to experience the most severe flooding in decades. King County opened and operated the Flood Warning Center around the clock for a full week. The magnitude and duration of the flooding across the County resulted in road closures, evacuations, damages to homes, and damage to flood control facilities across the county. Despite the severity and dangerous nature of the storm, no lives were lost due to flooding.

As soon as floodwaters began to recede, WLR's teams transitioned from flood response to post-flood inspections and assessments. WLR inspected 373 of the 511 levees and revetments around King County before COVID-19 safety requirements slowed field inspections, and the remaining inspections will be completed over the spring and summer. The inspections identified 136 problem sites that were then further evaluated using the District's flood risk and capital project prioritization policies to each site, along with a recommended response described in the *2019-2020 Flood Season Report* provided to the King County Flood Control District (District) on May 1st.

Following review and discussion of potential response actions with District and Supervisor staff, 18 new or amended projects have been recommended for addition to the District's 2020 revised capital budget through the mid-year budget reallocation. Categories of new projects and associated expenditures include not only urgent repairs planned for construction in the summer of 2020, but also initiation of design on high priority projects for 2021, and near-term risk assessments necessary to identify additional, potentially urgent repairs. These new projects were developed and prioritized based on the District's policies and evaluation criteria, focusing on the consequence, severity, and urgency to evaluate flood risk.

To accommodate the new body of work necessary to respond to the February flood disaster, there are difficult decisions about how to provide the resource capacity to respond to the flood. The District's existing work program has WLR resources at full capacity, with multiple critical public safety projects underway across the County. The District's work program does not include any unimportant work, meaning there are no obvious or easy deferrals. Each potential deferral has implications for public safety, and there are community expectations associated with each project. As directed by the Flood District, WLR has identified candidates for deferral using the District's policies and evaluation criteria noted above (consequence, severity, urgency). WLR staff also considered implementation factors identified in the District's policies, including readiness (e.g. landowner willingness and permit requirements) and opportunity (e.g. grant funding agreements). The Flood District has provided guidance to WLR on additional considerations for deferrals.

To minimize deferrals the District could increase capacity in two ways: by partnering with cities to develop and manage selected projects in incorporated areas, and by

2020 Flood Response Actions and Potential WLR Work Program Adjustments Revised May 29, 2020

proceeding with hiring the five-person capital project team that were previously authorized through the adopted District and County budgets. WLR has reviewed the five positions for consistency with COVID-19 orders and safety guidance and is ready to make offers for the first two of the five positions. Hiring is currently on hold based on District direction.

Even with this expanded capacity deferrals will be necessary if the District wishes to include the 18 new flood response actions in the 2020 work program. A key question arising during District Executive Committee briefing on the mid-year budget was “when would deferred projects be reinitiated?” For the purposes of the mid-year budget reallocation, “deferred” refers to the reduction of budget appropriation and associated staff capacity in 2020. The projects would not be cancelled; they remain on the CIP list. The Board’s 2021 annual budget process provides an opportunity to consider capital project prioritization, sequencing, 2021 budget appropriation, and planned expenditures for the outyears. Decisions about reallocation, deferrals and outyear sequencing rest with the Board through the budget adoption process. Risk assessments recommended in the current budget reallocation will have initial findings available to support Board consideration of the 2021 annual budget.

How were potential new 2020 flood response actions identified?

- The February 2020 flood disaster resulted in damages to flood protection infrastructure that threaten homes, critical public infrastructure, and sole access roadways in multiple locations. Flood facility damages and risks to public safety are described in the *2019-2020 Flood Season Report* transmitted May 1, 2020.
- Following post-flood inspection of 373 facilities, 136 problem sites were evaluated and potential new public safety projects, risk assessments, or initial design work were identified at high risk sites.
- This evaluation was based on application of the District’s adopted flood risk prioritization policy, considering consequences, severity and extent of impacts, and urgency.

What are the criteria used to determine when a "problem site" recommendation is to monitor it, a repair is necessary, a new project is necessary?

- The District’s flood risk policy includes criteria used to evaluate consequences (e.g. residential structures, critical public infrastructure, and whether these consequences are regional or local), severity (e.g. life safety vs an interruption to activity) and urgency (the probability that damage will occur in the next flood event).
- A multi-disciplinary work group reviewed maps and photos of the problem sites to ensure a common understanding of site conditions and the impacts of the flood event. The District’s evaluation criteria were applied to each site. Examples of sites recommended for continued monitoring are those where the consequences are life safety and critical public infrastructure are low, and/or where the likelihood of continued erosion or damage is low during the next flood event.
- Where there is greater urgency due to the probability of additional damage that would threaten life safety or critical public infrastructure such as fiberoptic lines, sole

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access roadways or strategic freight corridors, a repair or construction project is recommended.

- Repairs generally can be completed within the existing project footprint, do not require additional right-of-way, and replace rather than expand the function and level of service of the facility. While critical repairs can be completed at two sites in 2020 by relying on existing permits (Tukwila Trail and Cedar River Trail Site 2), other flood response actions would be initiated in 2020 so that repairs can be completed in 2021-2022.
- A new construction project is recommended when site conditions necessitate a larger footprint and/or a more complex permitting process. An example is the Tabor-Crowall revetment on the Cedar River next to SR 169; the erosion from the February 2020 flood resulted in a steep slope with very little room between the highway and the river. Additional erosion would only reduce the area available, which contributes to the urgency of the project. These more complex site conditions and the likely need to permit in-water work result in a larger and more complex project that is different from a more straightforward repair.
- A risk assessment is recommended when the risk of further damage is uncertain, site assessment and technical analyses are needed to better understand and define if a project is warranted. For example, channel avulsions on the Cedar mean that the river now occupies a former side channel, and analysis is needed to better define the risk to surrounding homes and infrastructure.
- Where there is risk that further damage could occur before a project is completed, Emergency Action Plans are developed as part of project initiation phase to proactively define thresholds for emergency actions such as road closures or emergency repairs.

How were potential project deferrals or work program adjustments identified?

- The District directed WLR to identify potential candidates for work that could be deferred or modified to accommodate this new work. WLR has identified candidates for deferral using the District's policies and evaluation criteria noted above (consequence, severity, urgency), coupled with assessment of status of the existing project (e.g., Is the project at a point in design where a temporary delay would not result in lost investment in design or permitting work or grant funds?).
- Gaco-Segale, Sammamish CIS, and SR 169 were removed from consideration based on direction from the District.
- The District's flood risk policy includes criteria used to evaluate consequences (e.g. residential structures, critical public infrastructure, and whether these consequences are regional or local), severity (e.g. life safety vs an interruption to activity) and urgency (the probability that damage will occur in the next flood event).
 - Some of the potential deferrals identified below (e.g Tolt River Road) prioritize the risk of physical damage to critical infrastructure over the risk of temporary inundation during flood events.
 - While both situations impact residents who rely on the infrastructure, the consequence, severity, and cost differ.
 - When floodwaters recede inundated infrastructure including roadways are usable again; however damaged roadways and infrastructure may be out of

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service for a longer duration, and the cost of repairing and rebuilding the flood protection infrastructure is likely to be less than the cost of having to rebuild roadways and any underlying infrastructure such as fiber optic cables.

- RFMS staff also considered implementation factors identified in the District's policies, including readiness (e.g. landowner willingness and permit requirements) and opportunity (e.g. grant funding agreements).
 - Work that has already been placed on "pause" by the District are considered candidates for deferral (e.g. Willowmoor and Old Jeffs Farm).
 - Projects that have an active design effort and/or active community engagement underway (e.g. Circle River Ranch, Middle Fork Snoqualmie CIS, Herzman) are not suggested as candidates, as they could not be efficiently deferred to accommodate new work.
 - CIP projects in closeout or scheduled for construction in 2020-2021 (e.g. Lower Russell, Stuck River Drive, Reinig Road, Holberg Repair, Galli/Dykstra) were removed from the list of deferral candidates.
 - CIP projects managed by other jurisdictions relying on RFMS support were not suggested for deferral (City of Snoqualmie Record Office project).

Could work program deferrals be minimized by contracting with cities as service providers?

- Two flood damage projects in the City of Issaquah could be managed by the City via an ILA with the FCD. Based on initial conversations with City staff, there is interest in managing these projects.
- Should the District wish to proceed with a feasibility study for the Maplewood project on the Cedar River, the project could be managed by the City of Renton via an ILA with the FCD and technical review from RFMS. The District has authorized WLR staff to contact Renton to determine whether they would be interested.
- The Ribary Creek capital project could be managed by the City of North Bend via an ILA with the FCD and technical review from RFMS. The District has authorized WLR staff to contact North Bend to determine whether they would be interested.

Has WLR reviewed all 18 new projects for potential to contract with cities for project delivery?

- There are two projects in the City of Tukwila. One is proceeding this summer with permits already held by King County; contracting out would not free up capacity. If directed by the District, WLR can approach Tukwila about the second project, but historically, they have not had capacity/interest to take on this role.

Could deferrals be avoided if the new project team was hired?

- The adopted 2020 budget assumes new authority for 5 FTEs that would make up a new Capital Project Team in RFMS. WLR has reviewed the five positions for consistency with COVID-19 orders and safety guidance and is ready to make offers for the first two of the five positions. The District has directed that the county should hold hiring of these positions. As directed, WLR has identified candidate deferrals based on an assumption that this new team would not be hired and has also

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identified work that could move forward with hiring of the new capital project team authorized in the 2020 budget (please see Table 1, below).

- From a capacity planning standpoint, Black River Pump Station, Willowmoor, and Old Jeff's deferrals could be restored with hire of the 5 FTEs. Overall, the hire of this team, which was planned and authorized to increase capacity and speed for capital project delivery, would better position the District to respond to flood events and any additional urgent repairs identified through the risk assessments requested in this mid-year budget.

When would deferred projects be reinitiated?

- For the purposes of the mid-year budget reallocation, "deferred" refers to the reduction of budget appropriation and associated staff capacity in 2020. The projects are not cancelled; they remain on the CIP list.
- While the proposed new work is collectively a multi-year effort that cannot be fully accommodated by six months of deferrals, the District re-prioritizes and re-sequences the work program each year during the annual budget process. During the annual budget adoption, the Board adopts the budget appropriation for the coming year and identifies planned expenditures for the outyears of the CIP. The 2021 budget process is getting underway now and the Flood District Interlocal Agreement requires Advisory Committee recommendations to be transmitted by the end of August.
- The District may also revisit work program priorities during the mid-year budget or a supplemental budget process as needed when risk or implementation factors change.
- Decisions about reallocation, deferrals and outyear sequencing rest with the Board through the budget adoption process. Risk assessments recommended in the current budget reallocation will have initial findings available to support Board consideration of the 2021 annual budget.

Do we inspect facilities after small earthquakes? Supervisor Lambert request to have facilities near Duvall inspected after multiple earthquakes over past 3 months. Have these facilities been inspected, if yes, are there any actions requested?

- These Duvall-area facilities were inspected in March 2020 prior to the COVID-19 stay-at-home order. Additional post-flood inspections of 84 facilities in the Snoqualmie basin that were delayed due to COVID-related orders and need for lower water levels are scheduled for this summer as part of low flow inspections. RFMS will report on the results of the remaining inspections through our monthly flood facility inspection report.
- Based on the threshold established in the King County Emergency Operations Plan, inspection of priority sites is triggered by a magnitude 5.5 or greater seismic event in the Puget Sound region. According to the University of Washington's Pacific Northwest Seismic Network the largest recent earthquake was a magnitude 3.4 event near Fall City. More information is available at:

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<https://pnsn.org/blog/2019/12/19/small-earthquakes-near-fall-city>

Table 1: Potential 2020 Work Program Adjustments: Transfer to Alternative Service Providers or Defer in 2020

Program/Project	Deferral (D) or Transfer (T)	Capacity with New Capital Project Team?	Notes
Issaquah Flood Damage Repairs (Jerome and Bayless Revetments)	T		Flood damage response actions could be implemented by the City of Issaquah through an ILA with the District.
WLFL1 RIBARY CREEK	T		Work has not been initiated at this time. Engineering design for culverts and stormwater improvements at SR 203 should be coordinated with future design of a levee setback in North Bend that is not currently funded. The District could consider asking North Bend to manage this work via an ILA, with technical review by RFMS.
WLFL7 MAPLEWOOD FEASIBILITY STUDY	T		Report to be transmitted to District in July 2020. The District could consider asking Renton to manage the feasibility study via an ILA, with technical review by RFMS.
Black River Pump Station Control Building	D	Y	The structural and seismic improvements to the pump station would continue to move ahead, as would construction of the high use engines, and outreach and planning for fish passage improvements. Planning for the control building would be deferred and the proposed schedule in the BRPS capital strategy would be revised to reflect the deferral. The BRPS capital strategy and implementation schedule are currently pending with the District for discussion with the Board.

WLFL5 WILLOWMOOR FLDPLAIN REST	D	Y	Project paused for FCD 3rd party review, scheduled for completion in November. Deferral would mean that the project would not proceed to design in 2020.
WLFL8 OLD JEFFS FARM REVETMENT	D	Y	Project paused by FCD as new alternative to relocate structures is considered by the landowner. Deferral would mean no RFMS work to move the project to 30% or 60% design in 2020.
WLFL3 TOLT R RD ELEVATION FEASIBILITY	D		Work has not been initiated at this time. Project would evaluate three sites that are temporarily inundated during floods to determine one site that could be elevated. Purpose is to reduce isolation of 54 upstream homes during flood events. Defer to accommodate Dutchman/Joy; tradeoff is to defer seasonal transportation disruption in favor of projects that prevent longer-term disruption and isolation if infrastructure is damaged.
WLFL7 CRT SITE A BANK	D		Complete final report in summer 2020 regarding risk of further riverbank damage that could threaten Cedar River Trail. There is no public infrastructure at this site. The report will be submitted to the District for direction whether to pursue a feasibility study. Feasibility study could be deferred.
WLFL7 LOWER JONES ROAD NEIGHBORHOOD	D		Project was a “near-term” action in the final Cedar CIS, and was initially recommended a medium-term action based on the flood risk analysis before being included as a near-term action in the adopted CIS. From a risk perspective, the river did not overtop the levee during the February flood event; impacts were limited to localized ponding due to stormwater drainage. Complete acquisitions that are underway with two willing landowners; capital project initiation and planning could be deferred.
Site Management Plan Program	D		Reduce from 12 new capital project area SMPs to 0.

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