

Distributed at the
7/30/18 KC Flood
Control District Mtg.

King County Flood Control District

2018 - 2023 Reallocated Six-Year CIP

Attachment E

July 12, 2018

Name	2018 Approved	2017 Carryover	2018 Reallocation	2018 Revised	2019	2020	2021	2022	2023	2018 - 2023 Total
Snoqualmie River Basin	\$11,966,181	\$23,807,488	(706,277)	35,067,392	14,658,594	9,598,805	10,670,673	6,936,434	1,626,623	78,558,522
Cedar River Basin	\$13,328,687	\$12,029,569	110,589	25,468,845	12,471,379	13,360,453	3,789,266	1,822,991	264,189	57,177,123
Green River Basin	\$16,786,577	\$29,513,881	(827,905)	45,472,552	24,240,873	35,235,873	8,470,123	14,106,122	16,900,298	144,425,841
White River Basin	\$1,079,358	\$2,235,263	100,000	3,414,621	1,989,187	7,887,849	5,797,495	69,556	200,000	19,358,708
Seattle Projects	(\$4,215,112)	\$4,995,995	43	780,926	1,550,000	6,173,738	-	-	-	8,504,664
Effectiveness Monitoring	\$1,076,734	\$326,163	-	1,402,897	702,778	830,323	813,940	767,476	510,698	5,028,112
Countywide Corridor Plan Imp	\$0	\$142,610	-	142,610	-	-	-	-	27,000,000	27,142,610
Countywide Miscellaneous	\$130,000	\$462,662	-	592,662	382,600	385,252	387,957	390,716	393,531	2,532,717
Subregional Opportunity Fun	\$5,738,670	\$12,079,766	-	17,818,436	5,879,852	6,012,856	6,144,060	6,275,827	6,408,245	48,539,276
Flood Reduction Grants	\$3,085,306	\$4,392,073	-	7,477,379	3,161,211	3,232,718	3,303,258	3,374,100	3,445,293	23,993,959
WRIA Grants	\$4,520,525	\$7,653,641	-	12,174,166	4,654,617	4,792,687	4,934,853	5,081,235	5,231,960	36,869,518
Total	\$53,496,926	97,639,111	(1,323,551)	149,812,487	69,691,091	87,510,554	44,311,625	38,824,458	61,980,837	452,131,052

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7/30/18 KC Flood
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King County Flood Control District

2018 Reallocation Summary

July 25, 2018

New Project

No.	Title	Basin	2018 Reallocation Request	Reallocation Notes
1	WLFL0 MILLER R RD RVTMNT 2016 REPAIR	SF Skykomish	(\$187,192)	Closeout
5	WLFL0 SKYKOMISH LB UP 2016 REPAIR	SF Skykomish	(\$188,297)	Closeout
8	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	\$36,280	Closeout; Underestimated final costs and over disappropriated in 2018 budget.
10	WLFL1 MASON THRSN EXT 2016 REPAIR	Upper Snoq	(\$239,889)	Cancelled. Landowner unwilling; larger solution deferred to Middle Fork Capital Investment Strategy.
13	WLFL1 NORMAN CREEK CULVERT	Upper Snoq	\$724,000	Replace two existing rusted out 48" Corrugated Metal Pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert 59' long by 15' wide by 10' tall. The new culvert will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing.
16	WLFL1 REIF RD 2016 REPAIR	Upper Snoq	(\$219,516)	Closeout.
18	WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	(\$700,000)	Reduce excess appropriation in 2018; construction now scheduled for 2019.
20	WLFL1 SF SNO CORR EARLY ACTION	Upper Snoq	(\$89,202)	Cancelled. Per FCD Executive Committee this project is reprioritized to the long-term capital investment strategy.
21	WLFL1 SF SNO CORRIDOR IMP	Upper Snoq	(\$72,800)	Closeout.
22	WLFL1 SF SNO CORRIDOR PLAN	Upper Snoq	(\$110,434)	Closeout.
25	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	\$141,601	Additional appropriation required in 2018.
30	WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	(\$889,193)	Reduce excess appropriation based on current rate of home elevations.
38	WLFL2 SE 19TH WAY REVETMENT	Lower Snoq	\$210,000	Additional expenditure authority requested based on construction bids and updated construction management costs.
40	WLFL2 SE DAVID POWELL RD UPSTREAM	Lower Snoq	\$150,000	Project planning faster than anticipated requiring additional appropriation this year. No change in total cost.
44	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	\$850,000	New emergency repair project scheduled for 2018 construction. Longer-term repair will be proposed in 2019 budget.
45	WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	\$1,302,952	Revised engineer's estimate higher than previous forecast based on additional wood jacks ballasted with large boulders, additional bank armoring, as well as increased costs for underwater construction. Unused property will be surplusd once the project is complete; it is anticipated the sale will partially offset project costs.
47	WLFL3 FREW LEVEE 2016 REPAIR	Tolt	\$108,360	Additional appropriation required to complete project. Damage more extensive than first detected.
58	WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	(\$700,000)	Reduce excess appropriation.
66	WLFL4 ALPINE MANOR NEIGHBORHOOD BU	Raging	(\$832,947)	Full appropriation not needed in 2018. No acquisitions identified for remainder of the year.
73	WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	\$10,589	Small increase required to complete construction in 2018.
87	WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	\$95,326	Shift budget from Lower Jones Road to begin planning and predesign. Budget authority for acquisition is unchanged.
89	WLFL7 LOWER JONES ROAD NEIGHBORHO	Cedar	(\$95,326)	Shift excess budget to Jan Road. Budget authority for acquisitions is unchanged.
91	WLFL7 MAY VLY - ISSQH HOBART INTRST	Cedar	\$100,000	Contribution towards the preliminary design of the May Valley and Issaquah Hobart Intersection improvements.
99	WLFL8 BRPS BLACK R PUMP STATION	Green	\$17,257	Closeout
104	WLFL8 DESIMONE USACE 2015	Green	(\$752,146)	Closeout; USACE costs less then forecasted.
105	WLFL8 DYKSTRA USACE 2015	Green	(\$98,710)	Closeout; USACE costs less then forecasted.
111	WLFL8 INTERIM SWIF IMPLEMENTATION	Green	\$40,000	Increase needed to complete work and submit final SWIF.
112	WLFL8 LOWER RUSSELL ACQ KENT	Green	\$23,550	Increase total appropriation to match newly signed ILA with Kent.
114	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	\$6,000,000	Increase in total project cost due to increased unit cost for excavation, along with an increase in cost from 30% design to 90% design for flood walls and scour protection.
118	WLFL8 REDDINGTON REACH SETBACK	Green	(\$317,856)	Closeout
119	WLFL8 RUSSELL RD UPPER KENT	Green	\$10,000	Small addition required to cover adminisistrative expenses of closing out ILA with Kent.
125	WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	\$250,000	New repair project.
128	WLFL8 TUK-205 USACE GACO REPAIR	Green	(\$6,000,000)	Reduce excess appropriation in current year; landowners unwilling to sell. USACE will pursue repair-in-place option with floodwall rather than levee setback.
136	WLFL9 SLIPPERY CREEK ACQ	White	\$100,000	Acquire vacant parcel on Slippery Creek along Chinook Pass Hwy 410.
141	WLFLS SOUTH PARK PUMPSTATION	Seattle	\$43	Minor adjustment to resolve negative carryover.
158	Grand Total		(\$1,323,551)	

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2018 - 2023 Six-Year CIP Project Allocations + Carryover
Attachment H Modified
July 12, 2018

2015-2016 Flood Damage Repairs
Grant/External Funding
Cost Share
2018 Revision - New Project

No.	Title	Basin	Type of project	2017 Inception to Date Budget	2017 Inception to Date Expenditure	2018 Adopted	2017 Carryover	2018 Reallocation Request	2018 Revised	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	6-Year CIP Total (including 2017 Carryover)	Project Life Total	Comments
1	WLFLO MILLER R RD RVTMNT 2016 REPAIR	SF Skykomish	FCD Const	\$760,799	\$237,560	(\$334,425)	\$523,239	(\$187,182)	\$1,622	\$0	\$0	\$0	\$0	\$0	\$1,622	\$762,421	Damage to revetment. Very large rock removed from revetment, vertical banks and exposed subgrade in several locations totaling approximately 350 feet of damage. If not repaired, Miller River Road could be severely damaged.
2	WLFLO SF SKYKOMISH REP LOSS MIT	SF Skykomish	FCD Acqui/Elev	\$680,838	\$746,937	\$54,566	(\$56,009)	(\$1,533)	\$0	\$0	\$0	\$0	\$0	\$119,405	\$117,872	\$864,809	This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during future flood events.
3	WLFLO SKY W RVR DR FLOOD STUDY	SF Skykomish	FCD Const	\$81,237	\$2,856	\$0	\$78,381	\$78,381	\$78,381	\$0	\$0	\$0	\$0	\$0	\$78,381	\$81,237	This project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding of homes and property within the Town of Skykomish.
4	WLFLO SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const	\$150,000	\$85,402	\$0	\$64,599	\$64,599	\$64,599	\$0	\$0	\$0	\$0	\$0	\$64,599	\$150,000	Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
5	WLFLO SKYKOMISH LB UP 2016 REPAIR	SF Skykomish	FCD Const	\$309,433	\$120,455	\$0	\$188,978	(\$188,297)	\$681	\$0	\$0	\$0	\$0	\$0	\$681	\$121,136	Three pockets of missing armor rock: 15, 10 and 75 feet wide and eroded topsoil from upper sections of levee. Further flooding may compromise or severely damage facility.
6	WLFLO TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqui/Elev	\$2,586,513	\$1,888,350	\$223,361	\$698,163	\$921,524	\$921,524	\$0	\$0	\$0	\$0	\$0	\$921,524	\$2,809,874	This project will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as inundation in some places.
7	WLFLO TIMBERLANE 2016 REPAIR	SF Skykomish	FCD Const	\$52,500	\$11,115	(\$36,460)	\$41,365	\$4,925	\$4,925	\$20,000	\$20,000	\$20,000	\$20,000	\$0	\$4,925	\$96,040	Old privately built facility in Timberlane Village on County property. Riverside rocky walls continue to oversteepen, settle and fall into the river.
8	WFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	\$300,000	\$294,894	(\$31,386)	\$5,106	\$36,280	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000	\$304,894	FCD-requested project to reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 92nd Street, and Reing Road to reduce the frequency of community isolation caused by floodwaters overtopping these roadways.
9	WFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	FCD Const	\$150,000	\$65,125	\$278,505	\$84,875	\$363,380	\$513,426	\$1,608,159	\$1,738,003	\$0	\$0	\$0	\$4,222,969	\$4,288,093	This project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.
10	WFL1 MASON THRSN EXT 2016 REPAIR	Upper Snoq	FCD Const	\$240,000	\$111	\$0	\$239,889	(\$239,889)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$111	Large scour hole in bank at upstream end of Mason Thorsen Extension rock-faced levee. Significant settlement and displacement of face rock at upstream end of facility. Scour hole in bank threatens to end-run facility and damage adjacent private property. Damage to levee face-rock compromises levee integrity and may lead to progressive failure, especially at upstream end.
11	WFL1 MF SNO CORRIDOR IMP	Upper Snoq	FCD Const	\$1,100,000	\$954	\$0	\$1,099,046	\$1,099,046	\$1,099,046	\$2,243,361	\$1,591,350	\$1,311,272	\$0	\$0	\$6,245,029	\$6,245,983	Placeholder for corridor plan implementation project(s).
12	WFL1 MF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	\$1,824,912	\$1,328,569	\$0	\$496,343	\$496,343	\$496,343	\$0	\$0	\$0	\$0	\$0	\$496,343	\$1,824,912	Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2018.
13	WFL1 NORMAN CREEK CULVERT	Upper Snoq	Agreement	\$0	\$0	\$0	\$0	\$724,000	\$724,000	\$0	\$0	\$0	\$0	\$0	\$724,000	\$724,000	Replace two existing rusted out 48" Corrugated Metal Pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert 58' long by 16' wide by 10' tall. The new culvert will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North Fork Snoqualmie River overflows water backs up against 428th as the Norman Creek crossing is the normal outflow for this flood water once the North Fork has overtopped the adjacent levees.
14	WFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	FCD Const	\$385,000	\$171,125	\$0	\$213,875	\$213,875	\$213,875	\$0	\$0	\$0	\$0	\$0	\$213,875	\$385,000	The North Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the bridge safe and reliable during a flood, it is important to protect the piers and abutments from scour failure.
15	WFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	FCD Const	\$0	\$0	\$350,000	\$0	\$350,000	\$421,000	\$0	\$0	\$0	\$0	\$0	\$771,000	\$771,000	Repair downstream 200 lineal feet of facility which is missing face rock and toe rock. A significant scour hole has formed around a City of Snoqualmie stormwater outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the City's planned "Riverwalk" park and trail project.
16	WFL1 REIF RD 2016 REPAIR	Upper Snoq	FCD Const	\$253,000	\$32,197	\$0	\$220,813	(\$219,516)	\$1,297	\$0	\$0	\$0	\$0	\$0	\$1,297	\$33,484	Length 50-80 feet. Face rock has appeared to have settled 1-2 feet exposing core material above near upper part of levee face. Larger face rock missing in pockets upstream end of this damage site. Continued damage could compromise facility which provides flood protection for several residences landward of the facility.
17	WFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$265,438	\$318,421	\$385,937	\$457,218	\$1,427,015	\$1,427,015	Conduct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or raise levee in place / setback levee / gravel removal / home elevations.	
18	WFL1 REING RD RVTMNT 2016 REPAIR	Upper Snoq	FCD Const	\$0	\$28,042	\$1,500,000	(\$28,042)	(\$700,000)	\$771,958	\$0	\$0	\$0	\$0	\$0	\$771,958	\$800,000	Repair three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet.
19	WFL1 RIBARY CREEK	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$636,492	\$815,106	\$2,338,618	\$2,408,777	\$0	\$6,198,993	\$6,198,993	Address flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.	
20	WFL1 SF SNO CORR EARLY ACTION	Upper Snoq	FCD Const	\$5,582,744	\$1,420,044	(\$4,039,655)	\$4,142,700	(\$89,202)	\$13,843	\$0	\$0	\$0	\$0	\$0	\$13,843	\$1,433,887	Project identified by Board to alleviate potential flooding of I-90 in North Bend. Currently evaluating project alternatives, including levee setback and gravel removal.
21	WFL1 SF SNO CORRIDOR IMP	Upper Snoq	FCD Const	\$130,771	\$0	(\$87,971)	\$130,771	(\$72,800)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Placeholder for corridor plan implementation project(s).
22	WFL1 SF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	\$2,682,914	\$2,568,062	\$0	\$114,852	(\$110,434)	\$4,416	\$0	\$0	\$0	\$0	\$0	\$4,416	\$2,672,480	SF Snoqualmie Corridor planning process and development of capital investment strategy.
23	WFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$0	\$0	\$295,673	\$0	\$295,673	\$374,439	\$727,790	\$749,623	\$0	\$0	\$0	\$2,147,526	\$2,147,526	Six levee deficiencies have been identified in this levee segment. The project will design and reconstruct the impaired segment of levee in place.
24	WFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const	\$800,000	\$15,658	(\$200,000)	\$784,342	\$584,342	\$923,239	\$0	\$0	\$0	\$0	\$0	\$1,507,581	\$1,523,239	Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could threaten 428th Ave embankment or bridge.
25	WFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	\$197,500	\$0	\$172,899	\$197,500	\$141,801	\$512,000	\$447,676	\$0	\$0	\$0	\$0	\$959,676	\$959,676	Between 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60 feet of river bank. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Failure of this facility could result in damage to a heavily used county road (428th Ave SE).
26	WFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const	\$0	\$0	\$209,000	\$0	\$209,000	\$209,000	\$0	\$0	\$0	\$0	\$0	\$209,000	\$209,000	Repair approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. Si View Levee is a relatively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding.
27	WFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve conveyance and reduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
28	WFL1 TATE CRK BRIDGE FEASIBILITY	Upper Snoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	Prepare a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the current bridge does not provide enough hydraulic opening due to the transport of sediments and water overtops the approaches during floods.
29	WFL1 UPPER SNOQ 2015 FLOOD REPAIR	Upper Snoq	FCD Const	\$1,465,673	\$509,922	\$15,450	\$955,751	\$971,201	\$971,201	\$0	\$0	\$0	\$0	\$0	\$971,201	\$1,481,123	Flood damage repairs from January 2015 flood event. Locations include Mason-Thorsen Ells and Mason-Thorsen Extension (Middle Fork Snoqualmie); North Park (North Fork Snoqualmie); and Record Office, Meadowbrook, and Railroad (Snoqualmie mainstem).
30	WFL1 UPR SNO RES FLD MITGTN	Upper Snoq	FCD Acqui/Elev	\$11,971,284	\$9,748,621	\$1,454,158	\$2,222,663	(\$889,193)	\$2,787,628	\$2,412,151	\$2,464,516	\$2,559,051	\$2,635,823	\$0	\$12,879,169	\$22,627,790	This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with Cities of Snoqualmie and North Bend. As of May 2016 260 remain to be elevated or acquired. This amount assumes 10-12 home elevations per year.
31	WFL1 USACE PL 84-99 SF SNO	Upper Snoq	FCD Const	\$0	\$0	\$150,223	\$0	\$150,223	\$150,223	\$183,154	\$352,866	\$363,454	\$0	\$0	\$1,049,698	\$1,049,698	Ensure eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive future assistance from the Corps in the event of flood damage to the levees.
32	WFL2 DUTCHMAN RD REPAIR	Lower Snoq	FCD Const	\$209,914	\$0	\$338,679	\$209,914	\$548,593	\$548,593	\$0	\$0	\$0	\$0	\$0	\$548,593	\$548,593	Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of the Snoqualmie Valley downstream of Duvall. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which would severely limit access to the downstream property owners during or following a flood event.
33	WFL2 DUVALL BRIDGE 1136A	Lower Snoq	Agreement	\$30,000	\$9,244	\$120,000	\$20,756	\$140,756	\$140,756	\$0	\$0	\$0	\$0	\$0	\$140,756	\$150,000	The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing. Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
34	WFL2 FARM FLOOD TSK FORCE IMP	Lower Snoq	FCD Const	\$763,759	\$759,345	\$111,858	\$4,414	\$116,272	\$116,272	\$115,214	\$118,670	\$122,230	\$125,897	\$0	\$598,283	\$1,367,628	This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
35	WFL2 L SNO REP LOSS MITGTON	Lower Snoq	FCD Acqui/Elev	\$1,712,699	\$1,266,231	(\$17,028)	\$443,466	\$426,440	\$426,440	\$0	\$0	\$0	\$0	\$0	\$426,440	\$1,695,671	Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
36	WFL2 L SNO/ALDAIR CORRDR PLN	Lower Snoq	FCD Const	\$7,252,761	\$5,860,655	\$113,053	\$1,392,106	\$1,505,159	\$742,630	\$655,636	\$0	\$0	\$0	\$0	\$2,903,425	\$8,764,080	Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualmie. Projects reduce flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
37	WFL2 LWR SNO RESLD FLD MITGTN	Lower Snoq	FCD Acqui/Elev	\$3,306,276	\$2,151,873	(\$27,959)	\$1,154,403	\$1,126,444	\$737,924	\$0	\$0	\$0	\$0	\$0	\$1,864,368	\$4,016,241	This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
38	WFL2 SE 19TH WAY REVETMENT	Lower Snoq	FCD Const	\$1,706,294	\$595,008	\$0	\$1,111,286	\$210,000	\$1,321,286	\$0	\$0	\$0	\$0	\$0	\$1,321,286	\$1,916,294	Rebuild revetment to protect road access to high value agricultural operations and lands. Construction of road anticipated 2017; bank repair anticipated in 2018.

No.	Title	Basin	Type of project	2017 Inception to Date Budget	2017 Inception to Date Expenditure	2018 Adopted	2017 Carryover	2018 Reallocation Request	2018 Revised	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	6-Year CIP Total (Including 2017 Carryover)	Project Life Total	Comments
39	WLFL2 SE DAVID POWELL RD DOWNSTREAM	Lower Snoq	FCD Const	\$1,036,456	\$568,184	\$0	\$448,272		\$448,272	\$0	\$0	\$0	\$0	\$0	\$448,272	\$1,036,456	FCD-requested project to reduce neighborhood isolation from flooding. Prevent slope failure of sole access roadway that would isolate 150 homes.
40	WLFL2 SE DAVID POWELL RD UPSTREAM	Lower Snoq	Agreement	\$250,000	\$133,968	\$700,000	\$116,032	\$150,000	\$966,032	\$1,100,000	\$0	\$0	\$0	\$0	\$2,066,032	\$2,200,000	The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend MSE wall to prevent undercutting of the riverbank and roadway.
41	WLFL2 SE FISH HATCHERY RD	Lower Snoq	FCD Const	\$527,905	\$451,804	\$0	\$76,101		\$76,101	\$0	\$0	\$0	\$0	\$0	\$76,101	\$527,905	FCD-requested project to reduce neighborhood isolation from flooding. Prevent slope failure of sole access roadway that would isolate 20-30 homes.
42	WLFL2 SINNEMA QUALE 2011 REPR	Lower Snoq	FCD Const	\$12,508,516	\$12,432,743	\$0	\$75,773		\$75,773	\$0	\$0	\$0	\$0	\$0	\$75,773	\$12,508,516	Large capital project to repair 1000 linear feet of the Sinnema Quale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoqualmie Valley Trail. Construction to be completed in 2017; project anticipated to be closed out in 2018.
43	WLFL2 SNOQUALMIE VALLEY FEASIBILITY	Lower Snoq	Agreement	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$250,000	\$250,000	\$0	\$500,000	\$500,000	Regional flooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley would be the most cost effective to improve in the valley with chronic flood issues impacting over 25,000 daily drivers.
44	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	\$0	\$0	\$0	\$0	\$850,000	\$850,000	\$0	\$0	\$0	\$0	\$0	\$850,000	\$850,000	Repair revetment from damage received during 2017/18 flood season.
45	WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	FCD Const	\$3,271,375	\$2,917,631	\$6,162,541	\$353,744	\$1,302,952	\$7,819,237	\$42,436	\$0	\$0	\$0	\$0	\$7,861,673	\$10,779,304	This project will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqualmie River channel threatens to undermine the Seattle Public Utilities water supply line at this location south of Duval.
46	WLFL2 WOODINVILLE DUVAL BR 1136B/1136	Lower Snoq	Agreement	\$100,000	\$15,078	\$300,000	\$84,922		\$384,922	\$0	\$0	\$0	\$0	\$0	\$384,922	\$400,000	These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent locating approaches during flooding. A similar repair was done on Woodinville-Duval Bridge No. 1136D.
47	WLFL3 FREW LEVEE 2016 REPAIR	Tolt	FCD Const	\$150,000	\$66,450	\$102,000	\$83,550	\$108,360	\$293,910	\$0	\$0	\$0	\$0	\$0	\$293,910	\$360,360	Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an overstepped bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood.
48	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	FCD Const	\$80,000	\$745	\$251,000	\$59,255		\$310,255	\$0	\$0	\$0	\$0	\$0	\$310,255	\$311,000	Repair approximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. Missing face and toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure.
49	WLFL3 HOLBERG FEASIBILITY	Tolt	FCD Const	\$200,000	\$750	\$0	\$199,250		\$199,250	\$0	\$0	\$0	\$0	\$0	\$199,250	\$200,000	Feasibility study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from the regulatory Channel Migration Zone as mapped in the March 2017 Draft Tolt River Channel Migration study.
50	WLFL3 LOWER FREW LEVEE SETBACK	Tolt	FCD Const	\$175,000	\$93,007	\$1,236,000	\$81,993		\$1,317,993	\$1,823,962	\$0	\$0	\$0	\$0	\$3,141,955	\$3,234,962	Capital Investment Strategy: Design, based on level of service analysis, the highest priority levee setback for flood risk reduction. FCD 6-year includes funds needed for grant match for future grant applications.
51	WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	FCD Acqui/Elev	\$744,475	\$529,475	\$0	\$215,000		\$215,000	\$0	\$0	\$0	\$0	\$0	\$215,000	\$744,475	Acquisition between the Southwest development and the river for the future setback of the Upper Frew Levee.
52	WLFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	FCD Const	\$0	\$0	\$311,000	\$0		\$311,000	\$0	\$0	\$0	\$0	\$0	\$311,000	\$311,000	Damage is approximately 60 linear feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The damage is at the downstream end of Ramlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Ramlinger property.
53	WLFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acqui/Elev	\$0	\$0	\$500,000	\$0		\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000	Capital Investment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available.
54	WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqui/Elev	\$5,553,353	\$4,198,636	\$0	\$1,354,717		\$1,354,717	\$0	\$0	\$0	\$0	\$0	\$1,354,717	\$5,553,353	This project will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community access road, ultimately completing project initiated 20 years ago by others. When completed, will result in removing approximately 20 homes from high hazard areas within and just upstream and downstream of San Souci neighborhood.
55	WLFL3 SAN SOUCI REACH IMPRVMTS	Tolt	FCD Const	\$0	\$0	\$100,000	\$0		\$100,000	\$250,000	\$700,000	\$700,000	\$750,000	\$0	\$2,500,000	\$2,500,000	Capital Investment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souci neighborhood.
56	WLFL3 SEDIMENT MGMT FEAS	Tolt	FCD Const	\$0	\$0	\$209,605	\$0		\$209,605	\$205,284	\$0	\$0	\$0	\$0	\$414,889	\$414,889	Capital Investment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment production estimates.
57	WLFL3 SR 203 BR IMPRVMTS FEAS	Tolt	FCD Const	\$0	\$0	\$205,743	\$0		\$205,743	\$181,306	\$0	\$0	\$0	\$0	\$387,049	\$387,049	Capital Investment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King County Parks parking area.
58	WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	FCD Const	\$900,000	\$46,909	\$0	\$853,091	(\$700,000)	\$153,091	\$0	\$0	\$0	\$0	\$0	\$153,091	\$200,000	Flood damage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Ramlinger, and Girl Scout Camp.
59	WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const	\$1,153,657	\$1,134,500	\$0	\$19,157		\$19,157	\$0	\$0	\$0	\$0	\$0	\$19,157	\$1,153,657	The corridor plan for the lower 8 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplain management actions. Scheduled for adoption in 2017.
60	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	FCD Const	\$150,000	\$78,484	\$403,250	\$71,516		\$474,766	\$150,000	\$0	\$0	\$0	\$0	\$624,766	\$703,250	Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits.
61	WLFL3 TOLT R MILE 1.1 SETBACK	Tolt	FCD Acqui/Elev	\$5,484,360	\$4,110,305	(\$578,254)	\$1,374,055		\$795,801	\$530,450	\$0	\$0	\$0	\$0	\$1,326,251	\$5,438,556	Acquisition funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the Tolt Corridor Plan.
62	WLFL3 TOLT R NATURAL AREA ACQ	Tolt	FCD Acqui/Elev	\$2,470,067	\$1,671,614	\$515,000	\$798,453		\$1,313,453	\$530,450	\$109,273	\$0	\$0	\$0	\$1,953,176	\$3,624,790	Capital Investment Strategy: Acquire at-risk homes from willing sellers.
63	WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	FCD Const	\$250,000	\$45,001	\$0	\$204,999		\$204,999	\$0	\$0	\$0	\$0	\$0	\$204,999	\$250,000	FCD-requested project to reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road.
64	WLFL3 TOLT R RD NE IMPROVEMENTS	Tolt	FCD Const	\$0	\$0	\$0	\$0		\$0	\$50,000	\$100,000	\$210,000	\$800,000	\$1,160,000	\$1,160,000	Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road elevations as funds become available.	
65	WLFL3 UPPER FREW LEVEE SETBACK	Tolt	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$100,000	\$100,000	\$150,000	\$0	\$350,000	\$350,000	Capital Investment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge.
66	WLFL4 ALPINE MANOR NEIGHBORHOOD BUY	Raging	FCD Acqui/Elev	\$2,280,652	\$1,753,460	\$405,795	\$527,192	(\$832,947)	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$1,853,460	Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along the Raging River in the Alpine Manor neighborhood.
67	WLFL4 RAGING MOUTH TO BR 2017 REPAIR	Raging	FCD Const	\$0	\$0	\$500,000	\$0		\$500,000	\$74,000	\$0	\$0	\$0	\$0	\$574,000	\$574,000	Repair 150 linear feet of discontinuous damage and missing toe rock. The levee protects the landward area from flooding and serves as the road embankment for Dike Rd, an access road to the Fall City boat launch. The damaged levee section is immediately adjacent to the Twin Rivers golf course barn, which would experience greater flooding if the levee were breached.
68	WLFL4 RAGING R BRIDGE 1008E	Raging	Agreement	\$80,000	\$25,062	\$0	\$54,938		\$54,938	\$0	\$0	\$0	\$0	\$0	\$54,938	\$80,000	This bridge has a history of scour damage. One of the arch foundations is exposed. Repair scour mitigation measures to protect the footing. It serves only one house but is a designated King County Landmark.
69	Snoqualmie-South Park Skykomish Subtotal			\$64,022,637	\$60,215,145	\$11,366,181	\$2,167,465	(\$700,277)	\$15,667,392	\$14,656,594	\$0,548,508	\$10,670,673	\$6,936,434	\$1,626,623	\$78,506,822	\$79,298,909	
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72	WLFL5 NE 8TH ST AT LAKE ALLEN OUTLET	Sammamish	Agreement	\$0	\$0	\$0	\$0		\$0	\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$2,800,000	\$2,800,000	To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options, study road-raising options, prepare Concept Development Report, analyze and select best options.
73	WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	FCD Const	\$419,895	\$304,373	\$721,929	\$115,522	\$10,589	\$848,040	\$0	\$0	\$0	\$0	\$0	\$848,040	\$1,152,413	Repair and stabilize two short sections of the right riverbank near I-405 to protect the regional Sammamish River trail. Work is being coordinated with Parks. Full permitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to I-405 proximity. Construction is targeted for summer 2016 and will likely require detouring trail users to adjacent roads.
74	WLFL5 WILLOWMOOR FLOODPLAIN REST	Sammamish	FCD Const	\$2,717,923	\$1,454,905	(\$181,655)	\$1,263,018		\$1,081,363	\$1,684,709	\$2,011,665	\$0	\$0	\$0	\$4,777,737	\$6,232,642	Willowmoor Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammamish while maintaining downstream Sammamish River flood control performance and enhancing habitat. The project will reconfigure the Sammamish transition zone to ensure ongoing flow conveyance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs. In June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including various design elements such as variable depth pools, cold water supplementation, and other elements itemized in the motion.
75	WLFL6 FIFTEENMILE CRK BRIDGE 493C	Lk Wash Tribs	Agreement	\$0	\$0	\$150,000	\$0		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	Feasibility analysis to identify potential solutions to bank erosion and backwatering problems at bridge.
76	WLFL6 LOWER COAL CRK PH I	Lk Wash Tribs	Agreement	\$3,958,751	\$1,980,959	\$5,595,000	\$1,977,792		\$7,572,792	\$4,159,000	\$145,000	\$120,000	\$100,000	\$66,000	\$12,162,792	\$14,143,751	Increase conveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Washington. Implemented by City of Bellevue. Expenditure forecast to be updated based on current project schedule.
77	WLFL6 MAY VALLEY DRAINAGE IMPRVMT	Lk Wash Tribs	FCD Const	\$0	\$0	\$80,000	\$0		\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000	\$80,000	As recommended in the May Creek Basin Plan, two sediment trap facilities will be evaluated to limit sediment loading from two May Creek tributaries. Both projects would require land acquisition, whether easement or property purchase.
78	WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acqui/Elev	\$4,330,532	\$2,573,767	\$0	\$1,756,765		\$1,756,765	\$0	\$0	\$0	\$0	\$0	\$1,756,765	\$4,330,532	This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent, namely the levee setback projects at the Herzman, Jan Rd, Rhode, Gatchman, and Rutledge-Johnson Lower Jones Rd levee segments. Acquisition funding related to these projects is now included in the individual capital projects.
79	WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar)	Cedar	FCD Const	\$1,987,587	\$1,853,797	\$0	\$133,790		\$133,790	\$0	\$0	\$0	\$0	\$0	\$133,790	\$1,987,587	This six-year flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake Washington. Completion of this plan is expected in September 2016.
80	WLFL7 CEDAR R REP LOSS MITGATN	Cedar	FCD Acqui/Elev	\$3,788,422	\$3,182,200	\$0	\$606,222		\$606,222	\$0	\$0	\$0	\$0	\$0	\$606,222	\$3,788,422	Acquire frequently-flooded homes. Placeholder funding until District adopts acquisition policy.
81	WLFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar	FCD Const	\$0	\$0	\$0	\$0		\$0	\$100,000	\$100,000	\$200,000	\$490,000	\$0	\$890,000	\$890,000	Capital Investment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank failure.
82	WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Agreement	\$11,102,885	\$9,638,127	\$0	\$1,464,758		\$1,464,758	\$962,613	\$104,880	\$445,679	\$111,267	\$114,605	\$3,203,802	\$12,841,929	The project will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required maintenance action for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016.
83	WLFL7 CITY OF RENTON LEVEE CERTIFICAT	Cedar	Agreement	\$0	\$0	\$750,000	\$0		\$750,000	\$3,000,000	\$1,250,000	\$0	\$0	\$0	\$5,000,000	\$5,000,000	Placeholder for Renton levee certification projects.
84	WLFL7 ELLIOTT BR LEVEE SETBACK	Cedar	FCD Const	\$2,175,408	\$2,168,073	(\$7,335)	\$7,335		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,168,073	Purpose of the project is to setback levees on both sides of the river below the Elliott/154th ST Bridge. Based on the Cedar Capital Investment Strategy this project is no longer scheduled for the near-term 6-year timeframe.

No	Title	Basin	Type of project	2017 Inception to Date Budget	2017 Inception to Date Expenditure	2018 Adopted	2017 Carryover	2018 Reallocation Request	2018 Revised	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	6-Year CIP Total (Including 2017 Carryover)	Project Life Total	Comments
85	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqui/Elev	\$5,705,500	\$3,001,014	\$806,284	\$2,704,486		\$3,510,770	\$0	\$0	\$0	\$0	\$0	\$3,510,770	\$6,511,784	Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle.
86	WLFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	\$0	\$0	\$944,872	\$0		\$944,872	\$226,184	\$3,979,360	\$78,786	\$81,149	\$83,584	\$5,393,935	\$5,393,935	Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
87	WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	FCD Const	\$0	\$0	\$900,000	\$0	\$95,326	\$995,326	\$0	\$0	\$0	\$0	\$0	\$995,326	\$995,326	Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, construction of side channel, and mitigation of at-risk properties.
88	WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	FCD Const	\$0	\$0	\$200,000	\$0		\$200,000	\$200,000	\$100,000	\$0	\$0	\$0	\$500,000	\$500,000	Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantify economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 3) conduct cost-benefit analysis.
89	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const	\$36,000	\$0	\$3,057,792	\$36,000	(\$95,326)	\$2,998,466	\$1,738,873	\$4,569,548	\$1,544,801	\$40,575	\$0	\$10,892,263	\$10,892,263	Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; acquire 8 at risk properties.
90	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	\$440,000	\$56,732	\$0	\$383,268		\$383,268	\$0	\$0	\$0	\$0	\$0	\$383,268	\$440,000	Capital Investment Strategy: Conduct site specific landside risk assessment study, conduct a feasibility study to evaluate opportunities to modify the Erickson Levee.
91	WLFL7 MAY VALLEY ISSAQUAHOBART INTERSECTION	Cedar	Agreement	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	Contribution towards the preliminary design of the May Valley and Issaquah Hobart Intersection improvements.
92	WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Const	\$5,357,042	\$4,044,614	\$0	\$1,312,428		\$1,312,428	\$0	\$0	\$0	\$0	\$0	\$1,312,428	\$5,357,042	This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach.
93	WLFL7 SE 162ND AVE AT 266TH CT	Cedar	Agreement	\$150,000	\$124,605	\$250,000	\$25,395		\$275,395	\$400,000	\$700,000	\$0	\$0	\$0	\$1,375,395	\$1,500,000	To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert replacement and road-raising option; and analyze upstream and downstream retention/detention impacts.
94	WLFL7 SR 169 FEASIBILITY STUDY	Cedar	FCD Const	\$260,000	\$17,211	\$61,800	\$242,789		\$304,589	\$0	\$0	\$0	\$0	\$0	\$304,589	\$321,800	Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates.
95	Cedar-Sammamish Subtotal			\$42,435,945	\$33,400,376	\$13,328,607	\$12,325,568	\$110,589	\$25,468,945	\$11,475,376	\$13,560,153	\$3,785,184	\$1,552,901	\$54,128	\$27,177,723	\$27,677,489	
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98	WLFL8 BRISCOE LEVEE SETBACK	Green	Agreement	\$23,330,271	\$20,478,565	\$0	\$2,851,706		\$2,851,706	\$0	\$0	\$0	\$0	\$0	\$2,851,706	\$23,330,271	Floodwall construction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for property acquisition and riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out once the District's ILA with Kent expires in 2018.
99	WLFL8 BRPS BLACK R. PUMP STATION	Green	FCD Const	\$5,374,203	\$5,157,701	(\$229,161)	\$216,502	\$17,257	\$4,599	\$0	\$0	\$0	\$0	\$0	\$4,599	\$5,162,299	Expenditures here include sediment removal, fuel system upgrades, life-cycle efficiency analysis to inform future upgrades, and priority items from recently completed needs assessment (2015). New line items established below to account for discrete project elements.
100	WLFL8 BRPS CONTROL BLDG REPLCMT	Green	FCD Const	\$50,000	\$0	\$480,368	\$50,000		\$530,368	\$1,554,622	\$7,577,624	\$25,887	\$0	\$0	\$9,688,501	\$9,688,501	This project will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the control building, replacement of the trash rake system, and replacement of the screen spray system.
101	WLFL8 BRPS FISH PASS IMPRVMTS	Green	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$831,751	\$2,241,456	\$6,316,655	\$9,389,862	\$9,389,862	This project will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage systems.
102	WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	\$252,900	\$44,098	\$221,179	\$208,802		\$429,981	\$1,414,074	\$25,133	\$0	\$0	\$0	\$1,669,188	\$1,913,286	This project will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which run much more frequently than the other, larger pump engines.
103	WLFL8 BRPS SUPPORT SYS UPGRADES	Green	FCD Const	\$0	\$0	\$0	\$0		\$0	\$175,261	\$822,168	\$779,584	\$26,663	\$0	\$1,803,676	\$1,803,676	This project will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control panels, cooling systems, oilers and hoists.
104	WLFL8 DESIMONE USACE 2015	Green	Agreement	\$2,553,520	\$884,958	(\$923,922)	\$1,676,662	(\$752,146)	\$2,594	\$0	\$0	\$0	\$0	\$0	\$2,594	\$887,552	Cost-share flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016.
105	WLFL8 DYKSTRA USACE 2015	Green	Agreement	\$692,856	\$640,200	\$6,695	\$52,656	(\$98,710)	(\$39,360)	\$0	\$0	\$0	\$0	\$0	(\$39,360)	\$600,841	Cost-share flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016.
106	WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqui/Elev	\$368,856	\$368,856	\$5,000,000	\$0		\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$30,000,000	\$30,368,856	This project will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to construction schedules for those projects.
107	WLFL8 GREEN R PL84-99 MITIGATN	Green	FCD Const	\$4,043,987	\$4,055,796	\$1,616,554	(\$11,809)		\$1,604,745	\$52,000	\$25,000	\$25,000	\$0	\$0	\$1,706,745	\$5,762,541	This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program. The current mitigation effort is the Teufel project.
108	WLFL8 HSB BRENDA SETBACK	Green	Agreement	\$1,755,000	\$29,811	\$2,522,674	\$1,725,189		\$4,247,863	\$590,285	\$2,427,136	\$982,119	\$0	\$0	\$8,247,402	\$8,277,214	New project to implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe Bend Levee at the Breda reach (RM 24.46-24.72) to a more stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain the 500-year (0.2% annual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.
109	WLFL8 HSB MCCOY REALIGNMENT	Green	FCD Const	\$400,000	\$0	\$0	\$400,000		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	New project to implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a 'Minimally acceptable' rating by the USACE due to a slope deficiency at RM 24.3 (oversteepened slopes from 1.3 to 1.7H:1V for 500 feet). The City of Kent constructed a secondary containment levee in this reach, set back from the river's edge, which is currently not part of the federal levee. The only remaining structure between the two levees is a Puget Sound Energy facility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 at about RM 24.3 and RM 24.4, respectively. River bed scour in this reach between 1986 and 2011 is 2.7 feet at RM 24.24. Funding of \$400,000 covers the cost of major modification to the federal levee so that the City of Kent's secondary containment levee can be incorporated into the federal levee project.
110	WLFL8 HSB NURSING HOME SETBACK	Green	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$100,000	\$2,000,000	\$500,000	\$2,600,000	\$2,600,000	New project to implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened and does not meet current engineering standards. The economic consequence of the levee failure or overtopping to the lower Green River valley is extensive and could cause tens of millions of dollars in damage. This capital project area contains a 'Minimally Acceptable' deficiency by the US Army Corps of Engineers at RM 25.5 (over steepened slopes from 1.25 to 1.7H:1V for 225 feet). The Horseshoe Bend Levee Certification Report calculated a Factor of Safety (FOS) value for rapid drawdown of 1.01 at RM 25.57 (Section F). This is barely above the minimum FOS (1.0) from the US Army Corps of Engineers manual.
111	WLFL8 INTERIM SWIF IMPLEMENTATION	Green	FCD Const	\$30,000	\$2,650	\$0	\$27,350	\$40,000	\$67,350	\$0	\$0	\$0	\$0	\$0	\$67,350	\$70,000	Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in the operating budget.
112	WLFL8 LOWER RUSSELL ACQ KENT	Green	Agreement	\$1,000,000	\$0	\$0	\$1,000,000	\$23,550	\$1,023,550	\$0	\$0	\$0	\$0	\$0	\$1,023,550	\$1,023,550	Acquisitions by the City of Kent for the Lower Russell levee setback project.
113	WLFL8 LWR GRN R CORRIDOR PLANEIS	Green	Agreement	\$1,743,249	\$129,701	\$0	\$1,613,548		\$1,613,548	\$0	\$0	\$0	\$0	\$0	\$1,613,548	\$1,743,249	Lower Green River Corridor Planning and Environmental Impact Statement.
114	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	FCD Const	\$12,077,130	\$10,792,961	\$2,478,806	\$1,284,169	\$6,000,000	\$9,762,977	\$13,910,520	\$18,357,812	\$63,028	\$0	\$0	\$42,094,337	\$52,887,298	Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile 17.85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat. Increased expenditure authority to match interim SWIF adopted by Board of Supervisors.
115	WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Agreement	\$8,500,000	\$108,711	\$0	\$8,391,289		\$8,391,289	\$0	\$0	\$0	\$0	\$0	\$8,391,289	\$8,500,000	Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land rights. Current ILA with Kent for this first phase is \$3.65 million, the ILA assumes that the total project cost is \$8.5 million.
116	WLFL8 PATTON BRIDGE 3015	Green	Agreement	\$150,000	\$47,524	\$0	\$102,476		\$102,476	\$0	\$0	\$0	\$0	\$0	\$102,476	\$150,000	This project will address scour damage to the bridge, which is on the primary through route of the Green River Valley Rd. The bridge is also a King County landmark.
117	WLFL8 PORTER LEVEE	Green	FCD Const	\$720,000	\$300,000	\$0	\$420,000		\$420,000	\$0	\$0	\$0	\$0	\$0	\$420,000	\$720,000	Contribute the cost of a repair (\$720,000) to a \$7 million levee setback project. By relocating the levee, future repair costs for the Flood Control District are reduced. In response to community concerns, the project also includes funding to elevate the road so that the school bus serving this neighborhood does not have to drive in the oncoming lane to avoid floodwaters.
118	WLFL8 REDDINGTON REACH SETBACK	Green	FCD Const	\$16,889,083	\$16,570,959	\$0	\$318,124	(\$317,656)	\$268	\$0	\$0	\$0	\$0	\$0	\$268	\$16,571,227	Project expenditures will continue into 2017, closeout anticipated in 2018.
119	WLFL8 RUSSELL RD UPPER KENT	Green	Agreement	\$6,072,173	\$6,061,985	\$0	\$10,188	\$10,000	\$20,188	\$0	\$0	\$0	\$0	\$0	\$20,188	\$6,082,173	Project is to improve the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. These segments of the Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.
120	WLFL8 S 180TH ST BRIDGE FLOODWALL EXT	Green	Agreement	\$65,378	\$0	\$0	\$65,378		\$65,378	\$0	\$0	\$0	\$0	\$0	\$65,378	\$65,378	The project will increase the height of a flood wall to provide approximately 30" of additional flood protection.
121	WLFL8 OLD JEFF'S FARM REVETMENT	Green	FCD Const	\$300,000	\$171,983	\$1,726,802	\$128,017		\$1,854,819	\$1,428,198	\$0	\$0	\$0	\$0	\$3,283,017	\$3,455,000	This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. No design or construction funding at this time.
122	WLFL8 SE 380 PL AT SR 164	Green	Agreement	\$0	\$0	\$90,000	\$0		\$90,000	\$100,000	\$400,000	\$100,000	\$0	\$0	\$690,000	\$690,000	This project will analyze culvert replacement and road-raising options and implement the preferred option.
123	WLFL8 SE 384 ST @ 176 AVE SE	Green	Agreement	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$150,000	\$1,500,000	\$1,650,000	\$1,650,000	These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent loosening approaches during flooding. A similar repair was done on Woodinville-Duval Bridge No. 1136D.
124	WLFL8 SIGNATURE POINTE REVETMENT	Green	Agreement	\$300,000	\$0	\$0	\$300,000		\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	Signature Pointe is a revetment/levee on the Green River between river mile 22.06 and 23.18 that does not meet the FEMA requirements for accreditation due to inadequate freeboard. This project includes development of a project charter and an alternatives analysis to select an alternative to achieve increased flood protection, embankment and toe protection in a manner that can be certified and accredited.
125	WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	Repair of the recent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The revetment protects an adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road.

No.	Title	Basin	Type of project	2017 Inception to Date Budget	2017 Inception to Date Expenditure	2018 Adopted	2017 Carryover	2018 Reallocation Request	2018 Revised	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	6-Year CIP Total (including 2017 Carryover)	Project Life Total	Comments
126	WFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const			\$0	\$0		\$0	\$0	\$0	\$0	\$1,500,000	\$300,000	\$1,800,000	\$1,800,000	New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwall and sloped embankment to protect adjacent businesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized during the project design phase.
127	WFL8 TUK-205 SEGAL FLOODWALL	Green	FCD Const	\$0	\$0	\$0	\$0		\$0	\$601,000	\$562,754	\$3,188,003	\$3,283,643	\$7,635,400	\$7,635,400	New project to implement interim SWIF adopted by Board of Supervisors. The Gaco portion of the Tukwila-205 levee between river mile 15.75 and 15.88 is over-steepened and damaged and cannot be adequately repaired using the existing easements. This project would acquire properties landward of the damaged levee to enable a levee setback and repair of the embankment and toe scour at this outside band, in coordination with the Army Corps of Engineers PL 84-99 rehabilitation program.	
128	WFL8 TUK-205 USACE GACO REPAIR	Green	Agreement	\$9,064,053	\$382,418	\$3,796,580	\$8,681,635	(\$6,000,000)	\$6,478,215	\$15,913	\$0	\$0	\$0	\$0	\$6,494,128	\$6,876,546	600 feet of scour has exposed rock armor. No sign of armor loss. Interim SWIF capital project is for 0.33 miles of floodwall and toe/scour protection. Increased vulnerability to further scour and damage to facility.
129	Green-Olympic Subtotal			\$9,064,053	\$382,418	\$3,796,580	\$8,681,635	(\$6,000,000)	\$6,478,215	\$15,913	\$0	\$0	\$0	\$0	\$6,494,128	\$6,876,546	
130																	
131																	
132	WFL9 BUTTE AVE FLOOD MITIGATION	White	Agreement	\$470,000	\$0	\$0	\$470,000		\$470,000	\$0	\$0	\$0	\$0	\$0	\$470,000	\$470,000	This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algonia by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to flooding.
133	WFL9 COUNTY LINE TO A STREET	White	FCD Const	\$24,004,419	\$23,380,886	\$0	\$623,533		\$623,533	\$0	\$0	\$0	\$0	\$0	\$623,533	\$24,004,419	Reduces flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million content value), improves sediment storage and enhances habitat.
134	WFL9 RED CREEK ACQUISITIONS	White	FCD Acqui/Elev	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	Permanently eliminate the risk to public safety along this reach by acquiring and removing residential structure. Placeholder funding for appraisal and/or grant match dependent on landowner willingness.
135	WFL9 RIGHT BANK LEVEE SETBACK	White	FCD Const	\$12,151,199	\$11,009,469	\$1,079,358	\$1,141,730		\$2,221,088	\$1,989,187	\$7,887,849	\$5,797,495	\$69,556	\$0	\$17,985,175	\$28,974,644	Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River Estates neighborhood.
136	WFL9 SLIPPERY CREEK ACQ	White	FCD Acqui/Elev	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	Acquire property at the confluence of Slippery Creek and the White River.
137	WFL9 WHITE - GREENWATER ACQ	White	FCD Acqui/Elev	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	This project would acquire flood prone residence along the White River near the Greenwater River.
138	White Subtotal			\$12,151,199	\$11,009,469	\$1,079,358	\$1,141,730	\$100,000	\$2,414,821	\$1,989,187	\$7,887,849	\$5,797,495	\$69,556	\$200,000	\$18,274,766	\$29,149,288	
139																	
140																	
141	WFLS SOUTH PARK PUMPSTATION	Seattle	Agreement	\$6,001,331	\$1,786,262	(\$4,215,112)	\$4,215,069	\$43	\$0	\$0	\$4,718,738	\$0	\$0	\$0	\$4,718,738	\$6,505,000	Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project schedule. Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
142	WFLS S PARK DRAINAGE IMPROVEMENTS	Seattle	Agreement	\$1,000,000	\$219,074	\$0	\$780,926		\$780,926	\$1,550,000	\$1,455,000	\$0	\$0	\$0	\$3,785,926	\$4,005,000	The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. The conveyance improvements will work in conjunction with the Pump Station.
143	Seattle Subtotal			\$7,001,331	\$2,005,336	(\$4,215,112)	\$4,995,995	\$43	\$780,926	\$1,550,000	\$6,173,738	\$0	\$0	\$0	\$8,504,664	\$10,510,000	
144																	
145																	
146	WFLX CORRIDOR PLN DESIGN/CONST PLAC	Countywide	FCD Const	\$142,610	\$0	\$0	\$142,610		\$142,610	\$0	\$0	\$0	\$0	\$27,000,000	\$27,142,610	\$27,142,610	Placeholder for corridor plan implementation project(s)
147	Countywide Corridor Plan Imp Subtotal			\$142,610	\$0	\$0	\$142,610		\$142,610	\$0	\$0	\$0	\$0	\$27,000,000	\$27,142,610	\$27,142,610	
148																	
149																	
150	WFLG FLOOD REDUCTION GRANTS	Countywide	Grant	\$11,600,690	\$7,208,617	\$3,085,308	\$4,392,073		\$7,477,379	\$3,161,211	\$3,232,718	\$3,303,258	\$3,374,100	\$3,445,293	\$23,993,959	\$31,202,576	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
151	WFLG WRIA GRANTS	Countywide	Grant	\$23,099,255	\$15,445,614	\$4,520,525	\$7,653,641		\$12,174,166	\$4,654,617	\$4,792,687	\$4,934,853	\$5,081,235	\$5,231,960	\$36,869,518	\$52,315,133	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
152	WFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	\$2,218,519	\$1,892,356	\$1,076,734	\$326,163		\$1,402,897	\$702,778	\$830,323	\$813,940	\$767,476	\$510,698	\$5,028,112	\$6,920,468	Evaluation of capital projects to determine effectiveness and identify project design improvements.
153	WFLQ SUBREGNL OPPRTNTY FUND	Countywide	Grant	\$43,883,271	\$31,603,504	\$5,738,670	\$12,079,766		\$17,818,436	\$5,879,852	\$6,012,856	\$6,144,060	\$6,275,827	\$6,408,245	\$48,539,276	\$80,142,781	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
154	WFLX CENTRAL CHARGES	Countywide	FCD Const	\$781,493	\$704,514	\$130,000	\$76,979		\$208,979	\$132,600	\$136,252	\$137,957	\$140,716	\$143,531	\$897,034	\$1,601,549	Central charges related to the FCD's capital fund.
155	WFLX FLOOD EMERGENCY CONTNGNCY	Countywide	FCD Const	\$800,917	\$415,234	\$0	\$385,683		\$385,683	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,635,683	\$2,050,917	Contingency for emergency response actions during a flood event.
156	Countywide Subtotal			\$82,164,145	\$57,265,840	\$14,551,232	\$24,914,304	\$0	\$30,465,539	\$14,761,268	\$15,251,836	\$15,564,668	\$15,689,324	\$15,989,728	\$116,883,563	\$174,235,421	
157																	
158	Grand Total			\$148,149,045	\$250,509,934	\$53,488,926	\$97,639,111	(\$6,223,551)	\$148,812,487	\$69,601,991	\$87,510,554	\$44,311,425	\$38,624,458	\$61,080,837	\$482,131,952	\$703,184,224	

2018 Mid-Year Budget Revision: Capital Carryover and Reallocation

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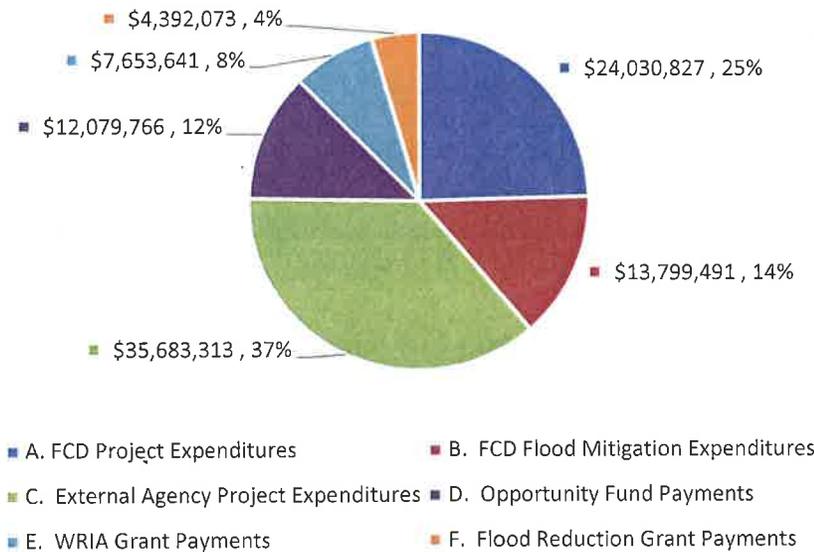
Introduction

The purpose of the mid-year budget revision is to (1) adopt (or “carryover”) capital expenditure authority from 2017 and (2) reallocate expenditure authority for technical adjustments or changes to project scope or schedule. The types of 2017 capital carryover are described below, along with illustrative examples. The reallocation request is itemized in the attached table, including a brief description of each requested adjustment.

Overview of 2017 Capital Carryover

The total capital carryover request for 2017 is \$97.64 million. This amount is distributed across the categories shown in Figure 1. Of the total capital carryover, 61% (\$59.8 million) is for grants and agreements managed by other agencies. The remaining 39% (\$37.8 million) is for FCD construction, acquisition, and elevation projects managed by King County WLR. Examples from each category are described below.

Figure 1: 2017 Capital Carryover by Type



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

The total carryover across these three grant programs is \$24.1 million, including \$12 million in the Opportunity Fund. Carryover results from expenditure delays such as design, permit or real estate issues, as well as from jurisdictions choosing to defer or “bank” their Opportunity Fund allocation until it is sufficient to fund a project. For the WRIA and Flood Reduction Grants there is also a time lag in grant program expenditures between appropriation of funds, adoption of recommended projects, execution of agreements, implementation, and reimbursement of expenditures.

Other Agency Agreements

2018 Mid-Year Budget Revision: Capital Carryover and Reallocation

This category includes projects implemented with other agencies through agreements with either the Flood Control District or King County, as well as flood damage repairs implemented by the Corps of Engineers under the PL 84-99 program. Highlights include:

1. Green River Army Corps of Engineers Gaco Repair (Line 32, \$8.6 million). Acquisition funding was added in mid-2017 budget to support a potential levee setback; landowners were unwilling to sell. Corps will proceed with repair-in-place rather than setting back the levee. \$6 million is recommended for disappropriation.
2. City of Kent Milwaukee #2 Levee (Line 113 - \$8.5 million): Expenditure authority was added in the 2015 mid-year budget, followed by a \$3.65 million agreement in 2016 between Kent and the Flood Control District for property acquisition and engineering analysis of project alternatives. Additional design and implementation expenditures will not occur until the agreement is amended by the Board. ILA with Kent anticipated 2017 construction and a total cost not to exceed \$8.5 million. A portion of the existing expenditure authority could be adjusted to more accurately reflect Kent's anticipated schedule for project expenditures.
3. City of Seattle South Park Pump Station and Drainage Improvements (Lines 138 and 139 - \$5 million for two projects): 2018 budget includes disappropriation of \$4.2 million for the pump station; expenditures are now shown in 2020-2021 based on most recent project schedule.
4. City of Kent Horseshoe Bend Breda Levee Setback (Line 106 - \$1.7 million): Expenditures will not occur until an ILA is adopted and a project charter is approved.
5. Lower Green River Corridor Plan and EIS (Line 75 - \$1.6 million): This expenditure authority was added in the mid-year 2016 capital budget; expenditures tied to Lower Green River Corridor plan schedule.
6. City of Kent Lower Russell Acquisitions (Line 91 - \$1 million): Acquisition funding added mid-2017; ILA between Kent and the FCD has now been approved; an invoice from the City of Kent is expected soon.
7. City of Pacific Butte Avenue Pump Station (Line 102 - \$470,000): Design funding added to mid-2017 budget, service agreement with King County authorizing work currently in negotiation. Expenditures will not occur until service agreement and project charter are approved.
8. Kent Signature Pointe (Line 110 - \$300,000): Design funding added to mid-2017 budget, ILA authorizing expenditures adopted by Flood Control District in April 2018, per the ILA expenditures will not commence until project charter approved. The ILA anticipated construction in 2019; at this time no District funding is allocated beyond consideration of design alternatives.

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

2018 Mid-Year Budget Revision: Capital Carryover and Reallocation

Carryover for acquisition or elevation of at-risk structures totals approximately \$13.8 million. The pace of home elevation expenditures are controlled by the homeowner, who executes the work under a separate agreement with a contractor and then seeks reimbursement for eligible expenses.

1. \$5 million for acquisitions on the Cedar River (Lines 77, 79, and 84), including revenue-backed expenditures from a Washington State Floodplains by Design grant. Landowner negotiations are underway following FCD approval and carryover funds are forecast to be spent in 2018.
2. \$4.3 million for mitigation of at-risk homes in the Snoqualmie basin, including elevation of at-risk homes, as well as acquisitions of at-risk homes cost-shared with the City of Snoqualmie (Lines 29, 34, and 36). Pace of expenditures is determined by landowner; propose disappropriation of a portion of this carryover in mid-year budget revision.

FCD Projects (Construction, Repair, and Corridor Planning)

This category totals \$24 million and is 25% of the capital carryover. The category is composed of capital planning, repair, and construction projects that are implemented by WLR Division on behalf of the FCD.

1. The largest carryover for projects implemented by WLR on behalf of the FCD is for the South Fork Snoqualmie I-90 project (Line 19 - \$4.1 million); funding was disappropriated in the 2018 budget based on the District's decision to reprioritize this project to the long-term category of the South Fork Snoqualmie capital investment strategy.
2. Over \$800,000 of carryover for flood damage repair projects that were completed in 2017 and projects are closed out in the mid-year reallocation (lines 1, 5, 10, 15).
3. Funding carried over from 2017 is forecasted to be spent in 2018 for multiple large engineering design and construction projects, including design of the Willowmoor Floodplain Reconnection project on the Sammamish River (Line 73 - \$1.26 million), and Lower Russell Levee Setback (Line 112 - \$1.28 million) projects on the Green River, the Pacific Right Bank project on the White River (Line 132 - \$1.14 million), and construction of the SE 19th Way project on the Lower Snoqualmie River (Line 37 - \$1.1 million).