Dunn moved. S2 as amended carried.

June 24, 2020 Replaces Attachments B, C, D, E, and H



Sponsor:

Dave Upthegrove

Proposed No.: FCD 2020-11.1

## 1 STRIKING AMENDMENT TO PROPOSED RESOLUTION FCD20-11.1

2 On page 1, beginning on Line 4, strike everything through page 3, line 62, and insert:

3 WHEREAS, the King County Flood Control Zone District ("the District") adopted its 4 2020 work program, budget, operating budget, capital budget, and six-year capital 5 improvement program in Resolution FCD2019-13.2, and

6 WHEREAS, the District adopted an amendment to its 2020 budget, operating
7 budget, capital budget, and six-year capital improvement programs in Resolution 20208 05.1; and

9 WHEREAS, the annual carry-forward budget resolution is necessary to provide 10 budget authority for unspent appropriations from the prior year and to reinstate contract 11 encumbrances, and

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

WHEREAS, the District desires to continue respond to the October 2019 flood
event and the February 2020 Presidential Major Disaster flood event by reallocating
\$12.5 million; and

WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the
proposed carry-forward amount and a supplemental budget on June 10, 2020, and

1

19	WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("the Board")
20	has determined that the flood control improvements adopted by this resolution generally
21	contribute to the objectives of the District's comprehensive plan of development, and
22	WHEREAS, the Board desires to adopt amendments to the District's 2020
23	budget, operating budget, capital budget, and six-year capital improvement program;
24	NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF
25	SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:
26	SECTION 1. The Board adopts a revised 2020 budget for the District, as set forth
27	in Attachment B to this resolution, titled "2020 Reallocation Budget June 22, 2020," and
28	amends Section 1 of FCD2020-05.1 accordingly.
29	SEC TION 2. The Board adopts a revised 2020 operating budget for the District,
30	as set forth in Attachment C to this resolution, titled "2020 Reallocation Operating
31	Budget June 22, 2020," and amends Section 1 of FCD2019-13.2 accordingly.
32	SECTION 3. The Board adopts a revised 2019 capital budget for the District,
33	consisting of the projects and expenditures Attachment D to this resolution, titled "2020
34	Reallocated Capital Budget June 22, 2020," and amends Section 1 of FCD2020-05.1
35	accordingly.
36	SECTION 4. The Board adopts a revised six-year capital improvement program
37	for the District, as set forth in Attachment E to this resolution, titled "2020-2025
38	Reallocated Six-Year CIP June 22, 2020," and amends Section 1 of FCD2020-05.1
39	accordingly.
40	SECTION 5. The Board adopts a revised 2020-2025 capital budget project list, as
38 39	Reallocated Six-Year CIP June 22, 2020," and amends Section 1 of FCD2020-05.2 accordingly.

Allocations + Carryover June 22, 2020," and amends Section 1 of FCD2020-05.1
accordingly.

44 <u>SECTION 6.</u> A. The Board authorizes the extension, enlargement, acquisition or
45 construction of improvements, as applicable, as set forth on Attachments B, C, D, E and
46 H of this resolution.

47 B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as 48 amended, serves as the comprehensive plan of development for flood control and 49 floodplain management, and has been prepared for the streams or watercourses upon 50 which the improvements will be enlarged, extended, acquired or constructed. The 51 improvements authorized herein generally contribute to the objectives of the Flood Plan. 52 C. For improvements that are to be constructed, preliminary engineering studies 53 and plans have been made, consisting of one or more of the following: the 2006 Flood 54 Plan, as amended, preliminary feasibility analyses, conceptual designs and design 55 manuals, and such plans and studies are on file with the county engineer. 56 D. Estimated costs for acquisitions and improvements together with supporting 57 data are set forth on Attachments B, C, D, E and H.

FCD Board - Blue folder J une 24, 2020

- 58 E. The improvements set forth in Attachments B, C, D, E and H are determined59 to benefit the county as a whole, as well as the zone.
- 60
- 61
- 62 EFFECT: Makes technical corrections, reinstates funding for the Sammamish
- 63 Capital Invest Strategy, the SR 169 Feasibility Study, and the Willowmoor
- 64 Floodplain Restoration capital projects in 2020.

## 2020 Reallocation Budget

## **Attachment B**

June 22, 2020

<b>-</b>	2020	2019	2020	2020
Program	Approved	Carryover	Reallocation	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	(5,918,248)	202,357,438
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	109,362,003	113,566,131	(5,918,248)	217,009,886
Projected Capital Reserves - Cash Fund Balance <sup>1</sup> Projected Capital Reserves - Budgetary Fund Balance <sup>2</sup>	93,504,495 (10,452,178)			97,062,854 (59,410,979)

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

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

### 2020 Reallocated Operating Budget

### Attachment C

June 22, 2020

	2020	2019	2020	2020	
	Approved	Carryover	Reallocation	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 by the capital fund for staff time loaned out to capital projects.

# 2020 Reallocated Capital Budget

Attachment D

June 22, 2020

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$8,786,248	\$5,722,617	\$9,970,641	\$0	\$24,479,506
Cedar River Basin	\$2,932,813	\$6,966,708	\$17,506,737	\$0	\$27,406,257
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	\$39,594,426	\$44,515,964	\$116,955,119	\$1,291,929	\$202,357,438

### 2020 - 2025 Reallocated Six-Year CIP Attachment E

June 22, 2020

	2020	2019	2020	2020						2020 - 2025
Name	Approved	Carryover	Reallocation	Revised	2021	2022	2023	2024	2025	Total
	<b>#0.000.040</b>	\$40 <b>7</b> 00 000	0 777 405	04 470 500	44 500 505	40 700 077	40 555 407	07 400 044	07 00 4 575	405 000 000
Snoqualmie River Basin	\$8,933,012	\$12,768,999	2,777,495	24,479,506	14,583,585	18,763,277	13,555,407	27,126,341	27,324,575	125,832,690
Cedar River Basin	\$7,833,030	\$15,088,184	4,485,043	27,406,257	17,621,435	4,463,445	4,940,367	3,541,720	3,932,358	61,905,582
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	12,879,132	13,225,580	13,581,348	13,946,687	14,321,852	97,353,810
WRIA Grants	\$0	\$0	-	-	-	-	-	-	-	-
Total	\$94,984,555	113,291,131	(5,918,248)	202,357,438	139,738,557	129,512,310	59,253,571	61,247,524	58,726,089	650,835,488

#### 2020 - 2025 Six-Year CIP Project Allocations + Carryover Attachment H

June 22, 2020

#### Capital Investment Strategy Project Grant/External Revenue Awarded Cost Share Contribution to Others New Project - 2019 Revised ated scope based on FCD an

												Updated scope i	based on FCD app	roved charter					
															6-Year CIP				Comments
				2019 Inception to Date	2019 Inception to Date	2020	2019	2020 Reallocation	2020	2021	2022	2023	2024	2025	Total (Including 2019	CIS	CIS	Project Life	
No.	Title	Basin	Type of project	Budget	Expendiure	Adopted	Carryover	Request	Revised	Projected	Projected	Projected	Projected	Projected	Carryover)	Year 7-10	10+ Year	Total	Baring. This project wi
1	WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	FCD Acqu/Elev	\$1,145,404	\$703,571	(\$456,736)	\$441,833	\$3,634,903	\$3,620,000	\$456,736	\$0	\$0	\$0	\$115,927	\$4,192,663			\$4,896,235	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 proje homes and property w
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			\$150.001	Skykomish. Approxima damage facility.
						(\$365 632)		<b>6</b> 050 000			0705.000			++					Skykomish. This proje
4	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqu/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	inundation in some pla Skykomish. Project wi
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	Team. Skykomish. Revetmer
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	LF (needs verification)
7	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	\$309,028	\$309,686		(\$658)	\$728	\$70	\$0	\$0	\$0	\$0	\$0	\$70			\$309,756	North Bend. Reduce n Road to reduce the free
																			North Bend. Cost-shar roadways. Project wor
8	WLFL1 BENDIGO UPR SETBACK N BEND	Upper Snoq	Agreement	\$50,000	\$124		\$49,876		\$49,876	\$0	\$0	\$0	\$0	\$4,200,000	\$4,249,876			\$4,250,000	application for the rem
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 proje South Fork Snoqualm
10	WLFL1 MF RESIDENTIAL FLD MTGTN	Upper Snog	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 Strategy)
	WLFL1 MF SNO CORRIDOR IMP	Upper Snog	FCD Const	\$954	\$954		\$0		\$0	\$1,162,249	\$1,196,980	\$1,232,889	\$377,890	\$0	\$3,970,008			\$3,970,962	North Bend. Placehold
12	WLFL1 MF SNO CORRIDOR PLAN WLFL1 MF SNO PL84-99	Upper Snog Upper Snog	FCD Const FCD Const	\$1,824,912 \$0	\$1,658,993 \$0	\$27,585 \$75,000	\$165,919 \$0		\$193,504 \$75,000	\$0 \$75,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$193,504 \$150,000				North Bend. Middle Fo North Bend. Upgrade
																			North Bend. Replace t new culvert will reduce
					<b>6</b> 700.000		<b>6</b> 4 000		<b>*</b> + + + + + + + + + + + + + + + + + + +	•		•••		•	<b>A</b> 4 000				Fork Snoqualmie Rive
	WLFL1 NORMAN CREEK DS CULV WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq Upper Snoq	Agreement Agreement	\$724,000 \$0	\$722,080 \$0		\$1,920 \$0		\$1,920 \$0	\$0 \$0	\$0 \$0	\$0 \$350,000	\$0 \$750,000	\$0 \$0	\$1,920 \$1,100,000				flood water once the N North Bend. Improve S
16	WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Agreement	\$177,742	\$177,742		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$177,742	North Bend. The North bridge safe and reliable
				\$200,000			\$189,735		\$189,735	\$0	¢0	\$0	\$0	\$0	\$189,735				North Bend. Initiate fe
17	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	\$200,000	\$10,265		\$189,735		\$189,735	\$U	\$U	\$0	\$0	\$U	\$189,735			\$200,000	alternative risk mitigat Snoqualmie. Repair de
																			Snoqualmie stormwate City's planned "Riverw
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	
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 levee in place / setbac
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 le North Bend. Repair the
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	Construction is anticip
	WLFL1 RIBARY CREEK	Upper Snog	FCD Const	\$36,492	\$0	\$150,000	\$36,492		\$186,492	\$450,000	\$2,338,618	\$3,223,883	\$0	\$0	\$6,198,993			\$6,198,993	North Bend. Address f
	WLFL1 SF CIS LONG TERM WLFL1 SF CIS MED TERM	Upper Snoq Upper Snoq	FCD Const FCD Const	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$47,200,000	\$57,100,000		Implement projects ide Implement projects ide
														\$0	\$1,948,844			\$2,147,526	North Bend. Six levee
	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$388,000	\$198,682		\$189,318		\$189,318	\$727,790	\$1,031,736	\$0	\$0						North Bend. Total brea
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	erosion could threaten North Bend. Between
																			feet of river bank. Actu failure. Failure of this f
27	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snog	FCD Const	\$51,090	\$47,340	\$300,000	\$3,750		\$303,750	\$360,910	\$0	\$0	\$0	\$0	\$664,660			\$712,000	Tallule. Failule of this i
																			North Bend. Repair ap View Levee is a relativ
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	scheduled for 2018 co
																			North Bend. Placehold conveyance and reduc
29	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	evaluated in the SF Si North Bend. Prepare a
30	WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000			\$150,000	current bridge does no
																			Snoqualmie. This proje channel migration dan
31	WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/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	Riverwalk project. North Bend. Ensure el
32	WLFL1 USACE PL 84-99 SF SNO WLFL2 264TH AVE NE AT SR 202 FLD IMPRVMNT	Upper Snoq Lower Snoq	FCD Const Agreement	\$333,377	\$40,136		\$293,241 \$0		\$293,241 \$0	\$352,868 \$0	\$363,454 \$0	\$0 \$0	\$0	\$0 \$540,000	\$1,009,563 \$540,000			\$1,049,699 \$540.000	future assistance from
34	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMNT	Lower Snoq	Agreement	\$0 \$0			\$0 \$0		\$0	\$0 \$0	\$0 \$0	\$0		\$500,000	\$500,000			\$500,000	Improve drainage to a
35	WLFL2 CITY SNOQ HOME ELEVATIONS	Lower Snoq	Agreement	\$0		\$1,118,000	\$0	\$350,000	\$1,468,000	\$0	\$0	\$0	\$0	\$0	\$1,468,000			\$1,468,000	City of Snoqualmie: El Duvall. Repair approxi
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	the Snoqualmie Valley would severely limit ac
	WERE 2 DUVALE SLOUGH 2017 IMPRV							ψ31,230											Duvall. These two brid
37		Lower Snoq	Agreement	\$400,000	\$277,937		\$122,063		\$122,063	\$0	\$0	\$0		\$0	\$122,063				loosing approaches du Carnation. This project
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	withstand the impacts Duvall. Strengthen the
	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				protect it against majo
40	WLFL2 JOY 2020 REPAIR	Lower Snoq	FCD Const				\$0	\$100,000	\$100,000	\$3,620,000		\$0	\$0	\$0	\$3,720,000			\$3,720,000	New capital construct Fall City. The river is s
	WLFL2 L SNO 2019 BANK REPAIR WLFL2 L SNO REP LOSS MITGTION	Lower Snog Lower Snog	Agreement FCD Acqu/Elev	\$2,200,000 \$1,695,671	\$1,111,942 \$1,279,413		\$1,088,058 \$416,258		\$1,088,058 \$416,258	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,088,058 \$416,258				MSE wall to prevent u Carnation. Funding as
																			Fall City. The foundation
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	Bridge crosses the Sn Fall City. Cost-shared
44	WLFL2 L SNO/ALDAIR CORRDOR PLN	Lower Snog	FCD Const	\$7,365,814	\$7,019,214		\$346,600		\$346,600	\$0	\$0	\$0	\$0	\$0	\$346,600			\$7,365,814	Projects reduce flood
44	WEI 12 E SNO/AEDAIK COKKDOK PEN	LOWER STICK	T CD Const	\$7,303,614	\$7,013,214		\$340,000		\$340,000	ψŪ	φU	φU	φU	ψŪ	\$340,000			\$7,303,014	Carnation. This projec
45	WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snog	FCD Acqu/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			\$5,535,677	them better withstand structures.
46	WLFL2 MUD CREEK SEDIMENT FACILITY WLFL2 SE 19TH WAY REVETMENT	Lower Snoq Lower Snoq	Agreement FCD Const	\$0 \$1,916,294	\$0 \$1,835,637		\$0 \$80,657		\$432,000 \$80,657	\$0 \$0 \$0	\$0 \$0 \$0	\$0	\$0	\$0 \$0				\$432,000	Snoqualmie: Design a Fall City. Rebuild reve
																			Duvall. Large capital p
	WLFL2 SINNEMA QUAALE 2011 REPR	Lower Snoq	FCD Const	\$12,508,516	\$12,447,548		\$60,968	(\$60,968)	\$0	\$0	\$0	\$0	\$0	\$0	\$0				Valley Trail. Construct Duvall. Regional flood
	WLFL2 SNOQUALMIE VALLEY FEAS WLFL2 STOSSEL REVETMENT	Lower Snoq Lower Snoq	Agreement FCD Const	\$0 \$0	\$0 \$0	\$50,000	\$0 \$0	\$50,000	\$0 \$100,000	\$250,000 \$150,000	\$250,000 \$170,000	\$0 \$500,000	\$0 \$2,500,000	\$0 \$0	\$500,000 \$3,420,000		ļ		be the most cost effect CarnationPlaceholder
						<i>\$</i> 30,000		φ30,000											Carnation. This complete
51	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	\$1,107,886	\$970,781		\$137,105		\$137,105	\$0	\$0	\$0	\$0	\$0	\$137,105			\$1,107,886	Revetment on the Sno Carnation. This project
50	WLFL2 TOLT PIPELINE PROTECTION	Lower Snog	FCD Const	\$10,778,068	\$10,644,758		\$133,310		\$133,310	\$0	\$0	\$0	\$0	\$0	\$133,310			\$10,778,068	River channel threater
52	THE LE TOET FIFTELINE FROTEGIION	Lower Silog	I CD CONSt	\$10,778,008	<b></b> φ10,644,758	i	\$133,31U		\$133,31U	\$U	φU	\$0	<u>۵</u> ۵	\$0	a133,310	1	1	yιU,//δ,U08	

ct will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during

project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding of rty within the Town of Skykomish. ximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely

roject will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as

places. t will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry. Will likely be implemented by the Strike ment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150

tion). Failure has occurred previously in this section of revenuent rule. Unstable section of reveal stables reven a approximately rule in the section of revenuent rule in the section of rule in the section of

e frequency of community isolation caused by floodwaters overtopping these roadways. share of \$8.4M levee setback project. The overtops at a 20-year or greater flood, inundating undeveloped property, railway lines and would reconnect 25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant

e remaining \$4.2 million project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the ualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan. with willing sellers to acquire eighteen homes at risk from channel migration along the Middle Fork (Project E in the draft Capital Investmer

### holder for corridor plan implementation project(s) e Fork Snoqualmie Corridor Planning, scheduled for completion in 2018

rade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards. ce two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The duce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this he North Fork has overtopped the adjacent levees.

ve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert. orth Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the liable during a flood, it is important to protect the piers and abutments from scour failure. e feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or

the reasoning actory to magnet the magnet the magnet the second water outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the verwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2020.

duct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or rais atback levee / gravel removal / home elevations. rate low section of Reinig Rd to alleviate flooding that blocks roadway.

three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet.

titicipated in 2020. ess flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.

s identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee is dentified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. we deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired segment of levee in pla

reach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued

saten 428th Ave embankment or bridge. ereen 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential this facility could result in damage to a heavily used county road (428th Ave SE). Scheduled for 2018 construction.

r approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. S latively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding. Project

8 construction. holder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve aduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being F Snoqualmie Corridor Plan. re a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the

are a concept of requirement report (or ) to analyze and socie of spannangment representation of the analyge and used reading option as the es not provide enough hydraulic opening due to the transport of sediments and water overdrops the approaches during floods. project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and n damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the

e eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive

e elevent sount Point Structuralitie reversingent interstantiatus on the So Anny Colps of Engineers PL 64-99 program rom the Corps in the event of flood damage to the levees. e flooding on this sole access road by replacing the existing culverts and raising the roadway to elminate over-topping. to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.

e: Elevate several flood-prone homes in the areas around Walnut St and Northern St. roximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of alley downstream of Duvall. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which nit access to the downstream property owners during or following a flood event. bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent

s during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D. ect provides technical and cost-sharing assistance to agricultural landowners in the Lower Snogualmie floodplain to help them better

acts of flooding. Specific project actions include farm pads and levation or flood profing of agricultural structures. In the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.

major hood events in the future, and restore the eroded creek bed and interpant profile to outre the brodge degainst scour. struction project to protect SR 169 and critical public infrastructure in Renton. er is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend ent undercutting of the riverbank and roadway. ng as possible local match for FEMA grants to elevate or acquire at-risk structures. Indation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing.

e Snoqualme River at Dural and is the city's primary route. ared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualr lood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.

pject provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snogualmie floodplain to help and the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural

on and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site

revetment to protect road access to high value agricultural operations and lands. Construction is complete. ital project to repair 1000 linear feet of the Sinnema Quaale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoq uction is complete. ooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley with chronic flood issues impacting over 25,000 daily drivers.

der costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE. mpleted project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank

Snoqualmie River, downstream of the City of Carnation. sject will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqu atens to undermine the Seattle Public Utilities water supply line at this location south of Duvall. Construction is complete.

). Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expendiure	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
	<b>T</b> 1.	500.0	0000.000	<b>A</b> 100.000		<b></b>		<b>0</b> 101 100				\$0		<b>6</b> 101 100				Carnation. Face rock di relative to upstream and
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	cut off popular riverside Carnation. Repair appro
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	Missing face and toe ro Carnation. Facility failur
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	and property. Carnation. Feasibility s
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	regulatory Channel Mig Carnation. Capital Inve
57 WLFL3 LOWER FREW LEVEE SETBACK 58 WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt Tolt	FCD Const FCD Acqu/Elev	\$478,664 \$744,475	\$215,777 \$529,475	\$100,000 (\$190,000)	\$262,887 \$215,000	\$825,000	\$362,887 \$850,000	\$700,000 \$0	\$850,000 \$0	\$700,000 \$0	\$14,650,000 \$0	\$100,000 \$0	\$17,362,887 \$850,000			\$17,578,664 \$1,379,475	
																		Carnation. Damage is a damage is at the down
59 WLFL3 REMLINGER LEVEE 2017 REPAIR 60 WLFL3 RIO VISTA PROPERTY ACQ	Tolt Tolt	FCD Const FCD Acqu/Elev	\$311,000 \$500,000	\$143,033 \$203	(\$449,797)	\$167,967 \$499,797	\$1,382,000	\$167,967 \$1,432,000	\$0 \$0	\$0 \$449,797	\$0 \$0	\$0 \$0	\$0 \$0	\$167,967 \$1,881,797				property. Construction Carnation. Capital Inve
																		Carnation. This project road, ultimately complete
61 WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqu/Elev	\$4,953,353	\$4,588,674		\$364,679	\$216,321	\$581,000	\$0	\$0	\$0	\$0	\$0	\$581,000				downstream of San So Carnation. Capital Inve
62 WLFL3 SAN SOUCI REACH IMPRVMNTS	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				neighborhood. Carnation. Capital Inve
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				production estimates Carnation. Capital Inve
64 WLFL3 SR 203 BR IMPRVMNTS FEAS 65 WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	FCD Const FCD Const	\$395,900 \$46,909	\$22,658 \$46,909		\$373,242 \$0		\$373,242 \$0	\$0 \$0			\$0 \$0	\$0 \$0	\$373,242 \$0			\$46,909	County Parks parking a Carnation. Flood dama
66 WLFL3 TOLT CIS LONG TERM 67 WLFL3 TOLT CIS MED TERM	Tolt Tolt	FCD Const FCD Const	\$0 \$0	\$0 \$0	\$0 \$0			\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$56,250,000	\$28,800,000		Carnation. Implement p Carnation. Implement p
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 management actions. S
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 Inve
70 WLFL3 TOLT R MILE 1.1 SETBACK	Tolt	FCD Acqu/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 f Tolt Corridor Plan.
71 WLFL3 TOLT R NATURAL AREA ACQ 72 WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt Tolt	FCD Acqu/Elev FCD Const	\$2,605,067 \$250,000	\$2,555,550 \$50,160	\$1,350,247	\$49,517 \$199,840	\$230,236 (\$190,000)	\$1,630,000 \$9,840	\$0 \$0	\$685,000 \$0		\$0 \$0	\$0 \$0	\$2,315,000 \$9,840			\$4,870,550 \$60,000	
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 Inves as funds become availa
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 Inve floodwater conveyance
75 WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acqu/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 neighborhood.
																		Fall City. Repair 150 lin embankment for Dike F
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				which would experience Fall City. This bridge ha
77 WLFL4 RAGING SCOUR REPAIR 2017 78 Snoqualmie-South Fork Skykomish Subtotal	Raging	Agreement	\$80,000 \$90,199,917	\$25,062 \$77,430,921	\$8,933,012		\$2,777,495	\$54,938 \$24,479,506	\$0 \$14,583,585	\$0 \$18,763,277	\$0 \$13,555,407	\$0 \$27,126,341	\$0 \$27,324,575	\$54,938 \$125,832,690			\$80,000 \$392,613,611	only one house but is a
79 80					\$0 \$0	\$0 \$0		\$0 \$0										
31 WLFL5 ALLEN LK OUTLET IMPRVMNT	Sammamish	Agreement	\$0	\$0	\$400,000	\$0		\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$0	\$2,800,000			\$2,800,000	Sammamish. To addres retention/detention opti
																		The Bayless Revetm flanked and/or overto
32 WLFL5 BAYLESS 2020 REPAIR	Sammamish	FCD Const				\$0	\$50,000	\$50,000	\$200,000	\$0	\$0	\$0	\$0	\$250,000			\$250,000	revetment. Continued Sammamish: This proje
33 WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH 34 WLFL5 IRWIN R 2020 REPAIR	Sammamish Sammamish	Agreement FCD Const	\$0	\$0	\$400,000	\$0 \$0	\$25,000	\$400,000 \$25,000	\$0 \$50,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$400,000 \$75,000			\$400,000 \$75.000	deposition. Further damage to the
85 WLFL5 JEROME 2020 REPAIR	Sammamish	FCD Const				\$0	\$50.000	\$50.000	\$90.000	\$0	\$0	\$0	\$0	\$140.000				The Jerome Revetment private utilities. Loss of
86 WLFL5 MOMB 2020 REPAIR	Sammamish	FCD Const				\$0	\$50.000	\$50,000	\$60.000	\$0	\$0	\$0	\$0	\$110.000				Damage to the SE 1560 the facility may further of
37 WLFL5 SAMMAMISH CAPITAL INVESTMENT STRATEGY	Sammamish	FCD Const				\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000			\$250,000	Identify and prioiritize n Woodinville. Repair and
8 WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	FCD Const	\$1,180,065	\$1,175,342		\$4,723	(\$4,723)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,175,342	with Parks. Full permitt proximity. Construction
																		Redmond. Willowmoor downstream Sammami
																		ongoing flow conveyan impacts and costs. In J
88 WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	FCD Const	\$3,520,977	\$3,223,377		\$297,600		\$297,600	\$0	\$0	\$0	\$0	\$0	\$297,600			\$3,520,977	various design element when the 30% design is
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 Avor Bellevue. Reduce flood
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	events have increased Issaquah. Prepare a fea
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	idenify potential solution
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 con Washington. Implement
			, . ,															Newcastle. As recomm Creeks) to limit sedime
93 WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	Lk Wash Tribs	FCD Const	\$380,000	\$220,545	\$150,000	\$159,455		\$309,455	\$0	\$0	\$0	\$0	\$0	\$309,455			\$530,000	sediment facility. 2020 Critical facilities (Utilitie
94 WLFL7 BELMONDO 2020 REPAIR	Cedar	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,000				damage likely to occur Residential land use an
95 WLFL7 BRODELL 2020 REPAIR 96 WLFL7 BYERS 2020 EMERGENCY ACTION	Cedar Cedar	FCD Const FCD Const	\$0 \$0	\$0 \$0	\$25,000	\$0 \$0	\$50,000	\$50,000 \$25,000	\$450,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$500,000 \$25,000			\$500,000 \$25,000	may occur next flood se Emergency action to pr
97 WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acqu/Elev	\$4,330,532	\$3,986,708		\$343,824	\$331,176	\$675,000	\$0	\$0	\$0	\$0	\$1,200,000	\$1,875,000				Renton. This project wil Investment Strategy).
98 WLFL7 CEDAR CIS LONG TERM 99 WLFL7 CEDAR CIS MED TERM	Cedar Cedar	FCD Const FCD Const	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$22,000,000	\$35,400,000		Carnation. Implement p Renton. Elevate or acq
																		Renton. This six-year fle Washington. Project co
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. Improve Cedar
01 WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100,000	This emergency action
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				damaged portion. This Erosion and scour have
103 WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$136,000	\$0	\$0	\$0	\$0	\$186,000			\$186,000	Jam (ELJ #6), within the Renton. Implement pro
04 WLFL7 CEDAR RES FLOOD MITIGATION	Cedar	FCD Acqu/Elev	\$0	\$0		\$0	\$674,000	\$674,000	\$0	\$0	\$0	\$0	\$800,000	\$1,474,000			\$1,474.000	analysis has identified s homes per year.
105 WLFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar	FCD Const	\$290,000	\$23,690	\$68,302	\$266,310	(\$150,000)	\$184,612	\$0	\$0	\$0	\$0	\$000,000	\$184,612			\$208,302	Renton. Capital Investr
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				Renton. The project wil maintenance action for
107 WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement	\$3,750,000	\$0	\$1,250,000	\$3,750,000		\$5,000,000	\$0			\$000,000	\$000,000	\$5,000,000				Renton. Levee improve Erosion and scour have

k displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will side trail. Potential impact to highway if facility breaches during a major flood. Construction is complete. proximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Scheduled for 2018 construction ilure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to resid study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from ly study to determine the nature and extent or level improvements necessary to control real more an appendix of the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2018 Draft Tol River Channel Migrat d in CIS at \$14.5M-\$16.7M n between the Swiftwater development and the river for the future setback of the Upper Frew Levee is approximately 60 lineal feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The wnstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger n complete ivestment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available. sct will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community acces pleting project initiated 20 years ago by others. Approximately 20 homes removed from high hazard areas within and just upstream and Souci neighborhood. vestment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souc vestment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment vestment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King nage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp. nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. dor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplai . Scheduled for adoption in 2017. vestment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk n funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the nvestment strategy: acquire at-risk homes from willing sellers. neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road. nvestment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road ele ailable. vestment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and In the second s second seco I lineal feet of discontinuous damage and missing toe rock. The levee protects the landward area from flooding and serves as the road e Rd, an access road to the Fall City boat launch. The damaged levee section is immediately adjacent to the Twin Rivers golf course barn, The process of the fail of the fail of the second s ress chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and down options; study road-raining options; prepare Concept Development Report, analyze and select best options. etment protects a sole access bridge to a residential community (about 70 homes) in the City of Issaquah. The facility was rtopped during the flood resulting in flooding of the low lying Sycamore neighborhood in the City of Issaquah behind the ed erosion may result in damage to the bridge and ongoing flooding to the neighborhood. oject will restore access to one river mile of high quality kokanee salmon habitat and reduce the risk of flooding by reducing sediment he facility could cut off the sole access to one resident (via a private road and bridge over the creek). ent protects three private residences in the City of Issaquah. Erosion of the revetment could result in loss of property and damage to of bank in front of middle property. 70 linear feet (LF) of erosion. 56th 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 er destabilize the steep slope of the landslide and threaten downstream homeowners e near-, mid-, and long-term capital projects for Flood Control District funding along the Sammamish River. and stabilize two short sections of the right riverbank near 1-405 to protect the regional Sammamish River rail. Work is being coordinate mitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to 1-405 mining win be required as work win be below Or two pussion opposited beasenies win be required into two Dor and Triwy due to redo-on is targeted for summer 2016 and will likely require declouing trail users to adjacent roads. or Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammanish while maintaining mish River flood control performance and enhancing habitat. The project will reconfigure the Sammanish transition zone to ensure ance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including nts such as variable depth pools, cold water supplementation, and other elements itemized in the motion. Project costs will be updated In is complete in December 2018. vondale Rd from an embankment that has been scoured by floodwaters from Bear Creek. soding during high-intensity storm events along Factoria Boulevard, a major transportation corridor within the City of Bellevue. These relia is down in the store of the st ed in frequency and are anticipated to be even more frequent in the future as a result of climate change. I feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis tr itons to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the onveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Interested by City of Bellevue. Expenditure forecast to be updated based on unrent project schedule. mmended by City of Bellevue. Expenditure forecast to be updated based on current project schedule. mmended in the May Creek Basin Plan, two sediment trap facilities will be constructed on May Creek tributaries (Cabbage and Country ment loading. FCD funding is for initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future 20 funding is for permitting and design of a sediment facility. Itilies, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank -we name merici biol-future area. ur next major high-flow event. and critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage season/likelihood increasing J seasof interimous increasing. D prevent flooding of Bvers Road, which is the sole access/eqress for numerous residences along the Cedar River. will acquire strategic real estate upon which several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control District capi nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee couire highest risk and repetitive loss properties from willing sellers. Elevate or purchase approximately 2 homes each year. flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake complete. Closeout in 2020 dar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay on will armor up to 300 feet river bank and construct a buried revetment to stabilize the bank and prevent further erosion to the mos This emergency action and the subsequent extension are upstream of the CRT 2 revetment in an area referred to as "zone B." have resulted in loss of upper ballast, dislodging of key logs, shearing of piles, and damage to hardware connections, to an Engineered Log the Cedar Rapids reach. rojects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. Project K on the CIS: Risk d 53 homes as high risk from flooding and channel migration, but which are not mitigated by projects. Elevate or purchase approximately 2 estment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank

will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016. ovements necessary to satisfy levee certification engineering recommendations. ave resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined es, likely to fail into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility,

															6-Year CIP				Comments
				2019 Inception to Date	2019 Inception to Date	2020	2019	2020 Reallocation	2020	2021	2022	2023	2024	2025	Total (Including 2019	CIS	CIS	Project Life	Comments
No.	Title	Basin	Type of project	Budget	Expendiure	Adopted	Carryover	Request	Revised	Projected	Projected	Projected	Projected	Projected	Carryover)	Year 7-10	10+ Year	Project Life Total	Osidianal (a silidiana (i bilidian
										• · · · · · · · ·									Critical facilities (Utilities season/likelihood increa
	WLFL7 CRT2 ZONE D 2020 REPAIR WLFL7 DORRE DON AVULSION ANALYSIS	Cedar Cedar	FCD Const FCD Const	\$0 \$0	\$0 \$0		\$0 \$0	\$50,000 \$50,000	\$50,000 \$50,000	\$143,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$193,000 \$50,000			\$193,000 \$50,000	The main channel has a
																			Renton. Washington Sta capacity for flood storage
112	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqu/Elev	\$5,311,784	\$5,836,796		(\$525,012)	\$525,012	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,836,796	design elements of the Renton. Capital Investm
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	acquire up to 5 properti Issaquah. Construct inte
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	
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	construction of side cha
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 Investm infrastructure modificati
																			Renton. Capital Investm revetment; remove porti
	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. To address a ci
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	replacement and road-ra Renton. Design and imp
119	WLFL7 MADSEN CR RENTON	Cedar	Agreement	\$635,000	\$62		\$634,938		\$634,938	\$0	\$0	\$0	\$0	\$0	\$634,938			\$635,000	level flood protection for Renton. Capital Investm
120	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	\$490,246	\$297,086		\$193,160		\$193,160	\$0	\$0	\$0	\$0	\$0	\$193,160			\$490,246	Erickson Levee. Pendin Critical facilities (Utiliti
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	bank along 200 feet -
																			Renton. This project rep design for potential leve
123	WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Acqu/Elev	\$5,231,042	\$4,378,048		\$852,994		\$852,994	\$0	\$0	\$0	\$0	\$0	\$852,994			\$5,231,042	portion of scope is comp Renton. Conduct feasibi
124	WLFL7 SR 169 FEASIBILITY STUDY	Cedar	FCD Const	\$646.800	\$295.338	\$138.203	\$351.462		\$489.665	\$0	\$0	\$0	\$0	\$0	\$489.665			\$785.003	drainage infrastructure, a design.
	Cedar-Sammamish Subtotal	oodu	1 OD CONOL	\$56,880,796		\$7,833,030		\$4,485,043		\$17,621,435	\$4,463,445	\$4,940,367	\$3,541,720	\$3,932,358	\$61,905,582			\$161,098,193	Googn
120																			Kent. Floodwall construct
																			property acquisition and
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	FCD 2016-20 Section 6, once the District's ILA with
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 control building, replace
130	WLFL8 BRPS FISH PASS IMPRVMNTS	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 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 much more frequently th
	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
	WLFL8 COVINGTON CR BLACK DIAMOND	Green	Agreement	\$0	\$0 \$0	\$291,500	\$0		\$291,500	\$2,002,000	\$0 10,011	\$0	\$0	\$0	\$2,293,500				Black Diamond: Remove for water flow and allow
				**	\$0	\$251,300	**	<b>\$</b> 00,000			\$0 \$0		\$0 \$0	\$0 \$0					Kent. This project will as
134	WLFL8 DESIMONE MAJOR REPAIR	Green	FCD Const	\$0	\$0		\$0	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000				Only the conditions asse Damage increases vu
	WLFL8 FORT DENT 2020 REPAIR WLFL8 GALLIDYKSTRA 2020 REPAIR	Green Green	FCD Const FCD Const	\$0 \$200,000	\$0 \$90,891	\$207,314	\$0 \$109,109	\$50,000 \$0	\$50,000 \$316,423	\$50,000 \$1,750,783	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$100,000 \$2,067,206			\$100,000 \$2,158,097	increases vulnerability Auburn. Complete Phase
137	WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/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 construction schedules f
	WLFL8 GREEN R IMPROVEMENT 2024	Green	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100.000	Auburn. Improve SE Gre thick layer of overlay.
100		Groom	rigroomoni	¢0	φo		ţu				φü	¢0	\$100,000	ψŪ	\$100,000			<i><i></i></i>	Auburn. This project will
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	eligibility for US Army Co
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	
																			Kent. New project to imp 24.46-24.72) to a more s
141	WLFL8 HSB BREDA 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	the 500-year (0.2% annu
																			Kent. New project to imp USACE due to a slope d
																			levee in this reach, set b Puget Sound Energy fac
																			about RM 24.3 and RM 2 of major modification to
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 imp engineering standards.
																			millions of dollars in dam steepened slopes from 1
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	drawdown of 1. 01 at RI
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 p the operating budget.
	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 co
146	WLFL8 LOWER RUSSELL ACQ KENT WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green Green	Agreement FCD Const	\$1,023,656 \$1,743,249	\$1,123,668 \$329,299	\$1,000,000	(\$100,012) \$1,413,950	\$100,012	\$0 \$1,413,950	\$0 \$0					\$0			\$1,123,668	Kent. Acquisitions by the Kent. Lower Green Rive
147		Green	T CD Const	\$1,743,245	<i>4</i> 323,235		φ1,413,930		φ1,413,930	<b>4</b> 0	φU	ψŪ	φU	φU	\$1,413,930			\$1,743,249	Kent. Remove and repla
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	17.85 (S 212th St) and ri Increased expenditure a
	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 analys necessary land rights.
	WLFL8 NEWAUKUM CR FLOOD CONVEYANCE RESTORATION	Green	Agreement	\$0	\$0	\$65,000	\$0		\$65,000	\$0									Enumclaw: An undersize Auburn. This project will
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	assumed as a placehold Kent. Project is to improv
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	These segments of the F
153	WLFL8 S 106TH ST DRAINAGE IMPVMNT WLFL8 SIGNATURE POINTE REVETMENT	Green Green	Agreement	\$0 \$300,000	\$0 \$345,419	\$451,000 \$1,445,000	\$0 (\$45,419)		\$451,000 \$1,399,581	\$0	\$0 \$26,777,500	\$0 \$0			\$451,000			\$451,000	Burien: Replace an exist Kent. Project provides in
	WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	\$250,000	\$167.738	ψ.,. <del>1</del> 0,000	\$82,262		\$82,262	\$20,777,500	¢20,777,000 ¢0	\$0		90 60	\$82,262				Kent. Repair of the receir revetment protects an ad
										\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0					Tukwila. Erosion and slu
		Green	FCD Const	\$500,000	\$230,061	AQ	\$269,939		\$269,939	÷-	ψu	÷*	ţ0	ψü	\$269,939			\$500,000	Tukwila. New project to
157	WLFL8 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	with certification requirer Tukwila. New project to
158	WLFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const	\$0	\$0		\$0		<b>\$</b> 0	\$0	\$1,500,000	\$300,000	<u>\$</u> 0	\$0	\$1,800,000			\$1,800,000	protect adjacent busines during the project design
																			Tukwila. US Army Corps interim SWIF. The USA
	WLFL8 TUK-205 USACE GACO REPAIR WLFLS PUGET WAY CULVERT	Green Green	Agreement Agreement	\$15,732,418 \$1,800,000	\$858,822 \$1,095,048		\$14,873,596 \$704,952		\$14,873,596 \$704,952	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$14,873,596 \$704,952			\$15,732,418 \$1,800,000	Seattle. This project will
100	TELES . ODET THAT ODEVENT		Agreentent	φ1,000,000	φ1,090,048		\$104,90Z		φr04,952	φU	φU	<u>م</u> 0	<u>ا</u> ھ	٦¢	φ/04,93Z			ψ1,000,000	ocatile. This project Will

ties, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood reasing. This damage is to the CRT 2 revetment downstream of the emergency repair site listed separately; area is referred to as "Zone

s avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE. State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the rage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds Here and provide conceptionary environmental improvements. The project has constrained forming from the City of Seattle. Also fund the Herzman project and Riverhend. stment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment

rties. tersection improvements which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaqu

SE May Valley Road. tment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee stment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jar hannel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023. ment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantity economic damage potential 2) det ations to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis. stiment Strategy: Raise in place or setback Jones Road; excavate and stabilizer right bank to increase conveyance capacity, reinforce one orbiton of another revertient; acquire 8 at risk properties Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or

a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert I-raising option; and analyze upstream and downstream retention/detention impacts. mplement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year

Implement phase 1 improvements to Madsen Creek to achieve 100-year revention protection for properties south of SR 169. for properties north of SR 169. Isment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the ding results of landslide hazard analysis, FCD will consider options for a project.

ilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed - damage likely to occur next major high-flow event.

represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering svee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD

sibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local re, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary

truction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for ind riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out with Kent expires in 2018. will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the

acement of the trash rake system, and replacement of the screen spray system. will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage

will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which ru y than the other, larger pump engines. will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control

ms, oilers and hoists. ove the three 6-foot diameter culverts where Lake Sawyer flows into Covington Creek and replace with a bridge to eliminate obstruction we passage for migrating salmon. I assess the damaged section of Desimone Levee between the two new floodwall segments, and recommend possible options for repair

ssessment is proposed for funding.

rulnerability of the heavily used regional Green River trail and regional soccer complex (Starfire) and Tukwila Park. Erosion ility to trail and soccer fields.

have 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements. will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to es for those projects. Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a

will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintai / Corps of Engineers PL84-99 program. The current mitigation effort is the Teufel project scheduled for 2018 construction.

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

implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe Bend Levee at the Breda reach (R re stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain nnual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.

implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a 'Minimally acceptable' rating by the e 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 containmen at 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 Tacility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 at 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 to the federal levee so that the City of Kent's secondary containment levee can be incorporated into the federal levee project.

implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened and does not meet curren Inspendent internet with adopted by board of objectives. The constant's non-enteened is to be extended and use into the clause term of 5. The economic consequences of level failure or overtopping to the lower Green River valley is extensive and could cause tens of damage. This capital project area contains a "Minimally Acceptable' deficiency by the US Army Corps of Engineers at RM 25. 5 (over m 1. 25 to 1. 71:11 / for 225 feet). The Horseshoe Bend Levee Centification Report calculated a Factor of Safety (FOS) value for rapid tr RM 25. 57 (Section F). This is barely above the minimum FOS (1. 0) from the US Army Corps of Engineers manual.

nd planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included

cost of a repair (\$500,000) to a \$5 million levee setback project. By relocating the levee, flood risks as wellas future repair costs for the are reduced.

the City of Kent for the Lower Russell levee setback project

the dry of Relif for the cower Rdssell levels settadk project. tiver Corridor Planning and Environmental Impact Statement. splace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river n driver mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat. e authority to match interim SWIF adopted by Board of Supervisors. Ilysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secur

older. prove the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. ne Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.

xisting damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding. s increased level of protection to 1.5 miles of Lower Green River Corridor. Alternative selected by Executive Committee. cent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road. slumping of Tukwila Trail revetment caused by the recent Green River flood resulted in approximately 200 feet of damage to the

to implement interim SWIF adopted by Board of Supervisors. This project will construct a facility to bring this levee segment in complian to implement interim owner adopted by Data of opportants, may project will construct a reality to onling in a rote or adjust in the online in itements for structural stability and raise the levee to roughly the 500 year event. to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwall and sloped embankment to nesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized inclusions. sign phase.

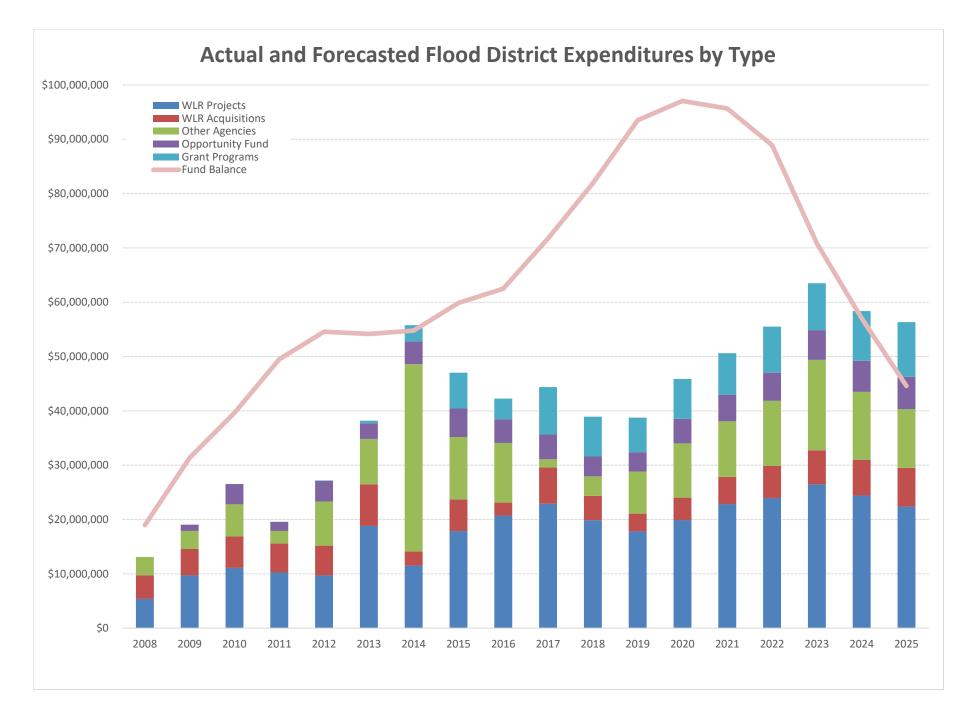
rps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted SACE will share remaining 2/3 of the cost; this allocation is the local share of 1/3 of total cost. Requires cooperation agreement.

will replace an aging and undersized creek culvert under Puget Way SW in Seattle.

No. Tit	le	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expendiure	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
																			Seattle. The South Park
161 WI	LFLS 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	
400 140	LFLS SOUTH PARK PUMPSTATION	Green	Agreement	\$1,787,004	\$1,787,029	\$4,717,996	(\$25)		\$4,717,971	¢0	¢0.	**	<b>6</b> 0	\$0	\$4,717,971			C	Seattle. Cost-share cons schedule. Implemented
	reen-Duwamish Subtotal	Green	Agreement	\$1,787,004 \$114,726.609		\$55.025.510	(420)	(\$14,688,649)	\$92,466,382	\$85,855,463	\$76 741 402	\$10,806,094	\$8,565,231	\$5,092,073				\$342.123.824	schedule. Implemented t
164	een-Duwannish Subtotai			\$114,720,009	\$62,597,069	\$55,025,510	φ <u></u> σ <u></u> 2,129,521	(\$14,000,049)	\$92,400,30Z	\$00,000,400	\$70,741,492	\$10,606,094	\$0,000,201	\$5,092,073	\$279,520,755			\$342,123,024	
165			1									1							
	LFL9 212TH AVE SE @ SR 164 FLD IMPRVMNT	White	Agreement	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$190.000	\$190.000			\$190.000	Enumclaw. Improve the c
	LFL9 212TH AVE SE MITIGATION	White	Agreement	\$0	\$0	\$29,000	\$0		\$29.000	\$36,000	\$0			\$0	\$65.000				Enumclaw, TBD
												1						1 ,	Enumclaw. Park is split b
168 WI	LFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev	\$100,000	\$0		\$100,000		\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000			\$100,000	
169 WI	LFL9 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 re in Government Canal fror approximately five hundre flooding.
																			Tukwila. Reduces flood e
170 WI	LFL9 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	value), improves sedimen
																			Pacific. Construct a new I
171 W	LFL9 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	Estates neighborhood.
																			Greenwater. In mid-2018
																			Highway 410. Subsequen
	LFL9 SLIPPERY CREEK ACQ	White	FCD Acqu/Elev	\$180,000	\$115,563		\$64,437		\$64,437	\$0	\$0	\$0	\$0	\$0	\$64,437				abatement at a remote an
	LFL9 STREAM #10.0048 DS CULVERT	White	Agreement	\$0	\$0		\$0		\$0	\$150,000	\$1,500,000	\$0						\$1,650,000	
174 W	LFL9 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
			505.0		000 517		<b>.</b>		05 13 053					\$0	05 13 053			<b>A0</b> 10 <b>07</b> 1	Auburn. Loss of facing ro
	LFL9 STUCK R DR 2019 REPAIR	White	FCD Const	\$200,000 \$38,987,576	\$98,517	\$446,374	\$101,483 \$1.673.690	\$158.030	\$547,857	\$0	\$0	\$0 \$8,508,038	\$0	φΰ	\$547,857 \$21,770,533				face supporting the rock r
176 W	hite 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																			
170																			Focuses on mapped coast
170 \//	LFLG COASTAL EROSION/FLOODING GRANTS		Grant	\$0	\$0	60	\$0		\$0						\$0			\$0	relocating infrastructure of
175 11			Orani	ψυ	ψŪ	ψŪ	ψŪ		ψŪ						ψυ			ψŪ	Reduces flooding and imp
180 WI	LFLG CULVERT & FISH PASSAGE GRANTS		Grant	\$0	\$0	\$0	\$0		\$0						\$0			\$0	focus on accelerating rep
	LFLG 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				Competitive grant program
	LFLG URBAN STREAMS GRANTS		Grant	\$0	\$0	\$0	\$0		\$0		**!***!**	101.00101	<b>*</b> *)= ·*)*··	+++++++++++++++++++++++++++++++++++++++	\$0				Invests in urban flooding
	LFLG 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				Cooperative Watershed M
	LFLM 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				Evaluation of capital proje
																			Allocation to all King Cou
185 WI	LFLO 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	J
	LFLX 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
	LFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	\$500,000	\$3,354		\$496,646		\$496,646	\$0	\$0		\$0	\$0				\$500,000	
	LFLX FLOOD EMERGENCY CONTGNCY	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		-		Contingency for emergen
	ountywide Subtotal			\$110,959,023	\$79,328,285	\$22,021,794	\$31,630,737	\$1,349,833	\$55,002,364	\$20,418,107	\$20,871,391	\$21,443,665	\$21,877,337	\$22,187,083	\$161,799,947			\$241,128,233	
190																			
191 Gr	rand Total			\$411,753,921	\$298,462,792	\$94,984,555	\$113,291,131	(\$5,918,248)	\$202,357,438	\$139,738,557	\$129,512,310	\$59,253,571	\$61,247,524	\$58,726,089	\$650,835,488			#######################################	E

rk Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. ovements will work in conjunction with the Pump Station.
nstruction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project d by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
e drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way.
it by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
Ill reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to
dred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to
d elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million content nent storage and enhances habitat.
w levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River
18 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of uent site visits identified multiple unpermitted structures and a well, additional funding necessary to complete demolition and asbestos and inaccessible location.
ill analyze culvert replacement and road-raising options and implement the preferred option.
ill analyze culvert replacement and road-raising options and implement the preferred option.
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 ck remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
oastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retrofitting or e out of flood-prone areas to reduce risk.
improves fish passage and water quality by replacing and/or removing culverts or other blockages to fish passage. This program will replacement or removal of culverts that address both significant flood risks to critical infrastructure, and restore fish passage.
aram for flood reduction projects. Increases as a proportion of total FCD tax revenue.
ng projects that reduce risks to people, property, and public infrastructure.
d Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
rojects to determine effectiveness and identify project design improvements.
county jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
d to the FCD's capital fund.
e flood damage repairs

rgency response actions during a flood event.



## FCD Board - Blue folder

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

June 22, 2020

	2019	2020	2020	2021	2022	2023	2024	2025
	Actual	Adopted	Revised	Projected	Projected	Projected	Projected	Projected
Beginning Balance	81,668,684	89,876,187	93,504,495	97,062,854	95,662,551	88,932,407	70,841,364	57,055,932
Revenue								
Flood District								
Flood District Levy <sup>1</sup>	57,896,370	58,962,538	58,241,513	58,403,522	58,469,952	58,588,758	58,717,381	58,860,653
Interest Earnings <sup>2</sup>	2,243,703	1,855,726	2,568,871	2,666,631	2,628,160	2,443,261	1,946,242	1,567,511
Miscellaneous Revenue <sup>3</sup>	267,338	300,000	270,000	270,000	270,000	270,000	270,000	270,000
King County								
Inter-County River Improvement <sup>4</sup>	48,100	45,000	45,000	0	0	0	0	0
Grants <sup>10</sup>	718,830	2,869,028	2,869,028	2,869,028	2,869,028	0	0	0
Miscellaneous Revenue <sup>5</sup>	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	64,309,181	64,337,140	61,402,019	61,033,622	60,798,164
Expenditure								
District Administration <sup>6</sup> Other District Expenditures	(773,881)	(913,238)	(913,238)	(940,635)	(968,854)	(968,854)	(997,920)	(997,920)
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)	(45,883,605)	(50,617,463)	(55,522,502)	(63,511,002)	(58,357,533)	(56,335,024)
Total Expenditure	(49,431,150)	(79,024,594)	(60,536,053)	(65,709,484)	(71,067,284)	(79,493,062)	(74,819,055)	(73,260,453)
Ending Fund Balance (Cash)	93,504,495	75,058,885	97,062,854	95,662,551	88,932,407	70,841,364	57,055,932	44,593,642
Target Fund Balance	0	0	0	0	0	0	0	0
Budgetary Carryover Reserves	(103,956,672)	(132,625,036)	(156,473,834)	(245,594,928)	(319,584,736)	(315,327,305)	(318,217,297)	(320,608,362)
Ending Budgetary Fund Balance <sup>9</sup>	(10,452,178)	(57,566,151)	(59,410,979)	(149,932,376)	(230,652,328)	(244,485,941)	(261,161,365)	(276,014,719)

### Notes:

<sup>1</sup> Property tax forecast provided by the Office of Economic and Financial Analysis in March, 2018, less undercollection assumption of 1%.

<sup>2</sup> Interest earnings approximated using prior year actuals and increasing by 3% per year.

<sup>3</sup> District miscellaneous revenue due to multiple sources such as state forest sales, private timber harvest tax, unrealized investments, leashold excise taxes, and immaterial corrections from prior years. In 2017 this included \$4M from the sale of the Riverside Business Park in Kent, originally purchased for the Briscoe Levee project, but later deemed unnecesary when the scope of the project changed.

<sup>4</sup> 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 Business park, an acquisition under the Briscoe Levee Setback that was ultimately not needed for the project. While this sale could be considered a reduction in project expenditures, governmental accounting rules required it be categorized as a revenue.

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.

<sup>8</sup> The Unreserved Fund Balance is the remaing 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 quantification. The reserve quantities above reflect initial considerations by the District in lieu of more formal direction.

9 The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand the District's total budgetary commitment.

<sup>10</sup> 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**

al Expenditure Detail								
	2019	2020	2020	2021	2022	2023	2024	2024
	Actual	Adopted	Revised	Projected	Projected	Projected	Projected	Projected
FCD Projects New Appropriation	739,781	(42,782,730)	(28,074,989)	(57,253,007)	(67,391,039)	(30,205,780)	(29,682,483)	(20,372,828)
FCD Projects Carryover	(32,817,275)	(16,038,747)	(16,148,408)	(24,322,868)	(58,734,630)	(102,161,792)	(105,894,058)	(111,172,763)
Expenditure Rate	56%	56%	45%	28%	19%	20%	18%	17%
A. RFMS Project Expenditures	(17,813,428)	(32,394,027)	(19,900,529)	(22,841,245)	(23,963,877)	(26,473,514)	(24,403,777)	(22,362,751)
FCD Flood Mitigation New Appropriation	(1,614,371)	(1,866,201)	(9,693,049)	(9,133,722)	(9,811,420)	(7,998,321)	(8,088,271)	(9,699,820)
FCD Flood Mitigation Carryover	(16,485,443)	(12,669,870)	(13,223,472)	(18,791,547)	(22,898,721)	(26,822,316)	(28,552,922)	(30,045,778)
Expenditure Rate	18%	50%	18%	18%	18%	18%	18%	18%
B. RFMS Flood Mitigation Expenditures	(3,270,460)	(7,328,035)	(4, 124,974)	(5,026,549)	(5,887,825)	(6,267,715)	(6,595,415)	(7,154,208)
Other Agency New Appropriation	(30,066,843)	(28,744,062)	(29,706,707)	(54,217,268)	(32,669,385)	(899,605)	(2,810,000)	(7,462,358)
Other Agency Carryover	(30,413,688)	(51,408,451)	(53,485,324)	(73,208,987)	(117,232,155)	(137,909,417)	(122,151,939)	(112,465,745)
Expenditure Rate	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)
Opportunity Fund New Appropriation	(5,889,245)	(6,091,017)	(6,091,017)	(6,255,428)	(6,414,885)	(6,568,517)	(6,720,084)	(6,869,230)
Opportunity Fund Carryover	(14,505,037)	(15,295,712)	(16,535,261)	(18,101,022)	(19,485,160)	(20,720,036)	(21,830,843)	(22,840,741)
Expenditure Rate	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
Grants New Appropriation	(4,684,168)	(15,500,545)	(15,500,545)	(12,879,132)	(13,225,580)	(13,581,348)	(13,946,687)	(14,321,852)
Grants Carryover	(6,971,932)	(13,955,019)	(13,898,666)	(22,049,408)	(27,244,261)	(31,971,175)	(36,897,544)	(41,692,269)
Expenditure Rate	55%	32%	25%	22%	21%	19%	18%	18%
E. Grant Payments	(6,355,527)	(7,767,774)	(7,349,803)	(7,684,279)	(8,498,667)	(8,654,979)	(9,151,961)	(10,082,542)
Capital Summary - All Expenditures A-F								
Total New Capital Appropriation <sup>11</sup>	(41,514,846)	(94,984,555)	(89,066,307)	(139,738,557)	(129,512,310)	(59,253,571)	(61,247,524)	(58,726,089)
Total Carryover	(101,193,375)	(109,367,799)	(113,291,131)	(156,473,834)	(245,594,928)	(319,584,736)	(315,327,305)	(318,217,297)
Overall Expenditure Rate	27%	32%	23%	17%	15%	17%	15%	15%
Total Capital Expenditure <sup>7</sup>	(38,751,549)	(64,647,146)	(45,883,605)	(50,617,463)	(55,522,502)	(63,511,002)	(58,357,533)	(56,335,024)

Lambert moved. The motion carried.

June 24, 2020 Reinstate Tolt River Road Elevation Feasibility



Sponsor:

Kathy Lambert

Proposed No.: FCD2020-11.1

## 1 AMENDMENT TO PROPOSED RESOLUTION FCD2020-11.1

- 2 Delete Attachment B, 2020 Reallocation Budget June 22, 2020, and insert Attachment B,
- 3 2020 Reallocation Budget June 22, 2020.; Delete Attachment D, 2020 Reallocated
- 4 Capital Budget June 22, 2020, and insert Attachment D, 2020 Reallocated Capital Budget
- 5 June 22, 2020; Delete Attachment E, 2020-2025 Reallocated Six-Year CIP June 22,
- 6 2020, and insert, Attachment E, 2020-2025 Reallocated Six-Year CIP June 22, 2020; and
- 7 Delete Attachment H, 2020-2025 Six-Year CIP Project Allocations + Carryover June 22,
- 8 2020, and insert 2020-2025 Six-Year CIP Project Allocations + Carryover June 22, 2020.
- 9

## 10 Effect: Appropriates money to the Tolt River Road Elevation Feasibility capital

11 project.

## 2020 Reallocation Budget

## **Attachment B**

June 22, 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	(5,728,248)	202,547,438
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	109,362,003	113,566,131	(5,728,248)	217,199,886
Projected Capital Reserves - Cash Fund Balance <sup>1</sup> Projected Capital Reserves - Budgetary Fund Balance <sup>2</sup>	93,504,495 (10,452,178)			96,977,354 (59,600,979)

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

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

# 2020 Reallocated Capital Budget

Attachment D

June 22, 2020

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$8,786,248	\$5,912,617	\$9,970,641	\$0	\$24,669,506
Cedar River Basin	\$2,932,813	\$6,966,708	\$17,506,737	\$0	\$27,406,257
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	\$39,594,426	\$44,705,964	\$116,955,119	\$1,291,929	\$202,547,438

### 2020 - 2025 Reallocated Six-Year CIP Attachment E

June 22, 2020

	2020	2019	2020	2020						2020 - 2025
Name	Approved	Carryover	Reallocation	Revised	2021	2022	2023	2024	2025	Total
	<b>#0.000.040</b>	¢40 700 000	0.007.405	04 000 500	44 500 505	40 700 077	40 555 407	07 400 044	07 00 4 575	400.000.000
Snoqualmie River Basin	\$8,933,012	\$12,768,999	2,967,495	24,669,506	14,583,585	18,763,277	13,555,407	27,126,341	27,324,575	126,022,690
Cedar River Basin	\$7,833,030	\$15,088,184	4,485,043	27,406,257	17,621,435	4,463,445	4,940,367	3,541,720	3,932,358	61,905,582
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	12,879,132	13,225,580	13,581,348	13,946,687	14,321,852	97,353,810
WRIA Grants	\$0	\$0	-	-	-	-	-	-	-	-
Total	\$94,984,555	113,291,131	(5,728,248)	202,547,438	139,738,557	129,512,310	59,253,571	61,247,524	58,726,089	651,025,488

#### 2020 - 2025 Six-Year CIP Project Allocations + Carryover Attachment H

June 22, 2020

#### Capital Investment Strategy Project Grant/External Revenue Awarded Cost Share Contribution to Others New Project - 2019 Revised ted scope based on FCD an

												Updated scope i	based on FCD app	roved charter					
															6-Year CIP				Comments
				2019 Inception to Date	2019 Inception to Date	2020	2019	2020 Reallocation	2020	2021	2022	2023	2024	2025	Total (Including 2019	CIS	CIS	Project Life	
No.	Title	Basin	Type of project	Budget	Expendiure	Adopted	Carryover	Request	Revised	Projected	Projected	Projected	Projected	Projected	Carryover)	Year 7-10	10+ Year	Total	Baring. This project wi
1	WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	FCD Acqu/Elev	\$1,145,404	\$703,571	(\$456,736)	\$441,833	\$3,634,903	\$3,620,000	\$456,736	\$0	\$0	\$0	\$115,927	\$4,192,663			\$4,896,235	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 proje homes and property w
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			\$150.001	Skykomish. Approxima damage facility.
						(\$365 632)		<b>6</b> 050 000			0705.000			++					Skykomish. This proje
4	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqu/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	inundation in some pla Skykomish. Project wi
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	Team. Skykomish. Revetmer
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	LF (needs verification)
7	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	\$309,028	\$309,686		(\$658)	\$728	\$70	\$0	\$0	\$0	\$0	\$0	\$70			\$309,756	North Bend. Reduce n Road to reduce the free
																			North Bend. Cost-shar roadways. Project wor
8	WLFL1 BENDIGO UPR SETBACK N BEND	Upper Snoq	Agreement	\$50,000	\$124		\$49,876		\$49,876	\$0	\$0	\$0	\$0	\$4,200,000	\$4,249,876			\$4,250,000	application for the rem
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 proje South Fork Snoqualm
10	WLFL1 MF RESIDENTIAL FLD MTGTN	Upper Snog	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 Strategy)
	WLFL1 MF SNO CORRIDOR IMP	Upper Snog	FCD Const	\$954	\$954		\$0		\$0	\$1,162,249	\$1,196,980	\$1,232,889	\$377,890	\$0	\$3,970,008			\$3,970,962	North Bend. Placehold
12	WLFL1 MF SNO CORRIDOR PLAN WLFL1 MF SNO PL84-99	Upper Snog Upper Snog	FCD Const FCD Const	\$1,824,912 \$0	\$1,658,993 \$0	\$27,585 \$75,000	\$165,919 \$0		\$193,504 \$75,000	\$0 \$75,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$193,504 \$150,000				North Bend. Middle Fo North Bend. Upgrade
																			North Bend. Replace t new culvert will reduce
					<b>6</b> 700.000		<b>6</b> 4 000		<b>*</b> + + + + + + + + + + + + + + + + + + +	•		•••		•	<b>A</b> 4 000				Fork Snoqualmie Rive
	WLFL1 NORMAN CREEK DS CULV WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq Upper Snoq	Agreement Agreement	\$724,000 \$0	\$722,080 \$0		\$1,920 \$0		\$1,920 \$0	\$0 \$0	\$0 \$0	\$0 \$350,000	\$0 \$750,000	\$0 \$0	\$1,920 \$1,100,000				flood water once the N North Bend. Improve S
16	WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Agreement	\$177,742	\$177,742		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$177,742	North Bend. The North bridge safe and reliable
				\$200,000			\$189,735		\$189,735	\$0	¢0	\$0	\$0	\$0	\$189,735				North Bend. Initiate fe
17	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	\$200,000	\$10,265		\$189,735		\$189,735	\$U	\$U	\$0	\$0	\$U	\$189,735			\$200,000	alternative risk mitigat Snoqualmie. Repair de
																			Snoqualmie stormwate City's planned "Riverw
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	
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 levee in place / setbac
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 le North Bend. Repair the
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	Construction is anticip
	WLFL1 RIBARY CREEK	Upper Snog	FCD Const	\$36,492	\$0	\$150,000	\$36,492		\$186,492	\$450,000	\$2,338,618	\$3,223,883	\$0	\$0	\$6,198,993			\$6,198,993	North Bend. Address f
	WLFL1 SF CIS LONG TERM WLFL1 SF CIS MED TERM	Upper Snoq Upper Snoq	FCD Const FCD Const	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$47,200,000	\$57,100,000		Implement projects ide Implement projects ide
														\$0	\$1,948,844			\$2,147,526	North Bend. Six levee
	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$388,000	\$198,682		\$189,318		\$189,318	\$727,790	\$1,031,736	\$0	\$0						North Bend. Total brea
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	erosion could threaten North Bend. Between
																			feet of river bank. Actu failure. Failure of this f
27	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snog	FCD Const	\$51,090	\$47,340	\$300,000	\$3,750		\$303,750	\$360,910	\$0	\$0	\$0	\$0	\$664,660			\$712,000	Tallule. Failule of this i
																			North Bend. Repair ap View Levee is a relativ
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	scheduled for 2018 co
																			North Bend. Placehold conveyance and reduc
29	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	evaluated in the SF Si North Bend. Prepare a
30	WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000			\$150,000	current bridge does no
																			Snoqualmie. This proje channel migration dan
31	WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/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	Riverwalk project. North Bend. Ensure el
32	WLFL1 USACE PL 84-99 SF SNO WLFL2 264TH AVE NE AT SR 202 FLD IMPRVMNT	Upper Snoq Lower Snoq	FCD Const Agreement	\$333,377	\$40,136		\$293,241 \$0		\$293,241 \$0	\$352,868 \$0	\$363,454 \$0	\$0 \$0	\$0	\$0 \$540,000	\$1,009,563 \$540,000			\$1,049,699 \$540.000	future assistance from
34	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMNT	Lower Snoq	Agreement	\$0 \$0			\$0 \$0		\$0	\$0 \$0	\$0 \$0	\$0		\$500,000	\$500,000			\$500,000	Improve drainage to a
35	WLFL2 CITY SNOQ HOME ELEVATIONS	Lower Snoq	Agreement	\$0		\$1,118,000	\$0	\$350,000	\$1,468,000	\$0	\$0	\$0	\$0	\$0	\$1,468,000			\$1,468,000	City of Snoqualmie: El Duvall. Repair approxi
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	the Snoqualmie Valley would severely limit ac
	WERE 2 DUVALE SLOUGH 2017 IMPRV							ψ31,230											Duvall. These two brid
37		Lower Snoq	Agreement	\$400,000	\$277,937		\$122,063		\$122,063	\$0	\$0	\$0		\$0	\$122,063				loosing approaches du Carnation. This project
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	withstand the impacts Duvall. Strengthen the
	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				protect it against majo
40	WLFL2 JOY 2020 REPAIR	Lower Snoq	FCD Const				\$0	\$100,000	\$100,000	\$3,620,000		\$0	\$0	\$0	\$3,720,000			\$3,720,000	New capital construct Fall City. The river is s
	WLFL2 L SNO 2019 BANK REPAIR WLFL2 L SNO REP LOSS MITGTION	Lower Snog Lower Snog	Agreement FCD Acqu/Elev	\$2,200,000 \$1,695,671	\$1,111,942 \$1,279,413		\$1,088,058 \$416,258		\$1,088,058 \$416,258	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,088,058 \$416,258				MSE wall to prevent u Carnation. Funding as
																			Fall City. The foundati
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	Bridge crosses the Sn Fall City. Cost-shared
44	WLFL2 L SNO/ALDAIR CORRDOR 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	Projects reduce flood
44	WEI 12 E SNO/AEDAIK COKKDOK PEN	LOWER STICK	T CD Const	\$7,303,614	\$7,013,214		\$340,000		\$340,000	ψŪ	φU	φU	φU	ψŪ	\$340,000			\$7,303,014	Carnation. This projec
45	WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snog	FCD Acqu/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			\$5,535,677	them better withstand structures.
46	WLFL2 MUD CREEK SEDIMENT FACILITY WLFL2 SE 19TH WAY REVETMENT	Lower Snoq Lower Snoq	Agreement FCD Const	\$0 \$1,916,294	\$0 \$1,835,637		\$0 \$80,657		\$432,000 \$80,657	\$0 \$0 \$0	\$0 \$0 \$0	\$0	\$0	\$0 \$0				\$432,000	Snoqualmie: Design a Fall City. Rebuild reve
																			Duvall. Large capital p
	WLFL2 SINNEMA QUAALE 2011 REPR	Lower Snoq	FCD Const	\$12,508,516	\$12,447,548		\$60,968	(\$60,968)	\$0	\$0	\$0	\$0	\$0	\$0	\$0				Valley Trail. Construct Duvall. Regional flood
	WLFL2 SNOQUALMIE VALLEY FEAS WLFL2 STOSSEL REVETMENT	Lower Snoq Lower Snoq	Agreement FCD Const	\$0 \$0	\$0 \$0	\$50,000	\$0 \$0	\$50,000	\$0 \$100,000	\$250,000 \$150,000	\$250,000 \$170,000	\$0 \$500,000	\$0 \$2,500,000	\$0 \$0	\$500,000 \$3,420,000		ļ		be the most cost effect CarnationPlaceholder
						<i>\$</i> 30,000		φ30,000											Carnation. This complete
51	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	\$1,107,886	\$970,781		\$137,105		\$137,105	\$0	\$0	\$0	\$0	\$0	\$137,105			\$1,107,886	Revetment on the Sno Carnation. This project
50	WLFL2 TOLT PIPELINE PROTECTION	Lower Snog	FCD Const	\$10,778,068	\$10,644,758		\$133,310		\$133,310	\$0	\$0	\$0	\$0	\$0	\$133,310			\$10,778,068	River channel threater
52	THE LE TOET FIFTELINE FROTEGIION	Lower Silog	I CD CONSt	\$10,778,008	<b></b> φ10,644,758	i	\$133,31U		\$133,31U	\$U	φU	\$0	<u>۵</u> ۵	\$0	a133,310	1	1	yιU,//δ,U08	

ct will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during

project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding o rty within the Town of Skykomish. ximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely

roject will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as

places. t will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry. Will likely be implemented by the Strike ment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150

tion). Failure has occurred previously in this section of revenuent rule. Unstable section of reveal stables reven a approximately rule in the section of revenuent rule in the section of rule in the section of

e frequency of community isolation caused by floodwaters overtopping these roadways. share of \$8.4M levee setback project. The overtops at a 20-year or greater flood, inundating undeveloped property, railway lines and would reconnect 25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant

e remaining \$4.2 million project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the ualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan. with willing sellers to acquire eighteen homes at risk from channel migration along the Middle Fork (Project E in the draft Capital Investmer

holder for corridor plan implementation project(s) e Fork Snoqualmie Corridor Planning, scheduled for completion in 2018

rade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards.

ce two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The duce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this he North Fork has overtopped the adjacent levees.

ve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert. orth Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the liable during a flood, it is important to protect the piers and abutments from scour failure. e feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or

the reasoning actory to magnet the magnet the magnet the second water outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the verwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2020.

duct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or rais atback levee / gravel removal / home elevations. rate low section of Reinig Rd to alleviate flooding that blocks roadway.

three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet.

titicipated in 2020. ess flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.

s identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee is dentified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. we deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired segment of levee in pla

reach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued

saten 428th Ave embankment or bridge. ereen 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential this facility could result in damage to a heavily used county road (428th Ave SE). Scheduled for 2018 construction.

r approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. S latively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding. Project

8 construction. holder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve aduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being F Snoqualmie Corridor Plan. re a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the

are a concept of requirement report (or ) to analyze and socie of spannangment representation of the analyge and used reading option as the es not provide enough hydraulic opening due to the transport of sediments and water overdrops the approaches during floods. project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and n damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the

e eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive

e elevent sount Point Structuralitie reversingent interstantiatus on the So Anny Colps of Engineers PL 64-99 program rom the Corps in the event of flood damage to the levees. e flooding on this sole access road by replacing the existing culverts and raising the roadway to elminate over-topping. to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.

e: Elevate several flood-prone homes in the areas around Walnut St and Northern St. roximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of

alley downstream of Duvall. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which nit access to the downstream property owners during or following a flood event. bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent

s during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D. oject provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better

acts of flooding. Specific project actions include farm pads and levation or flood profing of agricultural structures. In the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.

major hood events in the future, and restore the eroded creek bed and interpant profile to outre the brodge degainst scour. struction project to protect SR 169 and critical public infrastructure in Renton. er is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend ent undercutting of the riverbank and roadway. ng as possible local match for FEMA grants to elevate or acquire at-risk structures. Indation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing.

e Snoqualme River at Dural and is the city's primary route. ared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualr lood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.

pject provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snogualmie floodplain to help and the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural

on and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site

revetment to protect road access to high value agricultural operations and lands. Construction is complete. ital project to repair 1000 linear feet of the Sinnema Quaale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoq uction is complete. ooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley with chronic flood issues impacting over 25,000 daily drivers.

der costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE. mpleted project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank

Snoqualmie River, downstream of the City of Carnation. sject will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqu

atens to undermine the Seattle Public Utilities water supply line at this location south of Duvall. Construction is complete.

No.	Trie	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expendiure	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
5	3 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 d relative to upstream an cut off popular riverside
		<b>-</b> 11	505.0		<b>6</b> 100 070				<b>•</b> ••••••••				•		<b>6</b>			<b>*</b> ***	Carnation. Repair appr Missing face and toe ro
	4 WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	FCD Const	\$311,000 \$25.000	\$166,079	\$25.000	\$144,921 \$25,000		\$144,921 \$50.000	\$0 \$450.000	\$0	\$0 \$0	\$0	\$0 \$0	\$144,921 \$500.000			\$311,000	Carnation. Facility failu and property.
	S WLFL3 HOLBERG FEASIBILITY	Tolt	FCD Const	\$25,000	\$0 \$211,557	\$25,000	\$25,000	\$52,870	\$50,000	\$450,000	\$0 \$0	\$0 \$0	\$U \$0	\$0 \$0	\$500,000				and property. Carnation. Feasibility s regulatory Channel Mig
	WLFL3 HOLBERG FEASIBILITY WLFL3 LOWER FREW LEVEE SETBACK	Tolt	FCD Const	\$203,969	\$211,537	\$100,000	\$262,887	\$52,670	\$362,887	\$700,000	\$850,000	\$700,000	\$14,650,000	\$0	\$189,504				Carnation. Capital Inve construction estimated
	B WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	FCD Acqu/Elev	\$744,475	\$529,475	(\$190,000)	\$215,000	\$825,000		\$0			\$0		\$850,000				Carnation. Acquisition Carnation. Damage is a
5	9 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	damage is at the down property. Construction
<u>6</u>	ULFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acqu/Elev	\$500,000	\$203	(\$449,797)	\$499,797	\$1,382,000	\$1,432,000	\$0	\$449,797	\$0	\$0	\$0	\$1,881,797			\$1,882,000	Carnation. Capital Inve Carnation. This project
6	1 WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqu/Elev	\$4,953,353	\$4,588,674		\$364,679	\$216,321	\$581,000	\$0	\$0	\$0	\$0	\$0	\$581,000			\$5,169,674	road, ultimately comple downstream of San So
6	2 WLFL3 SAN SOUCI REACH IMPRVMNTS	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 Inve neighborhood.
6	3 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 Inve production estimates
	4 WLFL3 SR 203 BR IMPRVMNTS FEAS	Tolt	FCD Const	\$395,900	\$22,658		\$373,242		\$373,242	\$0	\$0	\$0	\$0	\$0	\$373,242			\$395,900	Carnation. Capital Inve County Parks parking a
6	SWLFL3 TOLT 2015 FLOOD REPAIRS           SWLFL3 TOLT CIS LONG TERM	Tolt Tolt	FCD Const FCD Const	\$46,909 \$0	\$46,909 \$0	\$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0		\$0 \$0		\$28,800,000	\$28,800,000	Carnation. Flood dama Carnation. Implement
	7 WLFL3 TOLT CIS MED TERM	Tolt	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0		\$0	\$0	\$0		\$56,250,000			Carnation. Implement Carnation. The corrido
	3 WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const	\$1,153,657	\$1,139,227		\$14,430		\$14,430	\$0	\$0	\$0	\$0	\$0	\$14,430				management actions. Carnation. Capital Inve
	9 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. Acquisition
7	D WLFL3 TOLT R MILE 1.1 SETBACK 1 WLFL3 TOLT R NATURAL AREA ACQ	Tolt	FCD Acqu/Elev FCD Acqu/Elev	\$4,306,106 \$2,605,067	\$4,214,727 \$2,555,550	(\$50,781) \$1,350,247	\$91,379 \$49,517	\$230,236		\$850,781 \$0			\$0 \$0	\$0 \$0	\$891,379 \$2,315,000			\$5,106,106 \$4,870,550	
		Tolt	FCD Const	\$250,000	\$50,160		\$199,840		\$199,840	\$0		\$0	\$0	\$0					Carnation. Reduce nei Carnation. Capital Inve
		Tolt	FCD Const	\$0	\$0		\$0		\$0	\$53,045	\$109,273	\$225,102	\$1,043,347	\$1,432,863	\$2,863,628				as funds become avail Carnation. Capital Inve
		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				floodwater conveyance Fall City. Acquisition of
/:	5 WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acqu/Elev	\$1,853,460	\$1,753,810		\$99,650		\$99,650	\$0	\$0	\$0	\$0	\$0	\$99,650			\$1,853,460	neighborhood. Fall City. Repair 150 lir
7	S 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	embankment for Dike I which would experienc
	7 WLFL4 RAGING SCOUR REPAIR 2017	Raging	Agreement	\$80,000	\$25,062	<b>\$0,000,040</b>	\$54,938	¢0.007.405	\$54,938	\$0	\$0	\$0	\$0	\$0	\$54,938			\$80,000	Fall City. This bridge has only one house but is a
7				\$90,199,917	\$77,430,921	\$8,933,012 \$0 \$0	\$12,768,999 \$0	\$2,967,495	\$24,669,506 \$0	\$14,583,585	\$18,763,277	\$13,555,407	\$27,126,341	\$27,324,575	\$126,022,690			\$392,803,611	
8	UVLFL5 ALLEN LK OUTLET IMPRVMNT	0 i-h	A	\$0	\$0	\$0	\$0 \$0		\$0 \$400.000	\$1.400.000	\$1.000.000	\$0	¢0	\$0	\$2,800.000			£0.000.000	Sammamish. To addre
8	I WEFES ALLEN EK OUTLET IMPRVMINT	Sammamish	Agreement	20	\$0	\$400,000	\$0		\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$0	\$2,800,000			\$2,800,000	retention/detention opti The Bayless Revetm
8	2 WLFL5 BAYLESS 2020 REPAIR	Sammamish	FCD Const				\$0	\$50,000	\$50,000	\$200,000	\$0	\$0	\$0	\$0	\$250,000			\$250,000	flanked and/or overto revetment. Continue
8	3 WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Sammamish	Agreement	\$0	\$0	\$400,000	\$0		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000				
	4 WLFL5 IRWIN R 2020 REPAIR	Sammamish	FCD Const				\$0	\$25,000		\$50,000			\$0	\$0	\$75,000				Further damage to the The Jerome Revetmen
	5 WLFL5 JEROME 2020 REPAIR	Sammamish	FCD Const				\$0	\$50,000	\$50,000	\$90,000	\$0	\$0	\$0	\$0	\$140,000				private utilities. Loss of Damage to the SE 156
	8 WLFL5 MOMB 2020 REPAIR 7 WLFL5 SAMMAMISH CAPITAL INVESTMENT STRATEGY	Sammamish Sammamish	FCD Const FCD Const				\$0 \$0	\$50,000 \$250,000	\$50,000 \$250,000	\$60,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$110,000 \$250,000			\$110,000 \$250,000	the facility may further Identify and prioiritize
			505.0	<b>A</b> 4 400 005	<b>A</b> 1 175 0 10		<b>6</b> 1 700	(0.1.700)		•								A. 175 A.A.	Woodinville. Repair an with Parks. Full permit
8	8 WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	FCD Const	\$1,180,065	\$1,175,342		\$4,723	(\$4,723)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,175,342	proximity. Construction Redmond. Willowmoor
																			downstream Sammami ongoing flow conveyan
	3 WI FL5 WILLOWMOOR FLDPLAIN REST	Sammamish	FCD Const	\$3,520,977	\$3,223,377		\$297,600		\$297,600	\$0	\$0	\$0	<b>6</b> 0	\$0	\$297.600			¢0 500 077	impacts and costs. In J various design element when the 30% design i
8	WLFLS WILLOWMOOR FLOPLAIN REST	Lk Wash Tribs		\$3,520,977 \$0	\$3,223,377 \$0	\$550,000	\$297,600		\$550,000	\$550,000		\$0 \$0	\$0 \$0		\$297,600 \$1,100,000				Redmond: Protect Avo Bellevue. Reduce floor
9	) 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	events have increased Issaquah. Prepare a fe
0	1 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	idenify potential solutio
	2 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				Bellevue. Increase con Washington. Implement
		EK Wash Thos	Agreement	\$10,401,002	ψ <i>1</i> ,134,240	\$000,000	φ2,101,002		ψ0,007,002	\$300,000	\$200,000	\$205,000	\$1,510,000	ψ1, <del>4</del> 02,000	\$0,004,710			φ14,000,000	Newcastle. As recomm Creeks) to limit sedime
93	3 WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	Lk Wash Tribs	FCD Const	\$380,000	\$220,545	\$150,000	\$159,455		\$309,455	\$0	\$0	\$0	\$0	\$0	\$309,455			\$530,000	sediment facility. 2020 Critical facilities (Utilitie
	4 WLFL7 BELMONDO 2020 REPAIR	Cedar	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,000			\$100,000	damage likely to occur Residential land use ar
94		<u> </u>	FCD Const	\$0	\$0 \$0	\$25,000	\$0 \$0	\$50,000	\$50,000 \$25,000	\$450,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$500,000 \$25,000			\$500,000 \$25.000	may occur next flood se Emergency action to pr
9	5 WLFL7 BRODELL 2020 REPAIR 5 WLFL7 BYERS 2020 EMERGENCY ACTION	Cedar Cedar	FCD Const	50															Renton. This project wi
99	SWLFL7 BRODELL 2020 REPAIR SWLFL7 BYERS 2020 EMERGENCY ACTION WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Const	\$0 \$4.330.532	**		\$343.824	\$331.176	\$675.000	\$0	\$0	\$0	\$0	\$1,200,000	\$1.875.000			\$5.861.708	
9: 9: 9: 9: 9:	8 WLFL7 BYERS 2020 EMERGENCY ACTION		FCD Const FCD Acqu/Elev FCD Const FCD Const	\$0 \$4,330,532 \$0 \$0	\$3,986,708 \$0 \$0	\$0 \$0	\$343,824 \$0 \$0	\$331,176	\$675,000 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0		\$0 \$0 \$0		\$1,875,000 \$0 \$0	\$22,000,000	\$35,400,000	\$35,400,000	Investment Strategy). Carnation. Implement
91 91 92 93 94 94	SWLFL7 BYERS 2020 EMERGENCY ACTION 7 WLFL7 CDR PRE-CONST STRTGC ACO 9 WLFL7 CEDAR CIS LONG TERM 9 WLFL7 CEDAR CIS MED TERM	Cedar Cedar Cedar	FCD Acqu/Elev FCD Const	\$4,330,532 \$0 \$0	\$3,986,708 \$0 \$0	\$0 \$0	\$0 \$0	\$331,176	\$0	\$0	\$0 \$0 \$0			\$0	\$0 \$0		\$35,400,000	\$35,400,000 \$22,000,000	Investment Strategy). Carnation. Implement p Renton. Elevate or aco Renton. This six-year fl
99 91 97 94 94 95	WLFL7 BYERS 2020 EMERGENCY ACTION WLFL7 CDR PRE-CONST STRTGC ACQ 3 WLFL7 CEDAR CIS LONG TERM WLFL7 CEDAR CIS MED TERM 0 WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const	\$4,330,532 \$0 \$0 \$1,987,587	\$3,986,708 \$0 \$0 \$1,852,687	\$0 \$0	\$0	\$331,176	\$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$134,900		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587	Investment Strategy). Carnation. Implement j Renton. Elevate or aco Renton. This six-year fi Washington. Project c
99 90 90 90 90 90 90 100	WLFL7 BYERS 2020 EMERGENCY ACTION WLFL7 CDR PRE-CONST STRTGC ACQ 3 WLFL7 CEDAR CIS LONG TERM 9 WLFL7 CEDAR CIS MED TERM 9 WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan) 1 WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	Cedar Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const FCD Const FCD Const Agreement	\$4,330,532 \$0 \$0 \$1,987,587 \$0	\$3,986,708 \$0 \$0 \$1,852,687 \$0	\$0	\$0 \$0 \$134,900 \$0		\$0 \$0 \$134,900 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$100,000	\$0 \$0 \$0 \$0	\$0 \$0 \$134,900 \$100,000		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587 \$100,000	Investment Strategy). Carnation. Implement p Renton. Elevate or acq Renton. This six-year fl Washington. Project c Renton. Improve Ceda This emergency action
99 99 91 91 91 91 91 101 101 102	WLFL7 BYERS 2020 EMERGENCY ACTION         WLFL7 CDR PRE-CONST STRTGC ACQ         WLFL7 CEDAR CIS LONG TERM         WLFL7 CEDAR CIS MED TERM         WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)         WLFL7 CEDAR R DWNSTREAM 2024 IMPV         WLFL7 CEDAR R TRAIL SITE 2	Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const FCD Const FCD Const Agreement FCD Const	\$4,330,532 \$0 \$0 \$1,987,587 \$0 \$0	\$3,986,708 \$0 \$0 \$1,852,687 \$0 \$0 \$0	\$0 \$0 \$300,000	\$0 \$0 \$134,900 \$0 \$0	\$878,000	\$0 \$0 \$134,900 \$0 \$1,178,000	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$100,000 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$134,900 \$100,000 \$1,178,000		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587 \$100,000 \$1,178,000	Investment Strateqy). Carnation. Implement ; Renton. Elevate or aco; Renton. This six-year fl Washington. Project c Renton. Improve Ceda This emergency action damaged portion. This Erosion and scour haw
99 99 91 91 91 91 91 101 101 102	WLFL7 BYERS 2020 EMERGENCY ACTION WLFL7 CDR PRE-CONST STRTGC ACQ 3 WLFL7 CEDAR CIS LONG TERM 9 WLFL7 CEDAR CIS MED TERM 9 WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan) 1 WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	Cedar Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const FCD Const FCD Const Agreement	\$4,330,532 \$0 \$0 \$1,987,587 \$0	\$3,986,708 \$0 \$0 \$1,852,687 \$0	\$0	\$0 \$0 \$134,900 \$0		\$0 \$0 \$134,900 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$100,000	\$0 \$0 \$0 \$0	\$0 \$0 \$134,900 \$100,000		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587 \$100,000 \$1,178,000	Investment Strategy). Carnation. Implement j Renton. Elevate or aco Renton. This siv-year fl Washington. Project c Renton. Improve Ceda This emergency action damaged portion. This Erosion and scour haw Jam (ELJ #6), within th Renton. Implement pro
99 91 91 92 92 92 92 100 100 100 100	WLFL7 BYERS 2020 EMERGENCY ACTION         WLFL7 CDR PRE-CONST STRTGC ACQ         WLFL7 CEDAR CIS LONG TERM         WLFL7 CEDAR CIS MED TERM         WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)         WLFL7 CEDAR R DWNSTREAM 2024 IMPV         WLFL7 CEDAR R TRAIL SITE 2	Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const FCD Const FCD Const Agreement FCD Const	\$4,330,532 \$0 \$0 \$1,987,587 \$0 \$0	\$3,986,708 \$0 \$0 \$1,852,687 \$0 \$0 \$0	\$0	\$0 \$0 \$134,900 \$0 \$0	\$878,000	\$0 \$0 \$134,900 \$0 \$1,178,000	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$100,000 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$134,900 \$100,000 \$1,178,000		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587 \$100,000 \$1,178,000 \$186,000	Investment Strategy) Carnation. Implement p Renton. Elevate or acc Renton. This six-year II Washington. Project o Renton. Improve Ceda This emergency action damaged portion. This Erosion and scour haw Jam (ELJ #6), within th Renton. Implement pro analysis has identified homes per year.
99 91 91 99 99 91 91 100 100 100 100	WLFL7 BYERS 2020 EMERGENCY ACTION     WLFL7 CDR PRE-CONST STRTGC ACQ     WLFL7 CEDAR CIS LONG TERM     WLFL7 CEDAR CIS MED TERM     WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)     WLFL7 CEDAR R DWNSTREAM 2024 IMPV     WLFL7 CEDAR R TRAIL SITE 2     WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const FCD Const FCD Const Agreement FCD Const FCD Const	\$4.330.532 \$0 \$1,987,587 \$0 \$0 \$0 \$0 \$0	\$3,986,708 \$0 \$0 \$1,852,687 \$0 \$0 \$0 \$0 \$0	\$0	\$0 \$0 \$134,900 \$0 \$0 \$0	\$878,000 \$50,000	\$0 \$0 \$134,900 \$0 \$1,178,000 \$50,000	\$0 \$0 \$0 \$0 \$0 \$136,000	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$100,000 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$134,900 \$100,000 \$1,178,000 \$186,000		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587 \$100,000 \$1,178,000 \$186,000	Investment Strategy) Carnation. Implement p Renton. Elevate or acq Renton. This six-year fi Washington. Project ct Renton. Improve Cedai This emergency action damaged portion. This Erosion and scour hav Jam (ELL #6), within th Renton. Implement pro analysis has identified homes per year. Renton. Capital Investr failure.
99 99 99 99 99 99 100 100 100 100 100 10	WLFL7 EYERS 2020 EMERGENCY ACTION           WLFL7 CDR PRE-CONST STRTGC ACQ           WLFL7 CEDAR CIS LONG TERM           WLFL7 CEDAR CIS MED TERM           WLFL7 CEDAR REVEE SETBACK FEAS (Cedar Corridor Plan)           WLFL7 CEDAR R DWNSTREAM 2024 IMPV           WLFL7 CEDAR R TRAIL SITE 2           WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR           WLFL7 CEDAR RES FLOOD MITIGATION           WLFL7 CEDAR RIVER TRAIL SITE A BANK           WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const FCD Const FCD Const Agreement FCD Const FCD Const FCD Acqu/Elev FCD Const Agreement	\$4.330,532 \$0 \$1,987,587 \$0 \$0 \$0 \$0 \$0 \$290,000 \$12,065,498	\$3,986,708 \$0 \$0 \$1,852,687 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$300,000 \$68,302 \$501,051	\$0 \$0 \$134,900 \$0 \$0 \$0 \$0 \$0 \$20 \$266,310 \$2,233,720	\$878,000 \$50,000 \$674,000	\$0 \$0 \$134,900 \$0 \$1,178,000 \$50,000 \$674,000 \$184,612 \$2,734,771	\$0 \$0 \$0 \$0 \$0 \$136,000 \$136,000 \$0 \$0 \$445,679	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$111,267	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$114,605	\$0 \$0 \$100,000 \$0 \$0 \$0 \$0 \$0 \$500,000	\$0 \$0 \$0 \$0 \$0 \$0 \$800,000 \$0 \$500,000	\$0 \$0 \$134,900 \$100,000 \$1,178,000 \$186,000 \$1,474,000 \$184,612 \$4,406,322		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587 \$100,000 \$1,178,000 \$186,000 \$1,474,000 \$208,302 \$14,238,100	Investment Stratecy) Carnation. Implement p Renton. Elevate or acq Renton. This six-year fh Washington. Project co Renton. Improve Cedai This emergency action damaged portion. This Erosion and scour have Jam (ELL #6), within th Renton. Implement pro analysis has identified homes per year. Renton. Capital Investr failure. Renton. The project will
99 99 99 99 99 99 100 100 100 100 100 10	WLFL7 BYERS 2020 EMERGENCY ACTION           WLFL7 CDR PRE-CONST STRTGC ACQ           WLFL7 CEDAR CIS LONG TERM           WLFL7 CEDAR CIS LONG TERM           WLFL7 CEDAR CIS LONG TERM           WLFL7 CEDAR REVER SETBACK FEAS (Cedar Corridor Plan)           WLFL7 CEDAR R DWNSTREAM 2024 IMPV           WLFL7 CEDAR R TRAIL SITE 2           WLFL7 CEDAR RES FLOOD MITIGATION           WLFL7 CEDAR RES FLOOD MITIGATION           WLFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar	FCD Acqu/Elev FCD Const FCD Const FCD Const Agreement FCD Const FCD Const FCD Acqu/Elev FCD Const	\$4.330.532 \$0 \$1,987,587 \$0 \$0 \$0 \$0 \$0 \$0 \$290,000	\$3,986,708 \$0 \$1,852,687 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$300,000 \$68,302	\$0 \$0 \$134,900 \$0 \$0 \$0 \$0 \$0 \$266,310	\$878,000 \$50,000 \$674,000	\$0 \$0 \$134,900 \$0 \$1,178,000 \$50,000 \$674,000 \$184,612	\$0 \$0 \$0 \$0 \$0 \$0 \$136,000 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$111,267	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$114,605	\$0 \$0 \$100,000 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$800,000 \$800,000	\$0 \$0 \$134,900 \$100,000 \$1,178,000 \$186,000 \$1,474,000 \$184,612		\$35,400,000	\$35,400,000 \$22,000,000 \$1,987,587 \$100,000 \$1,178,000 \$186,000 \$1,474,000 \$208,302 \$14,238,100	Investment Stratecy). Camation. Implement p Renton. Elevate or acc Renton. This siv-year If Washington. Project co Renton. Improve Cedal This emergency action damaged portion. This Erosion and socur have Jam (ELJ #6), within th Renton. Implement pro analysis has identified 1 homes per year. Renton. Capital Investin failure.

k displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will side trail. Potential impact to highway if facility breaches during a major flood. Construction is complete. proximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Scheduled for 2018 construction ilure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to resid study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from ly study to determine the nature and extent or level improvements necessary to control real more an appendix of the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2018 Draft Tol River Channel Migrat d in CIS at \$14.5M-\$16.7M n between the Swiftwater development and the river for the future setback of the Upper Frew Levee is approximately 60 lineal feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The wnstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger n complete ivestment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available. sct will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community acces pleting project initiated 20 years ago by others. Approximately 20 homes removed from high hazard areas within and just upstream and Souci neighborhood. vestment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souc vestment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment vestment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King nage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp. nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. dor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplai . Scheduled for adoption in 2017. vestment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk n funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the nvestment strategy: acquire at-risk homes from willing sellers. neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road. nvestment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road ele ailable. vestment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and In the second s second seco I lineal feet of discontinuous damage and missing toe rock. The levee protects the landward area from flooding and serves as the road e Rd, an access road to the Fall City boat launch. The damaged levee section is immediately adjacent to the Twin Rivers golf course barn, The necessities of the net of the second sec ress chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and down options; study road-raining options; prepare Concept Development Report, analyze and select best options. etment protects a sole access bridge to a residential community (about 70 homes) in the City of Issaquah. The facility was rtopped during the flood resulting in flooding of the low lying Sycamore neighborhood in the City of Issaquah behind the ed erosion may result in damage to the bridge and ongoing flooding to the neighborhood. oject will restore access to one river mile of high quality kokanee salmon habitat and reduce the risk of flooding by reducing sediment he facility could cut off the sole access to one resident (via a private road and bridge over the creek). ent protects three private residences in the City of Issaquah. Erosion of the revetment could result in loss of property and damage to of bank in front of middle property. 70 linear feet (LF) of erosion. 56th 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 er destabilize the steep slope of the landslide and threaten downstream homeowners e near-, mid-, and long-term capital projects for Flood Control District funding along the Sammamish River. and stabilize two short sections of the right riverbank near 1-405 to protect the regional Sammamish River rail. Work is being coordinate mitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to 1-405 mining win be required as work win be below Or two pussion opposited beasenies, win be required into two Dor and Triwy due to redo-on is targeted for summer 2016 and will likely require declouing trail users to adjacent roads. or Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammanish while maintaining mish River flood control performance and enhancing habitat. The project will reconfigure the Sammanish transition zone to ensure ance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including nts such as variable depth pools, cold water supplementation, and other elements itemized in the motion. Project costs will be updated In is complete in December 2018. vondale Rd from an embankment that has been scoured by floodwaters from Bear Creek. soding during high-intensity storm events along Factoria Boulevard, a major transportation corridor within the City of Bellevue. These relia is down in the store of the st ed in frequency and are anticipated to be even more frequent in the future as a result of climate change. I feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis tr itons to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the onveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Interested by City of Bellevue. Expenditure forecast to be updated based on unrent project schedule. mmended by City of Bellevue. Expenditure forecast to be updated based on current project schedule. mmended in the May Creek Basin Plan, two sediment trap facilities will be constructed on May Creek tributaries (Cabbage and Country ment loading. FCD funding is for initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future 20 funding is for permitting and design of a sediment facility. Itilies, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank -we name merici biol-future area. ur next major high-flow event. and critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage season/likelihood increasing J seasof interimous increasing. D prevent flooding of Bvers Road, which is the sole access/eqress for numerous residences along the Cedar River. will acquire strategic real estate upon which several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control District capi nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee couire highest risk and repetitive loss properties from willing sellers. Elevate or purchase approximately 2 homes each year. flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake complete. Closeout in 2020 dar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay on will armor up to 300 feet river bank and construct a buried revetment to stabilize the bank and prevent further erosion to the mos This emergency action and the subsequent extension are upstream of the CRT 2 revetment in an area referred to as "zone B." have resulted in loss of upper ballast, dislodging of key logs, shearing of piles, and damage to hardware connections, to an Engineered Log the Cedar Rapids reach. rojects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. Project K on the CIS: Risk ed 53 homes as high risk from flooding and channel migration, but which are not mitigated by projects. Elevate or purchase approximately 2 estment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank

will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016. ovements necessary to satisfy levee certification engineering recommendations. ave resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined es, likely to fail into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility,

matrix																6-Year CIP				Commonte
							2020	2010		2020	2021	2022	2022	2024	2025	Total	CIE	CIE	Droiset Life	Comments
	No.	Title	Basin	Type of project															Total	
III ALVA CALCURAGE     Gen     A.V.     A.V. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>season/likelihood incre</td></td<>																				season/likelihood incre
						\$0 \$0		\$0 \$0			\$143,000 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$193,000 \$50,000				The main channel has
																				capacity for flood stora
Norway     Norway </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0</td> <td>1-</td> <td>++</td> <td></td> <td>\$0</td> <td>\$0</td> <td></td> <td></td> <td></td> <td></td> <td>Renton. Capital Invest</td>										\$0	1-	++		\$0	\$0					Renton. Capital Invest
Normal control         No.         No.        No.         No.        <			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	acquire up to 5 proper Issaquah. Construct in
	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	Hobart Road SE and S Renton. Capital Invest
	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	construction of side ch
	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	infrastructure modifica
Image:	117		Cedar	ECD 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	revetment; remove po
Normal way         Normal							\$1.470.000		\$756.000						\$0					Renton. To address a
Displand							¢1,110,000		<i></i>			\$0	÷*	\$0	\$0					Renton. Design and ir
D         Diametric Diametri Diametri Diametric Diametri Diametric Diametric Diametric Diametr												40 ¢0	ψŪ		40 80					Renton. Capital Inves
D         Description         Description <thdescription< th=""> <thdescr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>**</td><td>ψu</td><td>**</td><td>\$U</td><td>\$U</td><td></td><td></td><td></td><td></td><td>Critical facilities (Uti</td></thdescr<></thdescription<>											**	ψu	**	\$U	\$U					Critical facilities (Uti
	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	Renton. This project r
	123	WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Acqu/Elev	\$5,231,042	\$4,378,048		\$852,994		\$852,994	\$0	\$0	\$0	\$0	\$0	\$852,994			\$5,231,042	design for potential le portion of scope is co
Index         Index <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Renton. Conduct feas drainage infrastructure</td></th<>																				Renton. Conduct feas drainage infrastructure
D         D			Cedar	FCD Const					\$4,485,043		\$0 \$17,621,435	\$0 \$4,463,445	\$0 \$4,940,367	\$0 \$3,541,720	\$0 \$3,932,358					design.
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>																				
No         State         Manual																				Kent. Floodwall constr property acquisition ar
Normal and the second of the second	128	WI ELS BRISCOE I EVEE 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	FCD 2016-20 Section
No         No<							\$1 926 876		(\$300.000)		1-	++	÷*	\$0						Renton. This project w
No.         Protect         Pr							\$1,920,070													Renton. This project w
Image: series in the			010011		ψũ	÷÷.	60.040.400	¥.=	\$350,000			\$3,762,001		\$3,453,157						Renton. This project w
No         No<						\$1,518,227						\$0	ψŪ	\$0						Renton. This project w
30000000000000000000000000						\$0		**						\$12,074						Black Diamond: Remo
No.         No. <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0</td> <td>\$291,500</td> <td></td> <td></td> <td></td> <td></td> <td>ψu</td> <td></td> <td>\$0</td> <td>÷-</td> <td></td> <td></td> <td></td> <td></td> <td>Kent. This project will</td>						\$0	\$291,500					ψu		\$0	÷-					Kent. This project will
No.         District State S	134	WLFL8 DESIMONE MAJOR REPAIR	Green	FCD Const	\$0	\$0		\$0	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000			\$80,000	Only the conditions as Damage increases v
Image: 10 marries         Same         Same <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0 \$90.891</td> <td>\$207.314</td> <td>\$0 \$109.109</td> <td></td> <td></td> <td></td> <td></td> <td>\$0 \$0</td> <td>\$0 \$0</td> <td>\$0 \$0</td> <td></td> <td></td> <td></td> <td></td> <td></td>						\$0 \$90.891	\$207.314	\$0 \$109.109					\$0 \$0	\$0 \$0	\$0 \$0					
Image: Normal sector         Image: No	137	WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/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				Tukwila. This project v
NAME         NAME <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Auburn. Improve SE (</td></th<>																				Auburn. Improve SE (
INDECAS DEPENDENCIAL															**					Auburn. This project w
International and another and a strate international and a strate internationa strate international and a strate international and a	<u>139</u>	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	
No.14 Hold BREFAD SETACC. 2011         Open Market Set Set Set Set Set Set Set Set Set S	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	County landmark.
HI         MILL         Desc.         Agement         54.78.05         Stable 50																				24.46-24.72) to a mor
In Partial High And Park Park         Agreement         590,000         54,000         511,000         520,000         500,000	141	WLFL8 HSB BREDA 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	
12         ALP article USDACCY REALDAMENT         Green         Agreement         540000         540000         540000         540000         540000         540000         540000         54000000         54000000         54000000         54000000         54000000000000000000000000000000000000																				USACE due to a slope
Line         Alge entert         Specifie																				Puget Sound Energy f
Image: series of the	440		0		¢100.000	¢1.011	¢140.400	\$005 750		6544 004	<b>6</b> 0 000 000	¢704.000	<b>6</b> 0	<b>6</b> 0	<b>6</b> 0	<b>6</b> 0 040 700				of major modification
143         WLR LA ISB SURGING HOME SETRACK         Green         FCD Cord         50         50         50         50         500000         500         50         50         500000         500000         500         50         500000         50         500000         50         50         500000         50         500000         50         50         500000         50         50         500000         50         50         500000         50         50         50         500000         50        50        50        5	142		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 in
15.         Wirklarkes         Green         FCD Const         50         50         51 </td <td></td> <td>millions of dollars in da</td>																				millions of dollars in da
14         VLPLA INTERIMS WIP MPLEMENTATION         Genes         FCD Const         \$\$55,000         \$\$51,25         \$\$50         \$\$50         \$\$51,250,000         \$\$50,0000         \$\$50,0000         \$\$50,000																				steepened slopes from drawdown of 1. 01 at
How PLB LONES LEVER RESTORATION         Green         Agreement         S0         \$1,85,000         \$0         \$1,85,000         \$0						÷÷.		¥.=		φu					÷-					Kent. Coordination an
146         HUELBLOWER RUSSELL ACQ KENT         Green         Agreement         \$1/23.68         (\$1/00/12)         \$100/12         \$10			Green			\$83,675		\$1,325				\$0		ţ.	\$0					Contribute the partial
Has         Unit Russel Leve EstraAck         Green         FCD Const         \$17,462,534         \$16,6,475         \$26,647,05         \$394,069         \$12,29,03         \$4,116,794         \$6,358,962         \$12,2710         \$0         \$0         \$23,413,389         \$33,923,884         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,894         \$33,923,923,894         \$33,923,923,894         \$33,923,923,923,923,923,923,923,923,923,9						\$0 \$1,123,668	\$1,850,000	\$0 (\$100,012)	\$100,012	\$1,850,000 \$0		\$0 \$0		ψŪ	\$0 \$0				\$1,123,668	Kent. Acquisitions by
Hat         WERLB LWR RUSSELL LEVEE SETBACK         Green         FCD Const         \$17.46,253         \$16.616,475         \$26.447.05         \$946.059         \$12.924.903         \$4.116,794         \$6.585.982         \$12.7.0         \$0         \$0         \$23.922.84         [7.65 (c32.01 s))         \$29.922.84         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923         \$29.923	147	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	FCD Const	\$1,743,249	\$329,299		\$1,413,950		\$1,413,950	\$0	\$0	\$0	\$0	\$0	\$1,413,950				Kent. Lower Green Ri Kent. Remove and rep
14         VLFLB MLWAUKEE LEVEE #2-KENT         Green         Agreement         \$19,400,00         \$18,81,599         \$18,891,599         \$0         \$0         \$0         \$0         \$18,981,599         \$10,981,509         \$1	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				17.85 (S 212th St) and Increased expenditure
150         UPLEA NEWALKUM CR FLODD CONVEYANCE RESTORATION         Green         Agreement         50         Sector         Sector        <			Green		\$19,400,000	\$418,401		\$18,981,599		\$18,981,599	\$0	\$0	\$0	\$0	\$0	\$18,981,599				Kent. Prepare an anal
151       WLFLB OLD JEFFS FARM REVETMENT       Green       FCD Const       \$\$86,802       \$\$30,1921       \$\$50,525       \$\$52,4881       \$\$50,000       \$\$75,406       \$\$31,4921       \$\$81,863       \$\$0       \$0       \$0       \$31,398,079       \$\$30,000       \$ssumed as a place         153       WLFLB RUSSELL RD UPPER KENT       Green       Agreement       \$6,082,173       \$6,065,056       \$17,117       \$0       \$0       \$0       \$0       \$17,117       \$0       \$0       \$0       \$17,117       \$0       \$0       \$0       \$0       \$17,117       \$0       \$0       \$0       \$17,117       \$0       \$0       \$0       \$17,117       \$0       \$0       \$0       \$10       \$1,99,000       \$11,91,000       \$11,91,000       \$10,91,000	150	WLFL8 NEWAUKUM CR FLOOD CONVEYANCE RESTORATION	Green		\$0	\$0	\$65,000	\$0		\$65,000	\$0	\$0	\$0	\$0	\$0	\$65,000			\$65,000	Enumclaw: An unders
12         WELB RUSSELL RD UPPER KENT         Green         Agreement         \$6,082,173         \$6,085,056         \$17,117         \$17,117         \$0         \$0         \$0         \$0         \$10         \$11,117         \$17,117         \$0         \$0         \$0         \$0         \$10         \$11,117         \$	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	assumed as a placeho Kent. Project is to imp
153         WLFL8 S 106TH ST DRAINAGE IMPVNNT         Green         Agreement         \$0         \$0         \$451,000         \$0         \$0         \$0         \$0         \$0         \$451,000         \$0         \$451,000         \$0<	152	WI FL& 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	These segments of the
155         WLFL8 TITUS PIT RVTMNT 2018 REPAIR         Green         Agreement         \$250,000         \$167,738         \$82,262         \$82,262         \$0         \$0         \$0         \$0         \$82,262         \$0         Retr. Repair of the reventenct.         reventenct protects           156         WLFL8 TUK REVETMNT 2019 REPAIR         Green         FCD Const         \$500,000         \$226,000         \$269,939         \$0         \$0         \$0         \$0         \$269,939         \$0 <td>153</td> <td>WLFL8 S 106TH ST DRAINAGE IMPVMNT</td> <td>Green</td> <td>Agreement</td> <td>\$0</td> <td>\$0</td> <td></td> <td>\$0</td> <td></td> <td>\$451,000</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td></td> <td>\$0</td> <td>\$451,000</td> <td></td> <td></td> <td>\$451,000</td> <td>Burien: Replace an ex</td>	153	WLFL8 S 106TH ST DRAINAGE IMPVMNT	Green	Agreement	\$0	\$0		\$0		\$451,000	\$0	\$0	\$0		\$0	\$451,000			\$451,000	Burien: Replace an ex
156         WLFL8 TUK REVETMNT 2019 REPAIR         Green         FCD Const         \$500,000         \$220,001         \$269,939         \$0         \$0         \$0         \$0         \$269,939         \$0         \$0         \$0         \$269,939         \$0         \$0         \$0         \$269,939         \$0							ψ1, <del>11</del> 3,000					ψ <u>2</u> 0,111,000								Kent. Repair of the re-
157         WLFL8 TUK-205 GUNTER FLOODWALL         Green         FCD Const         \$0         \$0         \$2,000,00         \$16,250,000         \$16,250,000         \$0         \$0         \$34,500,000         \$34,500,000         Tukwila. New proje           158         WLFL8 TUK-205 GACO REPAIR         Green         FCD Const         \$0         \$0         \$0         \$16,250,000         \$16,250,000         \$0         \$0         \$34,500,000         \$34,500,000         Tukwila. New proje           158         WLFL8 TUK-205 RATOLO FLOODWALL         Green         FCD Const         \$0         \$0         \$0         \$1,500,000         \$0         \$0         \$0         \$1,800,000         Tukwila. New proje           159         WLFL8 TUK-205 RATOLO FLOODWALL         Green         Agreement         \$15,732,418         \$858,822         \$14,873,596         \$0											1-	\$U		ţ.	\$U					Tukwila. Erosion and
Image: Number of the second							\$2,000,000					ψu		ţ0	ψü					Tukwila. New project
158       WLFL205 RATOLO FLOODWALL       Green       FCD Const       \$0	157	WERLO TUR-205 GUNTER FLOODWALL	Green	FUD Const	\$0	\$0	\$∠,000,000	\$0		\$∠,000,000	ຈາຈ,250,000	ຈາວ,250,000	\$0	\$0	\$0	\$34,500,000			\$34,5UU,UU0	Tukwila. New project t
159 WLFL8 TUK-205 USACE GACO REPAIR Green Agreement \$15,732,418 \$858,822 \$14,873,596 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$14,873,596 \$15,732,418	158	WLFL8 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	during the project desi
159  WLFL8 TUK-205 USACE GACO REPAIR         Green         Agreement         \$15,732,418         \$858,822         \$14,873,596         \$0         \$0         \$0         \$14,873,596         \$14,87																				Tukwila. US Army Cor interim SWIF. The US
	159 160	WLFL8 TUK-205 USACE GACO REPAIR WLFLS PUGET WAY CULVERT									\$0 \$0		\$0 \$0	\$0 \$0					\$15,732,418 \$1,800,000	Seattle. This project w

ties, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood reasing. This damage is to the CRT 2 revetment downstream of the emergency repair site listed separately; area is referred to as "Zone

s avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE. State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the rage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds Here and provide conceptionary environmental improvements. The project has constrained forming from the City of Seattle. Also fund the Herzman project and Riverhend. stment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment

rties. tersection improvements which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaqu

SE May Valley Road. tment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee stment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jar hannel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023. ment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantity economic damage potential 2) det ations to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis. stiment Strategy: Raise in place or setback Jones Road; excavate and stabilizer right bank to increase conveyance capacity, reinforce one orbiton of another revertient; acquire 8 at risk properties Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or

a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert I-raising option; and analyze upstream and downstream retention/detention impacts. mplement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year

Implement phase 1 improvements to Madsen Creek to achieve 100-year revention protection for properties south of SR 169. for properties north of SR 169. Isment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the ding results of landslide hazard analysis, FCD will consider options for a project.

ilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed - damage likely to occur next major high-flow event.

represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering svee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD

sibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local re, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary

truction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for ind riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out with Kent expires in 2018. will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the

acement of the trash rake system, and replacement of the screen spray system. will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage

will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which ru y than the other, larger pump engines. will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control

ns, oilers and hoists. ove the three 6-foot diameter culverts where Lake Sawyer flows into Covington Creek and replace with a bridge to eliminate obstructions we passage for migrating salmon. I assess the damaged section of Desimone Levee between the two new floodwall segments, and recommend possible options for repair

ssessment is proposed for funding.

rulnerability of the heavily used regional Green River trail and regional soccer complex (Starfire) and Tukwila Park. Erosion ility to trail and soccer fields.

have 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements. will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to es for those projects. Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a

will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain / Corps of Engineers PL84-99 program. The current mitigation effort is the Teufel project scheduled for 2018 construction.

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

implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe Bend Levee at the Breda reach (R re stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain nnual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.

implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a 'Minimally acceptable' rating by the e 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 containmen at 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 Tacility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 at 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 to the federal levee so that the City of Kent's secondary containment levee can be incorporated into the federal levee project.

implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened and does not meet curren Inspendent internet with adopted by board of objectives. The constant's non-enteened is to be extended and use into the clause term of 5. The economic consequences of level failure or overtopping to the lower Green River valley is extensive and could cause tens of damage. This capital project area contains a "Minimally Acceptable' deficiency by the US Army Corps of Engineers at RM 25. 5 (over m 1. 25 to 1. 71:11 / for 225 feet). The Horseshoe Bend Levee Centification Report calculated a Factor of Safety (FOS) value for rapid tr RM 25. 57 (Section F). This is barely above the minimum FOS (1. 0) from the US Army Corps of Engineers manual.

nd planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included

cost of a repair (\$500,000) to a \$5 million levee setback project. By relocating the levee, flood risks as wellas future repair costs for the are reduced.

the City of Kent for the Lower Russell levee setback project

the dry of Relif for the cower Rdssell levels settadk project. tiver Corridor Planning and Environmental Impact Statement. splace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river n driver mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat. e authority to match interim SWIF adopted by Board of Supervisors. Ilysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secur

older. prove the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. ne Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.

xisting damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding. s increased level of protection to 1.5 miles of Lower Green River Corridor. Alternative selected by Executive Committee. cent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road. slumping of Tukwila Trail revetment caused by the recent Green River flood resulted in approximately 200 feet of damage to the

to implement interim SWIF adopted by Board of Supervisors. This project will construct a facility to bring this levee segment in complian to implement interim owner adopted by Data of opportants, may project will construct a reality to onling in a rote of adjust in compare iterments for structural stability and raise the levee to roughly the 500 year event. to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwall and sloped embankment to nesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized interactions. sign phase.

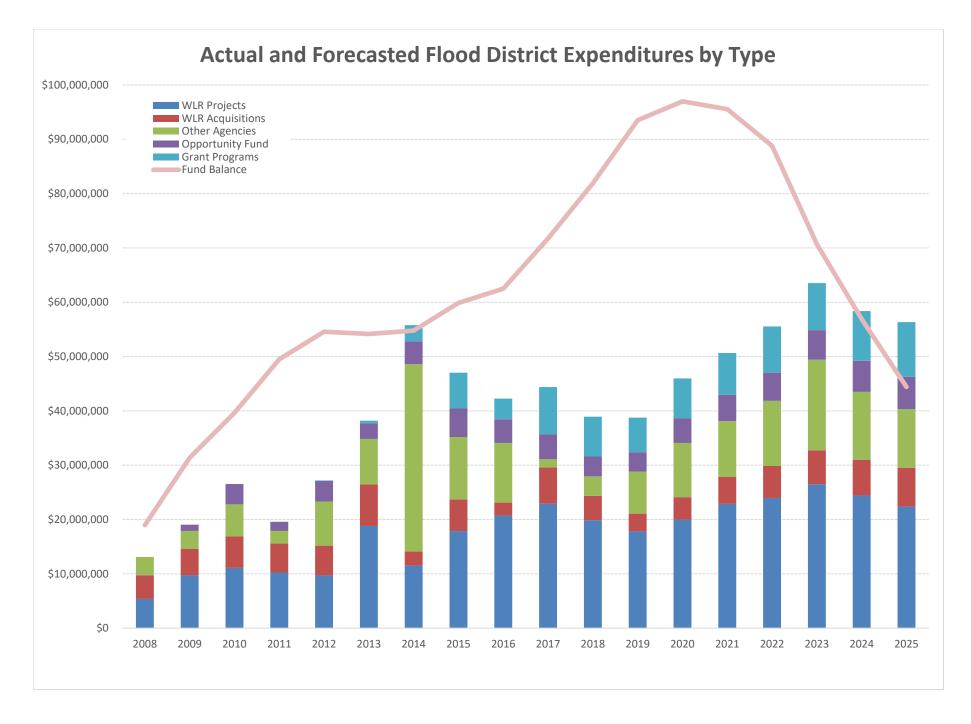
rps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted SACE will share remaining 2/3 of the cost; this allocation is the local share of 1/3 of total cost. Requires cooperation agreement.

will replace an aging and undersized creek culvert under Puget Way SW in Seattle.

No. Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expendiure	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
										\$0								Seattle. The South Park
161 WLFLS 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	
162 WLFLS SOUTH PARK PUMPSTATION	0		\$1,787.004	\$1 787 029	\$4,717,996	(\$25)		\$4 717 971	<b>\$</b> 0	**	60	<b>6</b> 0	\$0	\$4,717,971			\$0 F05 000	Seattle. Cost-share cons schedule. Implemented b
162 WEFES SOUTH PARK POMPSTATION 163 Green-Duwamish Subtotal	Green	Agreement	\$1,787,004		\$55.025.510	(420)	(\$14,688,649)	\$92,466,382	\$85,855,463	\$76 741 402	\$10,806,094	\$8,565,231	\$5,092,073				\$342,123,824	schedule. Implemented i
165 Green-Duwannish Subtotai			\$114,720,009	\$62,597,069	\$55,025,510	\$52,129,521	(\$14,000,049)	φ92,400,30Z	φo0,o00,400	\$70,741,492	\$10,000,094	\$0,000,231	\$5,092,073	\$279,520,755			\$34Z, 1Z3,0Z4	
165		1																
166 WLFL9 212TH AVE SE @ SR 164 FLD IMPRVMNT	White	Agreement	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$190.000	\$190.000			\$190.000	Enumclaw, Improve the
167 WLFL9 212TH AVE SE MITIGATION	White	Agreement	\$0	\$0		\$0		\$29,000	\$36.000								\$65.000	
																	1	Enumclaw. Park is split
168 WLFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev	\$100,000	\$0		\$100,000		\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000			\$100,000	
169 WLFL9 BUTTE AVE FLOOD MITIGATION	White	Agreement	\$470,000	\$226,633		\$243,367	(\$243,367)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$226,633	
																		Tukwila. Reduces flood
170 WLFL9 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	value), improves sedime
																		Pacific. Construct a new
171 WLFL9 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	Estates neighborhood.
																		Greenwater. In mid-2018 Highway 410. Subseque
172 WLFL9 SLIPPERY CREEK ACQ	White	FCD Acqu/Elev	\$180,000	\$115,563 \$0		\$64,437 \$0		\$64,437 \$0	\$0	\$0	\$0	\$0	\$0 \$0	\$64,437				abatement at a remote a
173 WLFL9 STREAM #10.0048 DS CULVERT 174 WLFL9 STREAM #10.0048 US CULVERT	White	Agreement	\$0 \$190.000	\$0 \$148.566	\$400.000	\$0 \$41.434		\$0 \$441.434	\$150,000 \$100,000	\$1,500,000	\$0 \$0		\$0 \$0				\$1,650,000	
174 WLFL9 STREAM #10.0048 US CULVERT	white	Agreement	\$190,000	\$148,566	\$400,000	\$41,434		\$441,434	\$100,000	\$U	\$0	20	\$U	\$541,434			2030,000	Auburn. This project will Auburn. Loss of facing r
175 WLFL9 STUCK R DR 2019 REPAIR	White	FCD Const	\$200.000	\$98.517	\$446.374	\$101.483		\$547.857	¢0.	\$0	\$0	<b>5</b> 0	\$0	\$547.857			\$646 074	face supporting the rock
175 WEFES STOCK R DR 2019 REPAIR	write	FCD Const	\$200,000	\$37,313,885	\$1.171.209	\$1.673.690	\$158.030		\$1.259.966	ψυ	ψŪ	\$136.895	\$190.000	\$21,770,533			\$59.084.418	Tace supporting the rock
177			400,001,010	\$57,515,005	φ1,171,205	\$1,075,050	\$130,030	φ0,002,020	ψ1,200,000	\$0,072,700	\$0,500,050	ψ100,000	\$150,000	ψ21,110,000			<b>\$33,004,410</b>	1
178																		
179 WLFLG COASTAL EROSION/FLOODING GRANTS		Grant	\$0	\$0	\$0	\$0		\$0						\$0			\$0	Focuses on mapped coa relocating infrastructure
		Ordine	ψu	<del>\$</del> 0	ψŬ	ψŪ		ψŪ						ψυ			<del>ç</del> u	Reduces flooding and in
180 WLFLG CULVERT & FISH PASSAGE GRANTS		Grant	\$0	\$0	\$0	\$0		\$0						\$0			\$0	focus on accelerating re
181 WLFLG 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				Competitive grant progra
182 WLFLG URBAN STREAMS GRANTS		Grant	\$0	\$0	\$0	\$0		\$0						\$0				Invests in urban flooding
183 WLFLG 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
184 WLFLM 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 pro
185 WLFLO 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 Co
186 WLFLX 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
187 WLFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	\$500,000	\$3,354		\$496,646		\$496,646	\$0	\$0	\$0	\$0	\$0	\$496,646				Stockpile role for future
188 WLFLX FLOOD EMERGENCY CONTGNCY	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 emerge
189 Countywide Subtotal			\$110,959,023	\$79,328,285	\$22,021,794	\$31,630,737	\$1,349,833	\$55,002,364	\$20,418,107	\$20,871,391	\$21,443,665	\$21,877,337	\$22,187,083	\$161,799,947			\$241,128,233	
190																		
191 Grand Total			\$411,753,921	\$298,462,792	\$94,984,555	\$113,291,131	(\$5,728,248)	\$202,547,438	\$139,738,557	\$129,512,310	\$59,253,571	\$61,247,524	\$58,726,089	\$651,025,488			#############	1

rk Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. ovements will work in conjunction with the Pump Station.
nstruction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project d by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
e drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way.
t by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
Il reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems rom high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to
dred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to
d elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million content nent storage and enhances habitat.
w levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River
18 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of ent site visits identified multiple unpermitted structures and a well; additional funding necessary to complete demolition and asbestos and inaccessible location.
ill analyze culvert replacement and road-raising options and implement the preferred option.
ill analyze culvert replacement and road-raising options and implement the preferred option.
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 ck remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
oastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retrofitting or e out of flood-prone areas to reduce risk.
improves fish passage and water quality by replacing and/or removing culverts or other blockages to fish passage. This program will replacement or removal of culverts that address both significant flood risks to critical infrastructure, and restore fish passage.
ram for flood reduction projects. Increases as a proportion of total FCD tax revenue.
ng projects that reduce risks to people, property, and public infrastructure.
d Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
rojects to determine effectiveness and identify project design improvements.
county jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
d to the FCD's capital fund.

re flood damage repairs. rgency response actions during a flood event.



## FCD Board - Blue folder

J une 24, 2020

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

June 22, 2020

	2019	2020	2020	2021	2022	2023	2024	2025
	Actual	Adopted	Revised	Projected	Projected	Projected	Projected	Projected
Beginning Balance	81,668,684	89,876,187	93,504,495	96,977,354	95,545,442	88,797,785	70,690,855	56,892,512
Revenue								
Flood District								
Flood District Levy <sup>1</sup>	57,896,370	58,962,538	58,241,513	58,403,522	58,469,952	58,588,758	58,717,381	58,860,653
Interest Earnings <sup>2</sup>	2,243,703	1,855,726	2,568,871	2,664,282	2,624,943	2,439,563	1,942,107	1,563,021
Miscellaneous Revenue <sup>3</sup>	267,338	300,000	270,000	270,000	270,000	270,000	270,000	270,000
King County								
Inter-County River Improvement <sup>4</sup>	48,100	45,000	45,000	0	0	0	0	0
Grants <sup>10</sup>	718,830	2,869,028	2,869,028	2,869,028	2,869,028	0	0	0
Miscellaneous Revenue <sup>5</sup>	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	64,306,832	64,333,922	61,398,320	61,029,487	60,793,674
Expenditure								
District Administration <sup>6</sup> Other District Expenditures	(773,881)	(913,238)	(913,238)	(940,635)	(968,854)	(968,854)	(997,920)	(997,920)
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)	(45,969,105)	(50,646,723)	(55,536,797)	(63,523,191)	(58,366,309)	(56,341,820)
Total Expenditure	(49,431,150)	(79,024,594)	(60,621,553)	(65,738,744)	(71,081,579)	(79,505,251)	(74,827,831)	(73,267,250)
Ending Fund Balance (Cash)	93,504,495	75,058,885	96,977,354	95,545,442	88,797,785	70,690,855	56,892,512	44,418,936
Target Fund Balance	0	0	0	0	0	0	0	0
Budgetary Carryover Reserves	(103,956,672)	(132,625,036)	(156,578,334)	(245,670,168)	(319,645,680)	(315,376,061)	(318,257,276)	(320,641,545)
Ending Budgetary Fund Balance <sup>9</sup>	(10,452,178)	(57,566,151)	(59,600,979)	(150,124,725)	(230,847,895)	(244,685,206)	(261,364,764)	(276,222,609)

### Notes:

1 Property tax forecast provided by the Office of Economic and Financial Analysis in March, 2018, less undercollection assumption of 1%.

<sup>2</sup> Interest earnings approximated using prior year actuals and increasing by 3% per year.

<sup>3</sup> District miscellaneous revenue due to multiple sources such as state forest sales, private timber harvest tax, unrealized investments, leashold excise taxes, and immaterial corrections from prior years. In 2017 this included \$4M from the sale of the Riverside Business Park in Kent, originally purchased for the Briscoe Levee project, but later deemed unnecesary when the scope of the project changed.

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 Business park, an acquisition under the Briscoe Levee Setback that was ultimately not needed for the project. While this sale could be considered a reduction in project expenditures, governmental accounting rules required it be categorized as a revenue.

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.

<sup>8</sup> The Unreserved Fund Balance is the remaing 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 quantification. The reserve quantities above reflect initial considerations by the District in lieu of more formal direction.

9 The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand the District's total budgetary commitment.

<sup>10</sup> 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**

al Expenditure Detail								
	2019	2020	2020	2021	2022	2023	2024	2024
	Actual	Adopted	Revised	Projected	Projected	Projected	Projected	Projected
FCD Projects New Appropriation	739,781	(42,782,730)	(28,264,989)	(57,253,007)	(67,391,039)	(30,205,780)	(29,682,483)	(20,372,828)
FCD Projects Carryover	(32,817,275)	(16,038,747)	(16,148,408)	(24,427,368)	(58,809,870)	(102,222,736)	(105,942,813)	(111,212,743)
Expenditure Rate	56%	56%	45%	28%	19%	20%	18%	17%
A. RFMS Project Expenditures	(17,813,428)	(32,394,027)	(19,986,029)	(22,870,505)	(23,978,173)	(26,485,703)	(24,412,553)	(22,369,547)
FCD Flood Mitigation New Appropriation	(1,614,371)	(1,866,201)	(9,693,049)	(9,133,722)	(9,811,420)	(7,998,321)	(8,088,271)	(9,699,820)
FCD Flood Mitigation Carryover	(16,485,443)	(12,669,870)	(13,223,472)	(18,791,547)	(22,898,721)	(26,822,316)	(28,552,922)	(30,045,778)
Expenditure Rate	18%	50%	18%	18%	18%	18%	18%	18%
B. RFMS Flood Mitigation Expenditures	(3,270,460)	(7,328,035)	(4, 124,974)	(5,026,549)	(5,887,825)	(6,267,715)	(6,595,415)	(7,154,208)
Other Agency New Appropriation	(30,066,843)	(28,744,062)	(29,706,707)	(54,217,268)	(32,669,385)	(899,605)	(2,810,000)	(7,462,358)
Other Agency Carryover	(30,413,688)	(51,408,451)	(53,485,324)	(73,208,987)	(117,232,155)	(137,909,417)	(122,151,939)	(112,465,745)
Expenditure Rate	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)
Opportunity Fund New Appropriation	(5,889,245)	(6,091,017)	(6,091,017)	(6,255,428)	(6,414,885)	(6,568,517)	(6,720,084)	(6,869,230)
Opportunity Fund Carryover	(14,505,037)	(15,295,712)	(16,535,261)	(18,101,022)	(19,485,160)	(20,720,036)	(21,830,843)	(22,840,741)
Expenditure Rate	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)
Grants New Appropriation	(4,684,168)	(15,500,545)	(15,500,545)	(12,879,132)	(13,225,580)	(13,581,348)	(13,946,687)	(14,321,852)
Grants Carryover	(6,971,932)	(13,955,019)	(13,898,666)	(22,049,408)	(27,244,261)	(31,971,175)	(36,897,544)	(41,692,269)
Expenditure Rate	55%	32%	25%	22%	21%	19%	18%	18%
E. Grant Payments	(6,355,527)	(7,767,774)	(7,349,803)	(7,684,279)	(8,498,667)	(8,654,979)	(9,151,961)	(10,082,542)
Capital Summary - All Expenditures A-F								
Total New Capital Appropriation <sup>11</sup>	(41,514,846)	(94,984,555)	(89,256,307)	(139,738,557)	(129,512,310)	(59,253,571)	(61,247,524)	(58,726,089)
Total Carryover	(101,193,375)	(109,367,799)	(113,291,131)	(156,578,334)	(245,670,168)	(319,645,680)	(315,376,061)	(318,257,276)
Overall Expenditure Rate	27%	32%	23%	17%	15%	17%	15%	15%
Total Capital Expenditure <sup>7</sup>	(38,751,549)	(64,647,146)	(45,969,105)	(50,646,723)	(55,536,797)	(63,523,191)	(58,366,309)	(56,341,820)

Lambert moved. The motion carried.

June 24, 2020 Adding Capacity by Extending Timeline to Hire New Capital Team

Sponsor:

Dave Upthegrove

2

Proposed No.: FCD2020-11.1

### 1 AMENDMENT TO PROPOSED RESOLUTION FCD2020-11.1

2 On page 3, beginning on Line 49, insert:

3 <u>SECTION 6.</u> The Board directs King County water and land resources division to

4 provide a monthly report to the District executive director on the status of recruitment

5 and hiring of all vacant and newly authorized positions funded by the District. If any of

6 the five newly created capital project staff positions remain unfilled by December 31,

7 2020, the District may consider reallocating the Operating Budget to achieve project

8 delivery goals through alternative contracting methods.

9

10 Delete Attachment B, 2020 Reallocation Budget June 22, 2020, and insert Attachment B,

11 2020 Reallocation Budget June 22, 2020.; Delete Attachment D, 2020 Reallocated

12 Capital Budget June 22, 2020, and insert Attachment D, 2020 Reallocated Capital Budget

13 June 22, 2020; Delete Attachment E, 2020-2025 Reallocated Six-Year CIP June 22,

14 2020, and insert, Attachment E, 2020-2025 Reallocated Six-Year CIP June 22, 2020; and

15 Delete Attachment H, 2020-2025 Six-Year CIP Project Allocations + Carryover June 22,

16 2020, and insert 2020-2025 Six-Year CIP Project Allocations + Carryover June 22, 2020.

17

- 18 Effect: Appropriates money to the Black River Pump Station Control Building and
- 19 Old Jeffs Farm Revetment capital projects as a result of increased staffing capacity.

## 2020 Reallocation Budget

## **Attachment B**

June 22, 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	(5,118,248)	203,157,438
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	109,362,003	113,566,131	(5,118,248)	217,809,886
Projected Capital Reserves - Cash Fund Balance <sup>1</sup> Projected Capital Reserves - Budgetary Fund Balance <sup>2</sup>	93,504,495 (10,452,178)			96,702,854 (60,210,979)

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

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

# 2020 Reallocated Capital Budget

Attachment D

June 22, 2020

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$8,786,248	\$5,722,617	\$9,970,641	\$0	\$24,479,506
Cedar River Basin	\$2,932,813	\$6,966,708	\$17,506,737	\$0	\$27,406,257
Green River Basin	\$27,594,639	\$29,128,638	\$36,543,105	\$0	\$93,266,382
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	\$39,594,426	\$45,315,964	\$116,955,119	\$1,291,929	\$203,157,438

### 2020 - 2025 Reallocated Six-Year CIP Attachment E

June 22, 2020

	2020	2019	2020	2020						2020 - 2025
Name	Approved	Carryover	Reallocation	Revised	2021	2022	2023	2024	2025	Total
	<b>*</b> ••••••		0 405	04 470 500				07 400 044	07 004 575	
Snoqualmie River Basin	\$8,933,012	\$12,768,999	2,777,495	24,479,506	14,583,585	18,763,277	13,555,407	27,126,341	27,324,575	125,832,690
Cedar River Basin	\$7,833,030	\$15,088,184	4,485,043	27,406,257	17,621,435	4,463,445	4,940,367	3,541,720	3,932,358	61,905,582
Green River Basin	\$55,025,510	\$52,129,521	(13,888,649)	93,266,382	85,855,463	76,741,492	10,806,094	8,565,231	5,092,073	280,326,735
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	12,879,132	13,225,580	13,581,348	13,946,687	14,321,852	97,353,810
WRIA Grants	\$0	\$0	-	-	-	-	-	-	-	-
Total	\$94,984,555	113,291,131	(5,118,248)	203,157,438	139,738,557	129,512,310	59,253,571	61,247,524	58,726,089	651,635,488

#### 2020 - 2025 Six-Year CIP Project Allocations + Carryover Attachment H

June 22, 2020

#### Capital Investment Strategy Project Grant/External Revenue Awarded Cost Share Contribution to Others New Project - 2019 Revised ted scope based on FCD an

												opuated scope i	ased on FCD app	roveu chanter					
															6-Year CIP				Comments
				2019 Inception to Date	2019 Inception to Date	2020	2019	2020 Reallocation	2020	2021	2022	2023	2024	2025	Total (Including 2019	CIS	CIS	Project Life	
No.	Title	Basin	Type of project	Budget	Expendiure	Adopted	Carryover	Request	Revised	Projected	Projected	Projected	Projected	Projected	Carryover)	Year 7-10	10+ Year	Total	Baring. This project w
	WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	FCD Acqu/Elev	\$1,145,404	\$703,571	(\$456,736)	\$441,833	\$3,634,903	\$3,620,000	\$456,736	\$0	\$0	\$0	\$115,927	\$4,192,663			\$4,896,235	future flood events.
:	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 proje homes and property v
	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				Skykomish. Approxim damage facility.
											ψū			++					Skykomish. This proje
	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqu/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	inundation in some pl Skykomish. Project w
	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	Team.
	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. Revetmen LF (needs verification
	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snog	FCD Const	\$309,028	\$309,686		(\$658)	\$728	\$70	\$0	\$0	\$0	\$0	\$0	\$70			\$309,756	North Bend. Reduce r Road to reduce the fre
		opper Shoq	T CD Const	\$309,028	\$309,000		(\$030)	\$120	\$70	ψυ	φU	φU	40	ψŪ	\$70			\$303,730	North Bend. Cost-sha
	WLFL1 BENDIGO UPR SETBACK N BEND	Upper Snoq	Agreement	\$50,000	\$124		\$49,876		\$49,876	\$0	\$0	\$0	\$0	\$4,200,000	\$4,249,876			\$4,250,000	roadways. Project wo application for the rer
						<b>0</b> 100 501				0000 175									North Bend. This proje
	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	South Fork Snoqualm North Bend. Work wit
10	WLFL1 MF RESIDENTIAL FLD MTGTN WLFL1 MF SNO CORRIDOR IMP	Upper Snoq Upper Snoq	FCD Const FCD Const	\$0 \$954	\$0 \$954	\$120,000	\$0 \$0		\$120,000 \$0	\$525,000 \$1,162,249	\$1,830,000 \$1,196,980	\$1,830,000 \$1,232,889	\$1,830,000 \$377,890	\$2,265,000 \$0	\$8,400,000 \$3,970,008			\$8,400,000	Strategy) North Bend. Placehol
1:	WLFL1 MF SNO CORRIDOR PLAN	Upper Snog	FCD Const	\$1,824,912	\$1,658,993	\$27,585	\$165,919		\$193,504	\$0 \$75,000	\$0	\$0	\$0	\$0	\$193,504			\$1,852,497	North Bend. Middle F
1;	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 North Bend. Replace
																			new culvert will reduc Fork Snoqualmie Rive
	WLFL1 NORMAN CREEK DS CULV	Upper Snog	Agreement	\$724,000	\$722,080		\$1,920		\$1,920	\$0	\$0	\$0	\$0	\$0	\$1,920			\$724,000	flood water once the N
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 North Bend. The North
10	WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snog	Agreement	\$177,742	\$177,742		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$177,742	bridge safe and reliab
13	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 fe alternative risk mitigat
																			Snoqualmie. Repair d
																			Snoqualmie stormwat City's planned "Riverv
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	North Bend. Conduct
19	WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snog	FCD Const	\$0	\$0		\$0		\$0	\$0	\$265,438	\$318,421	\$385,937	\$457,218	\$1,427,014				levee in place / setbad
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 I North Bend. Repair th
2	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	Construction is anticip North Bend. Address
	WLFL1 RIBARY CREEK	Upper Snoq	FCD Const	\$36,492	\$0	\$150,000	\$36,492		\$186,492	\$450,000	\$2,338,618	\$3,223,883	\$0	\$0	\$6,198,993			\$6,198,993	
	WLFL1 SF CIS LONG TERM WLFL1 SF CIS MED TERM	Upper Snoq Upper Snoq	FCD Const FCD Const	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$47,200,000	\$57,100,000		Implement projects id Implement projects id
2	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snog	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
																			North Bend. Total brea
2	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	erosion could threater North Bend. Between
																			feet of river bank. Act
2	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snog	FCD Const	\$51,090	\$47,340	\$300,000	\$3,750		\$303,750	\$360,910	\$0	\$0	\$0	\$0	\$664,660			\$712,000	failure. Failure of this
																			North Bend. Repair ap View Levee is a relativ
2	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	scheduled for 2018 co
																			North Bend. Placehold conveyance and redu
2	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snog	FCD Const	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	evaluated in the SF S
3	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 current bridge does no
																			Snoqualmie. This proj channel migration dar
3	WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/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	Riverwalk project.
3	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 e future assistance from
	WLFL2 264TH AVE NE AT SR 202 FLD IMPRVMNT	Lower Snog	Agreement	\$0	,		\$0		\$0	\$0	\$0	\$0		\$540,000	\$540,000				
	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMNT WLFL2 CITY SNOQ HOME ELEVATIONS	Lower Snoq Lower Snoq	Agreement Agreement	\$0 \$0		\$1,118,000	\$0 \$0	\$350,000	\$0 \$1,468,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$500,000 \$0	\$500,000 \$1,468,000			\$1,468,000	City of Snoqualmie: E
																			Duvall. Repair approx the Snoqualmie Valley
3	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	would severely limit a
3	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	Duvall. These two brid loosing approaches d
2	WI FL2 FARM FLOOD TSK FORCE IMP	Lower Snog	FCD Const	\$979,803	\$829,335		\$150,468		\$150,468	\$115,214	\$118,670	\$122,230	\$125,897	\$129,674	\$762,153			\$1.501.499	Carnation. This project withstand the impacts
<u>_</u>							\$130,400				\$110,070								Duvall. Strengthen the
	WLFL2 FISH HATCHERY RD BR #61B REPAIR WLFL2 JOY 2020 REPAIR	Lower Snoq Lower Snoq	Agreement FCD Const	\$0	\$0	\$80,000	\$0 \$0	\$100,000	\$80,000 \$100,000	\$620,000 \$3,620,000	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$700,000 \$3,720,000				protect it against majo New capital constru-
								\$100,000		\$0,020,000									Fall City. The river is s
	WLFL2 L SNO 2019 BANK REPAIR WLFL2 L SNO REP LOSS MITGTION	Lower Snoq Lower Snoq	Agreement FCD Acqu/Elev	\$2,200,000 \$1,695,671	\$1,111,942 \$1,279,413		\$1,088,058 \$416,258		\$1,088,058 \$416,258	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,088,058 \$416,258				MSE wall to prevent u Carnation. Funding as
	WLFL2 L SNO SCOUR REPAIR 2017	Lower Snoq		\$150,000	\$142,411		\$7,589		\$7,589	\$0	\$0	\$0		\$0	\$7,589				Fall City. The foundati Bridge crosses the Sn
4.	WEFEZ E SNO SCOUR REPAIR 2017	Lower Shod	Agreement	\$150,000	\$142,411		\$7,589		\$7,589	\$U	\$U	\$0	\$U	\$U	\$7,589			\$150,000	Fall City. Cost-shared
4	WLFL2 L SNO/ALDAIR CORRDOR 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	Projects reduce flood
					******		40.0000			÷-	++			**					Carnation. This project
4	WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snog	FCD Acqu/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			\$5,535,677	
40	WLFL2 MUD CREEK SEDIMENT FACILITY WLFL2 SE 19TH WAY REVETMENT	Lower Snoq Lower Snoq	Agreement FCD Const	\$0 \$1,916,294	\$0 \$1,835,637		\$0 \$80,657		\$432,000 \$80,657	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$432,000 \$80,657			\$432,000	Snoqualmie: Design a Fall City. Rebuild reve
																			Duvall. Large capital p
4	WLFL2 SINNEMA QUAALE 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	Valley Trail. Construct Duvall. Regional flood
	WLFL2 SNOQUALMIE VALLEY FEAS	Lower Snoq	Agreement	\$0	\$0		\$0		\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$500,000				be the most cost effect
	WLFL2 STOSSEL REVETMENT	Lower Snoq	FCD Const	\$0	\$0	\$50,000	\$0	\$50,000	\$100,000	\$150,000	\$170,000	\$500,000	\$2,500,000	\$0	\$3,420,000			\$3,420,000	CarnationPlaceholder Carnation. This compl
5	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	\$1,107,886	\$970,781		\$137,105		\$137,105	\$0	\$0	\$0	\$0	\$0	\$137,105			\$1,107,886	Revetment on the Sno
		1	1										1	1		1	1	1	Carnation. This project
	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	River channel threate

ct will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during

project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding o rty within the Town of Skykomish. ximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely

roject will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as

places. t will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry. Will likely be implemented by the Strike ment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150

tion). Failure has occurred previously in this section of revenment receiver instance section of revenue address receiver a approximately retriever in the section of revenues in the section of revenues and the section of reven

e frequency of community isolation caused by floodwaters overtopping these roadways. share of \$8.4M levee setback project. The overtops at a 20-year or greater flood, inundating undeveloped property, railway lines and would reconnect 25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant

e remaining \$4.2 million project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the ualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan. with willing sellers to acquire eighteen homes at risk from channel migration along the Middle Fork (Project E in the draft Capital Investmer

holder for corridor plan implementation project(s) e Fork Snoqualmie Corridor Planning, scheduled for completion in 2018

rade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards.

ce two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The duce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this he North Fork has overtopped the adjacent levees.

ve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert. orth Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the liable during a flood, it is important to protect the piers and abutments from scour failure. e feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or

the reasoning actory to magnet the magnet the magnet the second water outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the verwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2020.

duct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or rais atback levee / gravel removal / home elevations. rate low section of Reinig Rd to alleviate flooding that blocks roadway.

three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet.

titicipated in 2020. ess flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.

s identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee is dentified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. we deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired segment of levee in pla

reach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued

saten 428th Ave embankment or bridge. ereen 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential this facility could result in damage to a heavily used county road (428th Ave SE). Scheduled for 2018 construction.

r approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. S latively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding. Project

8 construction. holder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve aduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being F Snoqualmie Corridor Plan. re a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the

are a concept of requirement report (or ) to analyze and socie of spannangment representation of the analyge and used reading option as the es not provide enough hydraulic opening due to the transport of sediments and water overdrops the approaches during floods. project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and n damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the

e eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive

e elevent sount Point Structuralitie reversingent interstantiatus on the So Anny Colps of Engineers PL 64-99 program rom the Corps in the event of flood damage to the levees. e flooding on this sole access road by replacing the existing culverts and raising the roadway to elminate over-topping. to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.

e: Elevate several flood-prone homes in the areas around Walnut St and Northern St. roximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of

alley downstream of Duvall. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which nit access to the downstream property owners during or following a flood event. bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent

s during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D. oject provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better

acts of flooding. Specific project actions include farm pads and levation or flood profing of agricultural structures. In the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.

major hood events in the future, and restore the eroded creek bed and interpant profile to outre the brodge degainst scour. struction project to protect SR 169 and critical public infrastructure in Renton. er is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend ent undercutting of the riverbank and roadway. ng as possible local match for FEMA grants to elevate or acquire at-risk structures. Indation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing.

e Snoqualme River at Dural and is the city's primary route. ared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualr lood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.

pject provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snogualmie floodplain to help and the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural

on and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site

revetment to protect road access to high value agricultural operations and lands. Construction is complete. ital project to repair 1000 linear feet of the Sinnema Quaale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoq uction is complete. ooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley with chronic flood issues impacting over 25,000 daily drivers.

der costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE. mpleted project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank Snoqualmie River, downstream of the City of Carnation. sject will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqu

atens to undermine the Seattle Public Utilities water supply line at this location south of Duvall. Construction is complete.

). Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expendiure	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
	<b>T</b> -14	500 0	¢000.000	¢100.000		\$101.100		\$404 400	<b>*</b> 0	¢0		\$0	•	¢101.100			\$000.000	Carnation. Face rock di relative to upstream and
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	cut off popular riverside Carnation. Repair appro
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	Missing face and toe ro Carnation. Facility failu
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	and property. Carnation. Feasibility s
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	regulatory Channel Mig Carnation. Capital Inve
57 WLFL3 LOWER FREW LEVEE SETBACK 58 WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt Tolt	FCD Const FCD Acqu/Elev	\$478,664 \$744,475	\$215,777 \$529,475	\$100,000 (\$190,000)	\$262,887 \$215,000	\$825,000	\$362,887 \$850,000	\$700,000 \$0	\$850,000 \$0	\$700,000 \$0	\$14,650,000 \$0	\$100,000 \$0	\$17,362,887 \$850,000			\$17,578,664 \$1,379,475	
																		Carnation. Damage is a damage is at the down
59 WLFL3 REMLINGER LEVEE 2017 REPAIR 60 WLFL3 RIO VISTA PROPERTY ACQ	Tolt Tolt	FCD Const FCD Acqu/Elev	\$311,000 \$500,000	\$143,033 \$203	(\$449,797)	\$167,967 \$499,797	\$1,382,000	\$167,967 \$1,432,000	\$0 \$0	\$0 \$449,797	\$0 \$0	\$0 \$0	\$0 \$0	\$167,967 \$1,881,797				property. Construction Carnation. Capital Inve
																		Carnation. This project road, ultimately complete
61 WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqu/Elev	\$4,953,353	\$4,588,674		\$364,679	\$216,321	\$581,000	\$0	\$0	\$0	\$0	\$0	\$581,000				downstream of San So Carnation. Capital Inve
62 WLFL3 SAN SOUCI REACH IMPRVMNTS	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				neighborhood. Carnation. Capital Inve
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				production estimates Carnation. Capital Inve
64 WLFL3 SR 203 BR IMPRVMNTS FEAS 65 WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	FCD Const FCD Const	\$395,900 \$46,909	\$22,658 \$46,909		\$373,242 \$0		\$373,242 \$0	\$0 \$0			\$0 \$0	\$0 \$0	\$373,242 \$0			\$46,909	County Parks parking a Carnation. Flood dama
66 WLFL3 TOLT CIS LONG TERM 67 WLFL3 TOLT CIS MED TERM	Tolt Tolt	FCD Const FCD Const	\$0 \$0	\$0 \$0	\$0 \$0			\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$56,250,000	\$28,800,000		Carnation. Implement p Carnation. Implement p
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 management actions.
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 Inve
70 WLFL3 TOLT R MILE 1.1 SETBACK	Tolt	FCD Acqu/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 f Tolt Corridor Plan.
71 WLFL3 TOLT R NATURAL AREA ACQ 72 WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt Tolt	FCD Acqu/Elev FCD Const	\$2,605,067 \$250,000	\$2,555,550 \$50,160	\$1,350,247	\$49,517 \$199,840	\$230,236 (\$190,000)	\$1,630,000 \$9,840	\$0 \$0	\$685,000 \$0		\$0 \$0	\$0 \$0	\$2,315,000 \$9,840			\$4,870,550 \$60,000	
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 Inves as funds become availa
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 Inve floodwater conveyance
75 WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acqu/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 neighborhood.
																		Fall City. Repair 150 lin embankment for Dike F
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				which would experience Fall City. This bridge ha
77 WLFL4 RAGING SCOUR REPAIR 2017 78 Snoqualmie-South Fork Skykomish Subtotal	Raging	Agreement	\$80,000 \$90,199,917	\$25,062 \$77,430,921	\$8,933,012		\$2,777,495	\$54,938 \$24,479,506	\$0 \$14,583,585	\$0 \$18,763,277	\$0 \$13,555,407	\$0 \$27,126,341	\$0 \$27,324,575	\$54,938 \$125,832,690			\$80,000 \$392,613,611	only one house but is a
79 80					\$0 \$0	\$0 \$0		\$0 \$0										
31 WLFL5 ALLEN LK OUTLET IMPRVMNT	Sammamish	Agreement	\$0	\$0	\$400,000	\$0		\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$0	\$2,800,000			\$2,800,000	Sammamish. To addres retention/detention opti
																		The Bayless Revetm flanked and/or overto
32 WLFL5 BAYLESS 2020 REPAIR	Sammamish	FCD Const				\$0	\$50,000	\$50,000	\$200,000	\$0	\$0	\$0	\$0	\$250,000			\$250,000	revetment. Continued Sammamish: This proje
33 WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH 34 WLFL5 IRWIN R 2020 REPAIR	Sammamish Sammamish	Agreement FCD Const	\$0	\$0	\$400,000	\$0 \$0	\$25,000	\$400,000 \$25,000	\$0 \$50,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$400,000 \$75,000			\$400,000 \$75.000	deposition. Further damage to the
85 WLFL5 JEROME 2020 REPAIR	Sammamish	FCD Const				\$0	\$50.000	\$50.000	\$90.000	\$0	\$0	\$0	\$0	\$140.000				The Jerome Revetment private utilities. Loss of
86 WLFL5 MOMB 2020 REPAIR	Sammamish	FCD Const				\$0	\$50.000	\$50,000	\$60.000	\$0	\$0	\$0	\$0	\$110.000				Damage to the SE 1560 the facility may further of
37 WLFL5 SAMMAMISH CAPITAL INVESTMENT STRATEGY	Sammamish	FCD Const				\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000			\$250,000	Identify and prioiritize n Woodinville. Repair and
8 WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	FCD Const	\$1,180,065	\$1,175,342		\$4,723	(\$4,723)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,175,342	with Parks. Full permitt proximity. Construction
																		Redmond. Willowmoor downstream Sammami
																		ongoing flow conveyan impacts and costs. In J
88 WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	FCD Const	\$3,520,977	\$3,223,377		\$297,600		\$297,600	\$0	\$0	\$0	\$0	\$0	\$297,600			\$3,520,977	various design element when the 30% design is
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 Avor Bellevue. Reduce flood
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	events have increased Issaquah. Prepare a fea
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	idenify potential solutio
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 con Washington. Implement
			, . ,															Newcastle. As recomm Creeks) to limit sedime
93 WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	Lk Wash Tribs	FCD Const	\$380,000	\$220,545	\$150,000	\$159,455		\$309,455	\$0	\$0	\$0	\$0	\$0	\$309,455			\$530,000	sediment facility. 2020 Critical facilities (Utilitie
94 WLFL7 BELMONDO 2020 REPAIR	Cedar	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,000				damage likely to occur Residential land use an
95 WLFL7 BRODELL 2020 REPAIR 96 WLFL7 BYERS 2020 EMERGENCY ACTION	Cedar Cedar	FCD Const FCD Const	\$0 \$0	\$0 \$0	\$25,000	\$0 \$0	\$50,000	\$50,000 \$25,000	\$450,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$500,000 \$25,000			\$500,000 \$25,000	may occur next flood se Emergency action to pr
97 WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acqu/Elev	\$4,330,532	\$3,986,708		\$343,824	\$331,176	\$675,000	\$0	\$0	\$0	\$0	\$1,200,000	\$1,875,000				Renton. This project wil Investment Strategy).
98 WLFL7 CEDAR CIS LONG TERM 99 WLFL7 CEDAR CIS MED TERM	Cedar Cedar	FCD Const FCD Const	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$22,000,000	\$35,400,000		Carnation. Implement p Renton. Elevate or acq
																		Renton. This six-year fle Washington. Project co
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. Improve Cedar
01 WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100,000	This emergency action
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				damaged portion. This Erosion and scour have
103 WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar	FCD Const	\$0	\$0		\$0	\$50,000	\$50,000	\$136,000	\$0	\$0	\$0	\$0	\$186,000			\$186,000	Jam (ELJ #6), within the Renton. Implement pro
04 WLFL7 CEDAR RES FLOOD MITIGATION	Cedar	FCD Acqu/Elev	\$0	\$0		\$0	\$674,000	\$674,000	\$0	\$0	\$0	\$0	\$800,000	\$1,474,000			\$1,474.000	analysis has identified s homes per year.
105 WLFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar	FCD Const	\$290,000	\$23,690	\$68,302	\$266,310	(\$150,000)	\$184,612	\$0	\$0	\$0	\$0	\$000,000	\$184,612			\$208,302	Renton. Capital Investr
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				Renton. The project wil maintenance action for
107 WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement	\$3,750,000	\$0	\$1,250,000	\$3,750,000		\$5,000,000	\$0			\$000,000	\$000,000	\$5,000,000				Renton. Levee improve Erosion and scour have

k displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will side trail. Potential impact to highway if facility breaches during a major flood. Construction is complete. proximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Scheduled for 2018 construction ilure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to resid study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from ly study to determine the nature and extent or level improvements necessary to control real more an appendix of the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2017 Draft Tol River Channel Migration Study and the March 2018 Draft Tol River Channel Migrat d in CIS at \$14.5M-\$16.7M n between the Swiftwater development and the river for the future setback of the Upper Frew Levee is approximately 60 lineal feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The wnstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger n complete ivestment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available. sct will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community acces pleting project initiated 20 years ago by others. Approximately 20 homes removed from high hazard areas within and just upstream and Souci neighborhood. vestment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souc vestment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment vestment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King nage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp. nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. dor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplai . Scheduled for adoption in 2017. vestment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk n funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the nvestment strategy: acquire at-risk homes from willing sellers. neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road. nvestment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road ele ailable. vestment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and In the standard in the stan I lineal feet of discontinuous damage and missing toe rock. The levee protects the landward area from flooding and serves as the road e Rd, an access road to the Fall City boat launch. The damaged levee section is immediately adjacent to the Twin Rivers golf course barn, The necessities of the net of the second sec ress chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and down options; study road-raining options; prepare Concept Development Report, analyze and select best options. etment protects a sole access bridge to a residential community (about 70 homes) in the City of Issaquah. The facility was rtopped during the flood resulting in flooding of the low lying Sycamore neighborhood in the City of Issaquah behind the ed erosion may result in damage to the bridge and ongoing flooding to the neighborhood. oject will restore access to one river mile of high quality kokanee salmon habitat and reduce the risk of flooding by reducing sediment he facility could cut off the sole access to one resident (via a private road and bridge over the creek). ent protects three private residences in the City of Issaquah. Erosion of the revetment could result in loss of property and damage to of bank in front of middle property. 70 linear feet (LF) of erosion. 56th 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 er destabilize the steep slope of the landslide and threaten downstream homeowners e near-, mid-, and long-term capital projects for Flood Control District funding along the Sammamish River. and stabilize two short sections of the right riverbank near 1-405 to protect the regional Sammamish River rail. Work is being coordinate mitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to 1-405 mining win be required as work win be below Or two pussion opposited beasenies, win be required into two Dor and Triwy due to redo-on is targeted for summer 2016 and will likely require declouing trail users to adjacent roads. or Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammanish while maintaining mish River flood control performance and enhancing habitat. The project will reconfigure the Sammanish transition zone to ensure ance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including nts such as variable depth pools, cold water supplementation, and other elements itemized in the motion. Project costs will be updated In is complete in December 2018. vondale Rd from an embankment that has been scoured by floodwaters from Bear Creek. soding during high-intensity storm events along Factoria Boulevard, a major transportation corridor within the City of Bellevue. These relia is down in the store of the st ed in frequency and are anticipated to be even more frequent in the future as a result of climate change. I feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis tr itons to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the onveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Interested by City of Bellevue. Expenditure forecast to be updated based on unrent project schedule. mmended by City of Bellevue. Expenditure forecast to be updated based on current project schedule. mmended in the May Creek Basin Plan, two sediment trap facilities will be constructed on May Creek tributaries (Cabbage and Country ment loading. FCD funding is for initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future 20 funding is for permitting and design of a sediment facility. Itilies, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank -we name merici biol-future area. ur next major high-flow event. and critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage season/likelihood increasing J seasof interimous increasing. D prevent flooding of Bvers Road, which is the sole access/eqress for numerous residences along the Cedar River. will acquire strategic real estate upon which several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several section of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several large Flood Control District capital projects are dependent (Project J in the Capital Destination of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control District capital projects are dependent of the several large Flood Control nt projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee couire highest risk and repetitive loss properties from willing sellers. Elevate or purchase approximately 2 homes each year. flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake complete. Closeout in 2020 dar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay on will armor up to 300 feet river bank and construct a buried revetment to stabilize the bank and prevent further erosion to the mos This emergency action and the subsequent extension are upstream of the CRT 2 revetment in an area referred to as "zone B." have resulted in loss of upper ballast, dislodging of key logs, shearing of piles, and damage to hardware connections, to an Engineered Log the Cedar Rapids reach. projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. Project K on the CIS: Risk d 53 homes as high risk from flooding and channel migration, but which are not mitigated by projects. Elevate or purchase approximately 2 estment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank

will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016. ovements necessary to satisfy levee certification engineering recommendations. ave resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined es, likely to fail into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility,

															6-Year CIP				Commonte
				2019 Inception to Date	2019 Inception to Date	2020	2019	2020 Reallocation	2020	2021	2022	2023	2024	2025	Total	CIS	CIS	Droiget Life	Comments
No.	Title	Basin	Type of project	Budget	Expendiure	Adopted	Carryover	Request	Revised	Projected	Projected	Projected	Projected	Projected	(Including 2019 Carryover)	Year 7-10	10+ Year	Project Life Total	
																			Critical facilities (Utilitie season/likelihood incre
	WLFL7 CRT2 ZONE D 2020 REPAIR WLFL7 DORRE DON AVULSION ANALYSIS	Cedar Cedar	FCD Const FCD Const	\$0 \$0	\$0 \$0		\$0 \$0	\$50,000 \$50,000	\$50,000 \$50,000	\$143,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$193,000 \$50,000			\$193,000 \$50,000	The main channel has
																			Renton. Washington S capacity for flood store
	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqu/Elev	\$5,311,784	\$5,836,796		(\$525,012)	\$525,012	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,836,796	Renton. Capital Invest
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	acquire up to 5 proper Issaquah. Construct in
114	WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	\$100,000	\$88,319		\$11,681		\$11,681	\$0	\$0	\$0	\$0	\$0	\$11,681				Hobart Road SE and S Renton. Capital Invest
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	construction of side cl Renton. Capital Inves
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	infrastructure modifica Renton. Capital Invest
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	revetment; remove po
	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	\$2,899,480			\$3,326,000	Renton. To address a
	WLFL7 MADSEN CR RENTON	Cedar	Agreement	\$635.000	\$62		\$634.938	,	\$634.938	\$0		\$0	\$0	\$0	\$634.938				Renton. Design and in level flood protection
	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	\$490,246	\$297,086		\$193,160		\$193,160	\$0	\$0	\$0	\$0	\$0	\$193,160				Renton. Capital Inves Erickson Levee. Pend
											ψŪ	**	ţ.	ţ.					Critical facilities (Uti
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	Renton. This project r
123	WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Acqu/Elev	\$5,231,042	\$4,378,048		\$852,994		\$852,994	\$0	\$0	\$0	\$0	\$0	\$852,994			\$5,231,042	design for potential le portion of scope is co
																			Renton. Conduct feas drainage infrastructure
	WLFL7 SR 169 FEASIBILITY STUDY Cedar-Sammamish Subtotal	Cedar	FCD Const	\$646,800 \$56,880,796	\$295,338 \$41,792,611	\$138,203 \$7,833,030	\$351,462 \$15,088,184	\$4,485,043	\$489,665 \$27,406,257	\$0 \$17,621,435	\$0 \$4,463,445	\$0 \$4,940,367	\$0 \$3,541,720	\$0 \$3,932,358	\$489,665 \$61,905,582			\$785,003 \$161,098,193	design.
126 127																			
																			Kent. Floodwall constr property acquisition ar
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	FCD 2016-20 Section once the District's ILA
129	WLFL8 BRPS CONTROL BLDG RPLCMT	Green	FCD Const	\$380,506	\$16,841	\$1,926,876	\$363,665		\$2,290,541	\$7,813,278	\$13,241,331	\$9,647	\$0	\$0	\$23,354,798			\$23,371,638	Renton. This project w
	WLFL8 BRPS FISH PASS IMPRVMNTS	Green	FCD Const	\$0	\$0		\$0	\$350.000	\$350.000	\$992.079		\$4,107,257	\$3.453.157	\$92,073	\$12,777,447			\$12,777,447	Renton. This project w
	WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	\$1,484,646	\$1,518,227	\$3,949,130	(\$33,581)	\$000,000	\$3,915,549	\$33,949		\$0	\$0,100,101	\$0	\$3,949,498			\$5,467,725	Renton. This project w
	WLFL8 BRPS SUPPORT SYS UPGRADES	Green	FCD Const	\$0	\$0	\$1,149	(000,001)		\$1.149	\$183,181		\$876,479	\$12,074	\$0	\$2,013,200				Renton. This project w panels, cooling system
	WEFL8 COVINGTON CR BLACK DIAMOND	Green	Agreement	\$0	\$0	\$291,500	\$0 \$0		\$291,500	\$2,002,000		\$070,479	\$12,074	\$0 \$0	\$2,293,500				Black Diamond: Remo
	WLFL8 DESIMONE MAJOR REPAIR			\$0 \$0	\$0	\$291,500	\$0 \$0	\$20,000	\$291,500	\$2,002,000		\$0 \$0		\$0 \$0	\$2,293,500		-		for water flow and allo Kent. This project will
		Green	FCD Const		\$0		\$0	\$80,000				\$0	\$0	\$0					Only the conditions as Damage increases v
	WLFL8 FORT DENT 2020 REPAIR WLFL8 GALLIDYKSTRA 2020 REPAIR	Green Green	FCD Const FCD Const	\$0 \$200,000	\$0 \$90,891	\$207,314	\$0 \$109,109	\$50,000 \$0	\$50,000 \$316,423	\$50,000 \$1,750,783		\$0 \$0	\$0 \$0	\$0 \$0	\$100,000 \$2,067,206			\$100,000 \$2,158,097	Auburn. Complete Pha
137	WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/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 v construction schedule
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 0 thick layer of overlay.
																			Auburn. This project w eligibility for US Army
<u>139</u>	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 w
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	County landmark. Kent. New project to i
																			24.46-24.72) to a more the 500-year (0.2% an
141	WLFL8 HSB BREDA 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 in
																			USACE due to a slope levee in this reach, set
																			Puget Sound Energy f about RM 24.3 and RM
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	of major modification t
						,													Kent. New project to in engineering standards
																			millions of dollars in d steepened slopes from
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	drawdown of 1. 01 at
	WLFL8 INTERIM SWIF IMPLEMENTATION	Green	FCD Const	\$85,000	\$83,675		\$1,325		\$1,325	\$0		\$0	\$0	\$0	\$1.325				Kent. Coordination an the operating budget.
	WLFL8 LONES LEVEE RESTORATION	Green	Agreement	\$00,000	\$03,073	\$1,850,000	\$0		\$1,850,000	\$0	\$0	\$0	\$0	\$0 \$0	\$1,850,000				Contribute the partial Flood Control District
146	WLFL& LOWER RUSSELL ACQ KENT WLFL& LOWER RUSSELL ACQ KENT	Green Green	Agreement FCD Const	\$1,023,656 \$1,743,249	\$1,123,668 \$329,299	ψ1,000,000	(\$100,012) \$1,413,950	\$100,012	\$0 \$1,413,950	\$0 \$0 \$0		\$0	ψŪ		\$0			\$1,123,668	Kent. Acquisitions by Kent. Lower Green Ri
147	WEPE& LWR GRN R CORRIDOR PLANEIS	Gleen	PCD Const	\$1,743,249	\$329,299		\$1,413,950		\$1,413,950	\$U	\$U	\$U	\$U	\$U	\$1,413,950			\$1,743,249	Kent. Remove and rep 17.85 (S 212th St) and
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	Increased expenditure
	WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Agreement	\$19,400,000	\$418,401	A05.000	\$18,981,599		\$18,981,599	\$0	\$0	\$0	\$0	\$0	\$18,981,599			\$19,400,000	Kent. Prepare an anal necessary land rights.
	WLFL8 NEWAUKUM CR FLOOD CONVEYANCE RESTORATION	Green	Agreement	\$0	\$0	\$65,000	\$0		\$65,000	\$0					\$65,000				Enumclaw: An unders Auburn. This project v
151	WLFL8 OLD JEFF'S FARM REVETMENT	Green	FCD Const	\$826,802	\$301,921	\$50,525	\$524,881		\$575,406	\$3,040,810	\$81,863	\$0	\$0	\$0	\$3,698,079			\$4,000,000	assumed as a placeho Kent. Project is to imp
	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	These segments of th
	WLFL8 S 106TH ST DRAINAGE IMPVMNT WLFL8 SIGNATURE POINTE REVETMENT	Green Green	Agreement Agreement	\$0 \$300,000	\$0 \$345,419	\$451,000 \$1,445,000	\$0 (\$45,419)		\$451,000 \$1,399,581	\$0 \$26,777,500	\$0 \$26,777,500	\$0 \$0						\$451,000 \$55,300,000	Burien: Replace an ex Kent. Project provides
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 re revetment protects an
156	WLFL8 TUK REVETMNT 2019 REPAIR	Green	FCD Const	\$500,000	\$230,061		\$269,939		\$269,939	\$0	\$0	\$0	\$0	\$0	\$269,939			\$500,000	Tukwila. Erosion and revetment.
157	WLFL8 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 with certification requi
																			Tukwila. New project t protect adjacent busin
158	WLFL8 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	during the project desi Tukwila. US Army Cor
159	WLFL8 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	interim SWIF. The US
160	WLFLS PUGET WAY CULVERT	Green	Agreement		\$1,095,048		\$704,952		\$704,952		\$0	\$0	\$0	\$0				\$1,800,000	Seattle. This project w

ties, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood reasing. This damage is to the CRT 2 revetment downstream of the emergency repair site listed separately; area is referred to as "Zone

s avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE. State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the rage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds He herznan provid conceptioning environmental improvements. The project has coarshare running roll the city of Seattle. Also fullus the herznan project and Riverbend. stment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetme

rties. tersection improvements which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaqu

SE May Valley Road. tment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee stment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jar hannel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023. ment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantity economic damage potential 2) det ations to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis. stiment Strategy: Raise in place or setback Jones Road; excavate and stabilizer right bank to increase conveyance capacity, reinforce one orbiton of another revertient; acquire 8 at risk properties Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or

a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert I-raising option; and analyze upstream and downstream retention/detention impacts. mplement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year

Implement phase 1 improvements to Madsen Creek to achieve 100-year revention protection for properties south of SR 169. for properties north of SR 169. Isment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the ding results of landslide hazard analysis, FCD will consider options for a project.

ilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed - damage likely to occur next major high-flow event.

represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering svee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD

sibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local re, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary

truction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for ind riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out with Kent expires in 2018. will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the

acement of the trash rake system, and replacement of the screen spray system. will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage

will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which ru y than the other, larger pump engines. will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control

ns, oilers and hoists. ove the three 6-foot diameter culverts where Lake Sawyer flows into Covington Creek and replace with a bridge to eliminate obstructions we passage for migrating salmon. I assess the damaged section of Desimone Levee between the two new floodwall segments, and recommend possible options for repair

ssessment is proposed for funding.

ulnerability of the heavily used regional Green River trail and regional soccer complex (Starfire) and Tukwila Park. Erosion ility to trail and soccer fields.

have 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements. will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to es for those projects. Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a

will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintai / Corps of Engineers PL84-99 program. The current mitigation effort is the Teufel project scheduled for 2018 construction.

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

implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe Bend Levee at the Breda reach (R re stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain nnual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.

implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a 'Minimally acceptable' rating by the e 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 containmen at 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 Tacility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 at 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 to the federal levee so that the City of Kent's secondary containment levee can be incorporated into the federal levee project.

implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened and does not meet curren Inspendent internet with adopted by board of objectives. The constant's non-enteened is due to be based by a long tendent with a second second

nd planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in

cost of a repair (\$500,000) to a \$5 million levee setback project. By relocating the levee, flood risks as wellas future repair costs for the are reduced.

the City of Kent for the Lower Russell levee setback project

the dry of Relif for the cower Rdssell levels settadk project. tiver Corridor Planning and Environmental Impact Statement. splace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river n driver mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat. e authority to match interim SWIF adopted by Board of Supervisors. Ilysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secur

older. prove the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. ne Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.

xisting damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding. s increased level of protection to 1.5 miles of Lower Green River Corridor. Alternative selected by Executive Committee. cent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road. slumping of Tukwila Trail revetment caused by the recent Green River flood resulted in approximately 200 feet of damage to the

to implement interim SWIF adopted by Board of Supervisors. This project will construct a facility to bring this levee segment in complian to implement interim owner adopted by board of proper works. This project will construct a facinity to bring this force significant in comparate interments for structural stability and raise the levee to roughly the 500 year event. to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwall and sloped embankment to nesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized interactions. sign phase.

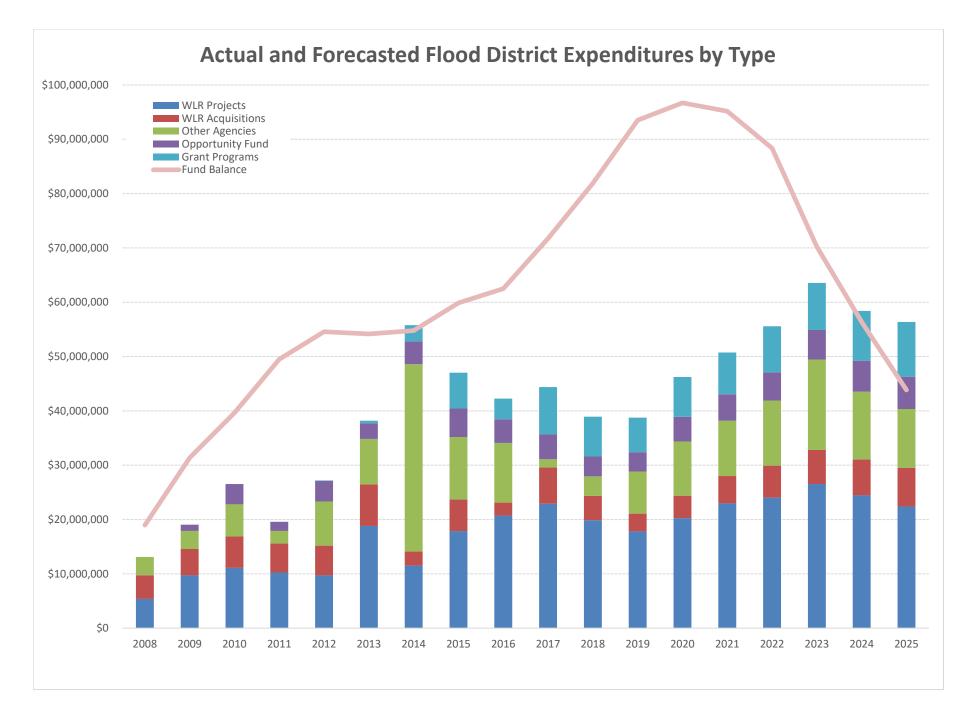
rps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted SACE will share remaining 2/3 of the cost; this allocation is the local share of 1/3 of total cost. Requires cooperation agreement.

will replace an aging and undersized creek culvert under Puget Way SW in Seattle.

No.	Title	Basin	Type of project	2019 Inception to Date Budget	2019 Inception to Date Expendiure	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
																			Seattle. The South Park
161	WLFLS 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	The conveyance improv
162	WLFLS 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 cons schedule. Implemented
	Green-Duwamish Subtotal	Green	Agreement	\$114,726,609		\$55.025.510	(420)	(\$13,888,649)	\$93,266,382	\$85,855,463	\$76 741 492	\$10,806,094	\$8,565,231	\$5.092.073				\$342,923,824	schedule. Implementeu i
164				\$111,120,000	\$62,001,000	\$00,020,010	<b>402</b> , 120,021	(\$10,000,010)	\$00,200,002	\$00,000,100	\$7.0,7 TT, 102	\$10,000,001	\$0,000,201	\$0,002,010	\$200,020,700			\$012,020,021	
165																		1	
	WLFL9 212TH AVE SE @ SR 164 FLD IMPRVMNT	White	Agreement	\$0					\$0	\$0	\$0				\$190,000				Enumclaw. Improve the c
167	WLFL9 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	WLFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev	\$100,000	\$0		\$100,000		\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000			\$100,000	Enumclaw. Park is split b
169	WLFL9 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 r in Government Canal from approximately five hundre flooding.
					+====		+= -01001												Tukwila. Reduces flood e
<u>170</u>	WLFL9 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	value), improves sedimer Pacific. Construct a new
171	WLFL9 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	Estates neighborhood. Greenwater. In mid-2018
172	WLFL9 SLIPPERY CREEK ACQ	White	FCD Acqu/Elev	\$180,000	\$115,563		\$64,437		\$64.437	\$0	\$0	\$0	\$0	\$0	\$64.437			\$180,000	Highway 410. Subsequen abatement at a remote an
	WLFL9 STREAM #10.0048 DS CULVERT	White	Agreement	\$0	\$0		\$0		\$0	\$150.000	\$1.500.000	\$0	\$0					\$1,650,000	Auburn. This project will
174	WLFL9 STREAM #10.0048 US CULVERT	White	Agreement	\$190.000	\$148.566	\$400.000	\$41.434		\$441.434	\$100,000	\$0	\$0		\$0				\$690,000	Auburn. This project will
		14.0 %	505.0	<b>6</b> 000 000	000.517	<b>0</b> 0	<b>0</b> 101100		0513053					\$0	<b>1</b>				Auburn. Loss of facing ro
	WLFL9 STUCK R DR 2019 REPAIR White Subtotal	White	FCD Const	\$200,000 \$38,987,576	\$98,517 \$37,313,885	\$446,374 \$1,171,209	\$101,483 \$1.673.690	\$158.030	\$547,857 \$3.002.929	\$1,259,966	\$0 \$8.672.705	\$8,508,038	\$0	\$0 \$190.000	\$547,857 \$21,770,533			\$646,374 \$59.084.418	face supporting the rock r
177				\$00,001,010	\$51,510,000	\$1,111,200	\$1,070,000	\$100,000	\$0,00 <u>2,0</u> 20	\$1,200,000	\$0,072,700	\$0,000,000	\$100,000	\$100,000	\$21,110,000			\$00,00 I, ITO	
178																			
170	WLFLG COASTAL EROSION/FLOODING GRANTS		Grant	\$0	\$0	¢0.	¢0.		¢0.						\$0			£0.	Focuses on mapped coas relocating infrastructure of
179	WEFEG COASTAL EROSION/FLOODING GRANTS		Giani	\$U	\$U	\$U	<b>ф</b> 0		\$U						<b>Ф</b> О			\$U	Reduces flooding and imp
180	WLFLG CULVERT & FISH PASSAGE GRANTS		Grant	\$0	\$0	\$0	\$0		\$0						\$0				focus on accelerating rep
181	WLFLG 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				Competitive grant program
182	WLFLG URBAN STREAMS GRANTS		Grant	\$0	\$0	\$0	\$0		\$0		<b>*</b> *(***). **	<b>*</b> */·**/*·	<b>*</b> *)= ·*)*··	+010001000	\$0				Invests in urban flooding
183	WLFLG 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 M
184	WLFLM 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 proje
	WLFLO 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 Cou
	WLFLX 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				Central charges related to
	WLFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	\$500,000	\$3,354		\$496,646		\$496,646	\$0	\$0	\$0	\$0	\$0				\$500,000	Stockpile role for future fl
	WLFLX FLOOD EMERGENCY CONTGNCY	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				Contingency for emergen
	Countywide Subtotal			\$110,959,023	\$79,328,285	\$22,021,794	\$31,630,737	\$1,349,833	\$55,002,364	\$20,418,107	\$20,871,391	\$21,443,665	\$21,877,337	\$22,187,083	\$161,799,947			\$241,128,233	
190				\$444 7E0 004	\$000 400 Too	\$04 004 FFF	6440.004.454	(05 440 5 10)	\$000 4FT 400	\$400 TOO 555	\$400 E40 E40		\$04 047 FOX	\$50 700 coo	\$054 005 100				
191	Grand Total			\$411,753,921	\$298,462,792	\$94,984,555	\$113,291,131	(\$5,118,248)	\$203,157,438	\$139,738,557	\$129,512,310	\$59,253,571	\$61,247,524	\$58,726,089	\$651,635,488			#######################################	

rk Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. ovements will work in conjunction with the Pump Station.
nstruction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project d by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
e drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way.
t by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
Il reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems rom high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to dred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to
d elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million content nent storage and enhances habitat.
w levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River
18 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of uent site visits identified multiple unpermitted structures and a well; additional funding necessary to complete demolition and asbestos and inaccessible location.
ill analyze culvert replacement and road-raising options and implement the preferred option.
ill analyze culvert replacement and road-raising options and implement the preferred option.
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 ck remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
oastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retrofitting or e out of flood-prone areas to reduce risk.
improves fish passage and water quality by replacing and/or removing culverts or other blockages to fish passage. This program will replacement or removal of culverts that address both significant flood risks to critical infrastructure, and restore fish passage.
rram for flood reduction projects. Increases as a proportion of total FCD tax revenue.
ng projects that reduce risks to people, property, and public infrastructure.
d Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
rojects to determine effectiveness and identify project design improvements.
ounty jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
d to the FCD's capital fund.
a flood damaga rapairs

rgency response actions during a flood event.



FCD Board - Blue folder

J une 24, 2020

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

June 22, 2020

	2019	2020	2020	2021	2022	2023	2024	2025
	Actual	Adopted	Revised	Projected	Projected	Projected	Projected	Projected
Beginning Balance	81,668,684	89,876,187	93,504,495	96,702,854	95,169,461	88,365,578	70,207,641	56,367,847
Revenue								
Flood District								
Flood District Levy <sup>1</sup>	57,896,370	58,962,538	58,241,513	58,403,522	58,469,952	58,588,758	58,717,381	58,860,653
Interest Earnings <sup>2</sup>	2,243,703	1,855,726	2,568,871	2,656,740	2,614,613	2,427,688	1,928,831	1,548,607
Miscellaneous Revenue <sup>3</sup>	267,338	300,000	270,000	270,000	270,000	270,000	270,000	270,000
King County								
Inter-County River Improvement <sup>4</sup>	48,100	45,000	45,000	0	0	0	0	0
Grants <sup>10</sup>	718,830	2,869,028	2,869,028	2,869,028	2,869,028	0	0	0
Miscellaneous Revenue <sup>5</sup>	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	64,299,291	64,323,593	61,386,446	61,016,212	60,779,260
Expenditure								
District Administration <sup>6</sup> Other District Expenditures	(773,881)	(913,238)	(913,238)	(940,635)	(968,854)	(968,854)	(997,920)	(997,920)
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)	(46,243,605)	(50,740,663)	(55,582,694)	(63,562,323)	(58,394,484)	(56,363,640)
Total Expenditure	(49,431,150)	(79,024,594)	(60,896,053)	(65,832,684)	(71,127,476)	(79,544,383)	(74,856,006)	(73,289,070)
Ending Fund Balance (Cash)	93,504,495	75,058,885	96,702,854	95,169,461	88,365,578	70,207,641	56,367,847	43,858,036
Target Fund Balance	0	0	0	0	0	0	0	0
Budgetary Carryover Reserves	(103,956,672)	(132,625,036)	(156,913,834)	(245,911,728)	(319,841,344)	(315,532,592)	(318,385,631)	(320,748,079)
Ending Budgetary Fund Balance <sup>9</sup>	(10,452,178)	(57,566,151)	(60,210,979)	(150,742,267)	(231,475,766)	(245,324,951)	(262,017,785)	(276,890,043)

### Notes:

<sup>1</sup> Property tax forecast provided by the Office of Economic and Financial Analysis in March, 2018, less undercollection assumption of 1%.

<sup>2</sup> Interest earnings approximated using prior year actuals and increasing by 3% per year.

<sup>3</sup> District miscellaneous revenue due to multiple sources such as state forest sales, private timber harvest tax, unrealized investments, leashold excise taxes, and immaterial corrections from prior years. In 2017 this included \$4M from the sale of the Riverside Business Park in Kent, originally purchased for the Briscoe Levee project, but later deemed unnecesary when the scope of the project changed.

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 Business park, an acquisition under the Briscoe Levee Setback that was ultimately not needed for the project. While this sale could be considered a reduction in project expenditures, governmental accounting rules required it be categorized as a revenue.

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.

<sup>8</sup> The Unreserved Fund Balance is the remaing 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 quantification. The reserve quantities above reflect initial considerations by the District in lieu of more formal direction.

9 The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand the District's total budgetary commitment.

<sup>10</sup> 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**

al Expenditure Detail								
	2019	2020	2020	2021	2022	2023	2024	2024
	Actual	Adopted	Revised	Projected	Projected	Projected	Projected	Projected
FCD Projects New Appropriation	739,781	(42,782,730)	(28,874,989)	(57,253,007)	(67,391,039)	(30,205,780)	(29,682,483)	(20,372,828)
FCD Projects Carryover	(32,817,275)	(16,038,747)	(16,148,408)	(24,762,868)	(59,051,430)	(102,418,400)	(106,099,344)	(111,341,098,
Expenditure Rate	56%	56%	45%	28%	19%	20%	18%	17%
A. RFMS Project Expenditures	(17,813,428)	(32,394,027)	(20,260,529)	(22,964,445)	(24,024,069)	(26,524,836)	(24,440,729)	(22,391,367)
FCD Flood Mitigation New Appropriation	(1,614,371)	(1,866,201)	(9,693,049)	(9,133,722)	(9,811,420)	(7,998,321)	(8,088,271)	(9,699,820)
FCD Flood Mitigation Carryover	(16,485,443)	(12,669,870)	(13,223,472)	(18,791,547)	(22,898,721)	(26,822,316)	(28,552,922)	(30,045,778)
Expenditure Rate	18%	50%	18%	18%	18%	18%	18%	18%
B. RFMS Flood Mitigation Expenditures	(3,270,460)	(7,328,035)	(4, 124,974)	(5,026,549)	(5,887,825)	(6,267,715)	(6,595,415)	(7,154,208)
Other Agency New Appropriation	(30,066,843)	(28,744,062)	(29,706,707)	(54,217,268)	(32,669,385)	(899,605)	(2,810,000)	(7,462,358)
Other Agency Carryover	(30,413,688)	(51,408,451)	(53,485,324)	(73,208,987)	(117,232,155)	(137,909,417)	(122,151,939)	(112,465,745
Expenditure Rate	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)
Opportunity Fund New Appropriation	(5,889,245)	(6,091,017)	(6,091,017)	(6,255,428)	(6,414,885)	(6,568,517)	(6,720,084)	(6,869,230)
Opportunity Fund Carryover	(14,505,037)	(15,295,712)	(16,535,261)	(18,101,022)	(19,485,160)	(20,720,036)	(21,830,843)	(22,840,741
Expenditure Rate	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
Grants New Appropriation	(4,684,168)	(15,500,545)	(15,500,545)	(12,879,132)	(13,225,580)	(13,581,348)	(13,946,687)	(14,321,852
Grants Carryover	(6,971,932)	(13,955,019)	(13,898,666)	(22,049,408)	(27,244,261)	(31,971,175)	(36,897,544)	(41,692,269
Expenditure Rate	55%	32%	25%	22%	21%	19%	18%	18%
E. Grant Payments	(6,355,527)	(7,767,774)	(7,349,803)	(7,684,279)	(8,498,667)	(8,654,979)	(9,151,961)	(10,082,542)
Capital Summary - All Expenditures A-F								
Total New Capital Appropriation <sup>11</sup>	(41,514,846)	(94,984,555)	(89,866,307)	(139,738,557)	(129,512,310)	(59,253,571)	(61,247,524)	(58,726,089
Total Carryover	(101,193,375)	(109,367,799)	(113,291,131)	(156,913,834)	(245,911,728)	(319,841,344)	(315,532,592)	(318,385,631
Overall Expenditure Rate	27%	32%	23%	17%	15%	17%	15%	15%
Total Capital Expenditure <sup>7</sup>	(38,751,549)	(64,647,146)	(46,243,605)	(50,740,663)	(55,582,694)	(63,562,323)	(58,394,484)	(56,363,640