## **King County Flood Control District**

## 2019 - 2024 Six-Year CIP Project Allocations Attachment H

11/1/2018

Capital Investment Strategy Project

Grant/External Revenue Awarded

Cost Share Contribution to Others

New Project - 2018 Revised or 2019 Proposed

Added by Advisory Committee

		_					•	_	Added by Adviso	ory Committee						<u></u>
			2017 Inception	2018												
			to Date	Inception to	2018 Available	2019	2020	2021	2022	2023	2024	6-Year CIP	CIS	CIS	Project Life	
No. Title	Basin	Type of project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	Year 7-10	10+ Year	Total	Comments
			i i	Ŭ	J		,	,	<u> </u>	Í	Í					Demogra to reversions Very large real removed from reversions particularly and
																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 Diver Bood could be accorded demaged. Constructed 2017
1 WLFL0 MILLER R RD RVTMNT 2016 REPAIR	SF Skykomish	FCD Const	\$237,560	\$239,182	\$1,622	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$239,182	The repaired, Miller Rever Read Social So Severely damaged. Seriellation 2017.
																This project will elevate or buyout individual structures in the South Fork Skykomish
2 WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	FCD Acqu/Elev	\$746,937	\$745,404	(\$1,533)	\$0	90	\$0	\$0	\$0	\$119,405	\$119,405			\$864,809	Basin to eliminate the risk of flooding or erosion damage during future flood events.
2 WEFEO OF SKIRWISH KEF EOOS WIT	3F 3KyKUIIIISII	FOD Acqu/Elev	\$740,937	\$745,404	(\$1,000)	φυ	φυ	φ0	ΨΟ	φυ	\$119,405	\$119,405			\$004,009	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
3 WLFL0 SKY W RVR DR FLOOD STUDY	SF Skykomish	FCD Const	\$2,856	\$81,237	\$78,381	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$81.237	the Town of Skykomish.
			. ,	. ,	+ -/	¥ -	* -	, ,	+ -	* -	* -	* -			, , ,	
																Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
4 WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const	\$85,402	\$150,000	\$64,599	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$150,000	
																Three pockets of missing armor rock: 15, 10 and 75 feet wide and eroded topsoil from
		F0D 0 .	<b>#</b> 400.455	<b>#</b> 404 400	<b>*</b>	<b>*</b>										upper sections of levee. Further flooding may compromise or severely damage
5 WLFL0 SKYKOMISH LB UP 2016 REPAIR	SF Skykomish	FCD Const	\$120,455	\$121,136	\$681	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$121,136	· · · · · · · · · · · · · · · · · · ·
																This project will continue to acquire and remove homes along a stretch of the
6 WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqu/Elev	\$1,888,350	\$2,809,874	\$921,524	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$2,809,874	Skykomish River that are endangered by erosive forces as well as inundation in some
WEI EO HIWIDER EN ERCON BOTCOTS	Of Okykoniish	1 OD Acqu/Liev	ψ1,000,330	Ψ2,009,074	Ψ921,324	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ			Ψ2,009,074	Project will lay back the privately-built rockery to reconstruct rock wall into stable
7 WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	FCD Const	\$11,115	\$16,040	\$4,925	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$16.040	revetment geometry. Will likely be implemented by the Strike Team.
	- Conjunction		<b>+</b> · · · · · · · · · · · · · · · · · · ·	<b>410,010</b>	¥ 1,0=0		**	***	7.0	**	**	7.2			<b>4</b> 10,010	Revetment is approximately 300 LF along left bank of South Fork Skykomish River.
																Unstable section of vertical stacked rock is approximately 150 LF (needs verification).
8 WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	FCD Const	\$0	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0	\$600,000			\$600,000	Failure has occurred previously in this section of revetment.
																Reduce neighborhood isolation from flooding. Develop a set of alternatives for
																improvements to 428th Avenue SE, SE 92nd Street, and Reinig Road to reduce the
0 144 514 400711 41/5 05 DD 554 01D11 17/		FOD 0	<b>COO4 004</b>	#004 004	<b>#</b> 40.000	Ф.		Φ0	Φ.Ο.	00	<b>#</b> 0	<b>#</b> 0			<b>#</b> 004.004	frequency of community isolation caused by fleedwaters evertenning those readways
9 WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	\$294,894	\$304,894	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$304,894	1 7 7 7 7 11 3 7
																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
10 WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	FCD Const	\$65,125	\$428,505	\$363,380	\$111,660	\$237,960	\$257,550	\$3,630,574	\$0	\$0	\$4,237,744			\$4,666,249	River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.
	орран энгэ		¥33,1=3	<b>V</b> 1	4000,000	<b>*</b> * * * * * * * * * * * * * * * * * *	Ψ=0.,000	<b>V</b> =01,000	40,000,011	¥-2	7.2	<del>+ 1,= 1,1</del>			<del>+ 1,000,</del> — 10	Large scour hole in bank at upstream end of Mason Thorson 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
	Upper Snoq	FCD Const	\$111	\$111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				failure, especially at upstream end.
12 WLFL1 MF SNO CORRIDOR IMP 13 WLFL1 MF SNO CORRIDOR PLAN	Upper Snoq Upper Snoq	FCD Const FCD Const	\$954 \$1,328,569	. , ,	\$1,099,046 \$496.343	(\$1,099,046) \$0	\$1,099,046 \$0	\$1,162,249 \$0	\$1,196,980 \$0	\$511,733 \$0	\$0 \$0	. , ,			\$3,970,962	Placeholder for corridor plan implementation project(s) Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2018.
13 WEFET MF SNO CORRIDOR FLAN	Opper Snoq	1 CD Const	\$1,320,309	Ψ1,024,912	φ490,343	φυ	ΨΟ	Φ0	φυ	φυ	ΨΟ	ΨΟ			\$1,024,912	Replace two existing rusted out 48" corrugated metal pipes on Norman Creek under
																428th Ave SE with a new precast concrete box culvert. The new culvert will reduce the
																time it takes to drain the flood waters off of private property by increasing the capacity
																of the crossing. Currently when the North Fork Snoqualmie River overflows water
																backs up against 428th and impedes use of the roadway as the Norman Creek
																crossing is the normal outflow for this flood water once the North Fork has overtopped
14 WLFL1 NORMAN CREEK DS CULV	Upper Snoq	Agreement	\$0	\$724,000	\$724,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$724,000	the adjacent levees.
AF IMI ELA NORMANI CREEK LIC 2024 CHILV	Linner Coon	A ========	Φ0	<b>*</b>	¢ο	\$0	Φ0	\$0	<b>*</b>	\$0	\$750,000	\$750,000			Ф <b>7</b> 50,000	Improve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by
15 WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	Agreement	\$0	Φ0	ΦΟ	Φ0	Φ0	\$0	\$0	Φ0	\$750,000	\$750,000			\$750,000	installing a new box culvert.
																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
16 WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Agreement	\$171,125	\$385,000	\$213,875	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$385,000	a flood, it is important to protect the piers and abutments from scour failure.
			·													Initiate feasibility study to mitigate the risk of scour damage to the North Fork Bridge
															1	by retrofitting the existing structure with deep foundations or alternative risk mitigation
17 WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	\$0	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000			\$200,000	strategies.
															1	Repair downstream 200 lineal feet of facility which is missing face rock and toe rock.
															1	A significant scour hole has formed around a City of Snoqualmie stormwater outfall
															1	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
															1	project. Project implemented by City of Snoqualmie as part of Riverwalk project,
18 WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	FCD Const	\$0	\$350,000	\$350,000	\$637,835	\$0	\$0	\$0	\$0	\$0	\$637,835			\$987.835	construction is scheduled for 2019.
2:1:52 25:0:1:2:	111	2 2 102	1		, , , , , , ,	, , , , , , ,	1	1	1	***	<u> </u>	, , , , , , ,			,,,,,,,,	
															1	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.
19 WLFL1 REIF RD 2016 REPAIR	Upper Snoq	FCD Const	\$32,187	\$33,484	\$1,297	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$33,484	<b>+</b> [' '
																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
20 WLFL1 REIF RD LEVEE IMPROVEMENTS	Unner Spog	FCD Const	\$0.0	\$0	¢Λ	\$0	\$265,438	\$318,421	\$385,937	\$457,218	\$0	\$1,427,014			\$1 A27 04A	Rd Levee. Potential solutions include: repair and/or raise levee in place / setback levee / gravel removal / home elevations.
20 JANTI EL VELL VO FEASE HALLONEMEN 12	Tohher 2004	I OD COURT		Ι Φ0	ΦU	Φυ	μ φ∠υυ,438	φ310,421	<u> </u> φοου,θο <i>1</i>	<u>φ+57,∠1δ</u>	I DO	φ1,421,014			<b>Ι</b> φ1,4∠1,U14	r perec / graver removar / nome elevations.

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				2018 Inception to	2018 Available	2019	2020	2021	2022	2023	2024	6-Year CIP	CIS	CIS	Project Life	
No. Title	Basin	Type of project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	Year 7-10	10+ Year	Total	Comments  Cost-share of \$8.4M levee setback project. The overtops at a 20-year or greater flood,
																inundating undeveloped property, railway lines and roadways. Project would reconnect
21 WLFL1 BENDIGO UPR SETBACK NORTH BE	Upper Snoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,250,000	\$4,250,000			\$4,250,000	25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant application for the remaining \$4.2 million
22 WLFL1 REINIG RD ELEVATIONS	Upper Snoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000			\$50,000	Elevate low section of Reinig Rd to alleviate flooding that blocks roadway.  Repair three primary damage sites just upstream and directly across from the South
23   WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	FCD Const	\$28,042	\$800,000	\$771,958	\$400,000	\$264,166	\$0	\$0	\$0	\$0	\$664,166			\$1,464,166	Fork Snoqualmie confluence totaling ~285 lineal feet. Construction is anticipated in
24 WLFL1 RIBARY CREEK	Upper Snog	FCD Const	\$0	\$0	\$0	\$636,492	\$815,106	\$2,338,618	\$2,408,777	\$0	\$0	\$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.
25 WLFL1 SF CIS MED TERM	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$47,200,000			Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
26 WLFL1 SF CIS LONG TERM	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	, ,	\$57,100,000		Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
25 WEI 21 OF GIG 2011G F211III	оррог опоч	T OB COMO	, , , , , , , , , , , , , , , , , , ,	Ψ0	40	<b>40</b>	<b>4</b> 0	Ψ	Ψ0	Ψ	Ψ.	Ψ0		ψο, , ι σο, σσο	ψοι, ισο,σοσ	Project identified by Board to alleviate potential flooding of I-90 in North Bend.
27 WLFL1 SF SNO CORR EARLY ACTION	Upper Snoq	FCD Const	\$1,420,044	\$1,433,887	\$13,843	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,433,887	Currently evaluating project alternatives, including levee setback and gravel removal.  SF Snoqualmie Corridor planning process and development of capital investment
28 WLFL1 SF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	\$2,568,062	\$2,572,480	\$4,418	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$2,572,480	strategy.
29 WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$0	\$295,673	\$295,673	\$92,327	\$374,439	\$727,790	\$657,297	\$0	\$0	\$1,851,853			\$2,147,526	Six levee deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired segment of levee in place.
			4		<b>^</b>	<b>4</b>		•		•					4	Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could
30 WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const	\$15,658	\$600,000	\$584,342	\$2,950,000	\$0	\$0	\$0	\$0	\$0	\$2,950,000			\$3,550,000	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). Scheduled for
31 WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	\$0	\$512,000	\$512,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$512,000	2018 construction.
																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
32 WLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const	\$0	\$209,000	\$209,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$209.000	relatively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding. Project scheduled for 2018 construction.
OZ WEI ET OF VIEW KWI ZOTT KEI TAK	Оррег споч	1 OD Const	ΨΟ	Ψ200,000	Ψ203,000	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ			Ψ200,000	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.
33 WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	
																Prepare a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the current bridge does
34 WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000			\$150,000	not provide enough hydraulic opening due to the transport of sediments and water overtops the approaches during floods.
																Flood damage repairs from January 2015 flood event. Locations include Mason-Thorson Ells and Mason-Thorson Extension (Middle Fork Snoqualmie); North Park
35 WLFL1 UPPER SNOQ 2015 FLOOD REPAIR	Upper Snoq	FCD Const	\$509,922	\$1,481,123	\$971,201	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,481,123	(North Fork Snoqualmie); and Record Office, Meadowbrook, and Railroad (Snoqualmie mainstem).
																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
36 WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/Elev	\$9,748,621	\$12,536,249	\$2,787,628	\$2,181,301	\$2,412,151	\$2,484,516	\$2,559,051	\$2,635,823	\$2,714,897	\$14,987,739			\$27,523,988	be elevated or acquired. This amount assumes 10-12 home elevations per year.  Ensure eleven South Fork Snoqualmie River levees meet the standards of the US
37 WLFL1 USACE PL 84-99 SF SNO	Upper Snog	FCD Const	\$0	\$150,223	\$150,223	\$183,154	\$352,868	\$363,454	\$0	\$0	\$0	\$899,476			\$1.049.699	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
					,,	*, -	, , , , , , , , , , , , , , , , , , , ,	, , , , ,	***	*-	* -	<b>,</b> , , , , , , , , , , , , , , , , , ,			* ,,	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
38   WLFL2 DUTCHMAN RD REPAIR	Lower Snog	FCD Const	0.0	\$548,593	\$548,593	\$200,000	\$0	0.0	0.0	\$0	\$0	\$200,000			\$748.593	the road (West Snoqualmie Valley Road NE) which would severely limit access to the downstream property owners during or following a flood event.
36 WEFEZ DOTGI IWAN RD REFAIR	Lower Snoq	T CD Const	ΨΟ	Ψ040,090	ψ040,090	\$200,000	Φ0	φυ	Φ0	φυ	φυ	\$200,000			φ <i>1</i> 40,393	The foundation of the main-span pier is exposed and is vulnerable to destabilization
39 WLFL2 L SNO SCOUR REPAIR 2017	Lower Snoq	Agreement	\$9,244	\$150,000	\$140,756	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$150,000	during a flood. Add scour mitigation measures to protect footing. Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
																This project provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of
40 WLFL2 FARM PAD PROGRAM	Lower Snoq	FCD Const	\$759,345	\$875,617	\$116,272	\$104,186	\$115,214	\$118,670	\$122,230	\$125,897	\$129,674	\$715,871			\$1,591,488	flooding. Specific project actions include farm pads and elevation or flood proofing of agricultural structures.
41 WLFL2 L SNO REP LOSS MITGTION	Lower Snoq	FCD Acqu/Elev	\$1,269,231	\$1,695,671	\$426,440	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,695,671	
																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
42 WLFL2 L SNO/ALDAIR CORRDOR PLN	Lower Snoq	FCD Const	\$5,860,655	\$7,365,814	\$1,505,159	\$0	\$636,540	\$0	\$0	\$0	\$0	\$636,540			\$8,002,354	flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
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			2017 Inception to Date	2018 Inception to	2018 Available	2019	2020	2021	2022	2023	2024	6-Year CIP	CIS	CIS	Project Life	
No. Title	Basin	Type of project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	Year 7-10	10+ Year	Total	Comments  This project provides technical and cost-sharing assistance to residential and
																agricultural landowners in the Lower Snoqualmie floodplain to help them better
43 WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snog	FCD Acqu/Elev	\$2,151,873	\$3,278,317	\$1,126,444	\$265,292	\$530,450	\$546,363	\$562,754	\$579,637	\$597,026	\$3,081,522			\$6 359 839	withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
	·	·		, , ,		,	. ,	ψ040,000	,		,	ψ5,001,022				Rebuild revetment to protect road access to high value agricultural operations and
44 WLFL2 SE 19TH WAY REVETMENT	Lower Snoq	FCD Const	\$595,008	\$1,916,294	\$1,321,286	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,916,294	lands. Construction scheduled for 2018.  Reduce neighborhood isolation from flooding. Prevent slope failure of sole access
45 WLFL2 SE DAVID POWELL RD DOWNSTREA	Lower Snoq	FCD Const	\$588,184	\$1,036,456		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,036,456	roadway that would isolate 150 homes.
																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
46 WLFL2 L SNO 2019 BANK REPAIR	Lower Snoq	Agreement	\$133,968	\$1,100,000	\$966,032	\$1,100,000	\$0	\$0	\$0	\$0	\$0	\$1,100,000			\$2,200,000	undercutting of the riverbank and roadway.
47 WLFL2 SE FISH HATCHERY RD	Lower Snog	FCD Const	\$451,804	\$527,905	\$76,101	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$527.905	Reduce neighborhood isolation from flooding. Prevent slope failure of sole access roadway that would isolate 20-30 homes.
** ************************************		. 02 0001	<b>\$</b> 10.1,00.1	ψο_:,σσσ	ψ. σ, . σ .	40	Ψ0	Ψ	4,0	ΨÜ	Ψ0	43			ψο=: ,σσσ	Large capital project to repair 1000 linear feet of the Sinnema Quaale 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
48 WLFL2 SINNEMA QUAALE 2011 REPR	Lower Snoq	FCD Const	\$12,432,743	\$12,508,516	\$75,773	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$12,508,516	2018.
																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
40 144 510 00000000000000000000000000000				0.0	Φ0	0.0	Φ0	<b>#050.000</b>	<b>#</b> 050 000	Φ0	Φ0	<b>#</b> 500.000			<b>#</b> 500.000	most cost effective to improve in the valley with chronic flood issues impacting over
49 WLFL2 SNOQUALMIE VALLEY FEAS	Lower Snoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0	\$0	\$500,000			\$500,000	25,000 daily drivers.  This project will implement a repair to approximately 250 feet of damage identified in
																late March 2018 to a section of the Stossel Bridge Right Bank Revetment on the
50 WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	\$0	\$850,000	\$850,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$850,000	Snoqualmie River, downstream of the City of Carnation. The repair will be implemented by October 2018.
		FOD Count	Φ0	<b>#</b> 0		#200 000	<b>#470.000</b>	<b>#</b> 500,000	<b>#0.500.000</b>	Φ0	<b>*</b>	Фо 070 000				Placeholder costs for long-term facility improvement project to prevent erosion
51 WLFL2 STOSSEL LONG TERM REPAIR	Lower Snoq	FCD Const	\$0	\$0	\$0	\$200,000	\$170,000	\$500,000	\$2,500,000	\$0	\$0	\$3,370,000			\$3,370,000	undermining 310th Ave NE.  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
52 WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	FCD Const	\$2,917,631	\$10,736,868	\$7,819,237	\$41,200	\$0	\$0	\$0	\$0	\$0	\$41,200			\$10,778,068	threatens to undermine the Seattle Public Utilities water supply line at this location south of Duvall. Construction scheduled for 2018.
																These true bridges are subject to be ring the readings on spreads fill week out during a
																These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent loosing approaches
53 WLFL2 DUVALL SLOUGH 2017 IMPRV	Lower Snoq	Agreement	\$15,078	\$400,000	\$384,922	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$400,000	during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
																Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank relative to upstream
																and downstream undamaged levee sections. Top of damaged face approximately 6
																feet from edge of gravel trail. Continued erosion will cut off popular riverside trail.  Potential impact to highway if facility breaches during a major flood. Scheduled for
54 WLFL3 FREW LEVEE 2016 REPAIR	Tolt	FCD Const	\$66,450	\$360,360	\$293,910	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$360,360	2018 construction.  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
55 WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	FCD Const	\$745	\$311,000	\$310,255	\$0	\$0	\$0	0.2	\$0	\$0	0.2			\$311,000	rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Scheduled for 2018 construction.
55 WEFLS GIRL SCOUT LEVEE 2010 REPAIR	Toll			φ311,000	φ310,233	40	ΦΟ	ΦΟ	ΦΟ	ΦΟ	ΦΟ	φυ			φ311,000	Facility failure has consequences for property owners immediately landward of
56 WLFL3 HOLBERG 2019 REPAIR	Tolt	FCD Const	\$750	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000			\$500,000	facility. Potential for high flows and erosive damage to residences and property.
																Feasibility study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from the regulatory Channel
57 WLFL3 HOLBERG FEASIBILITY	Tolt	FCD Const	\$750	\$200,000	\$199,250	\$0	\$0	\$0	90	\$0	\$0	\$0			\$200,000	Migration Zone as mapped in the March 2017 Draft Tolt River Channel Migration study
WEI ESTIGEBERG I ENGINEETT	Tole	1 0D Conot	ψ, σσ	Ψ200,000	Ψ100,200	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ			Ψ200,000	Capital Investment Strategy: Design, based on level of service analysis, the highest
58 WLFL3 LOWER FREW LEVEE SETBACK	Tolt	FCD Const	\$93,007	\$1,411,000	\$1,317,993	(\$932.336)	\$1,411,000	\$1,470,384	\$0	\$0	\$0	\$1,949,048			\$3,360,048	priority levee setback for flood risk reduction. Phase 2 construction estimated in CIS at \$14.5M-\$16.7M
						(+ //		<b>4</b> ., <b>3</b> , <b>3</b>	•	·		. , ,				Acquisition between the Swiftwater development and the river for the future setback of
59 WLFL3 LOWER TOLT RIVER ACQUISITION	I olt	FCD Acqu/Elev	\$529,475	\$744,475	\$215,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$744,475	the Upper Frew Levee  Damage is approximately 60 lineal feet of the facility with missing toe rock and
																undermined face rock near the Snoqualmie Valley Trail. The damage is at the
																downstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger property. Scheduled for 2018
60 WLFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	FCD Const	\$0	\$311,000	\$311,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$311,000	construction.
61 WLFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acqu/Elev	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000			\$1,000,000	Capital Investment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available.
		·		,	·	·		·	·	·	. ,	. ,			. , ,	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. Approximatlely 20 homes
CO WILE O CAN COLOUND DUOCE DU NOUT	Tol <sup>4</sup>	FOD 4 /5'	<b>#4.400.000</b>	<b>#F FF0 050</b>	Φ4 OF 4 = 4 =	<b>^</b>	*~	40	00	40	<b>^</b>	<b>*</b>			<b>ФЕ ЕЕО ОЕО</b>	removed from high hazard areas within and just upstream and downstream of San
62 WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqu/Elev	\$4,198,636	\$5,553,353	\$1,354,717	\$0	\$0	\$0	\$0	\$0	\$0	\$0			<b>\$5,553,353</b>	Souci neighborhood.  Capital Investment Strategy: Construct Tolt Road NE road elevation in one location.
63 WLFL3 SAN SOUCI REACH IMPRVMNTS	Tolt	FCD Const	\$0	\$100,000	\$0	\$60,000	\$190,000	\$700,000	\$700,000	\$750,000	\$0	\$2,400,000			\$2,500,000	Remove illegal revetment and roads in San Souci neighborhood.
																Capital Investment Strategy: Conduct sediment management feasibility study and
64 WLFL3 SEDIMENT MGMT FEAS	Tolt	FCD Const	\$0	\$209,605	\$209,605	\$193,200	\$0	\$0	\$0	\$0	\$0	\$193,200			\$402,805	develop a plan. Update and include upper watershed sediment production estimates
																Capital Investment Strategy: Initiate study (with potential future design and construct)
65 WLFL3 SR 203 BR IMPRVMNTS FEAS	Tolt	FCD Const	\$0	\$205,743	\$205,743	\$190,157	\$0	\$0	\$0	\$0	\$0	\$190,157			\$395,900	
66 WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	FCD Const	\$46,909	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Flood damage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp.
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			2017 Inception to Date	2018 Inception to	2018 Available	2019	2020	2021	2022	2023	2024	6-Year CIP	CIS	CIS	Project Life	
No. Title	Basin	Type of project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	Year 7-10	10+ Year	Total	Comments  Implement projects identified in the Capital Investment Strategy, approved as policy
67 WLFL3 TOLT CIS MED TERM	Tolt	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$88,500,000			direction by the Executive Committee.  Implement projects identified in the Capital Investment Strategy, approved as policy
68 WLFL3 TOLT CIS LONG TERM	Tolt	FCD Const	\$0	\$1,153,657	\$1,153,657	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$28,800,000	\$29,953,657	direction by the Executive Committee.  The corridor plan for the lower 6 miles of the Tolt River will develop a prioritized
69 WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const	\$1,134,500	\$1,153,657	\$19,157	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1.153.657	implementation strategy for near-term and long-term floodplain management actions.  Scheduled for adoption in 2017.
70 WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	FCD Const	\$78,484	\$553,250		\$160,234	\$0	\$0	\$0	\$0	\$0	\$160,234				Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits
70 WEI 20 TOET IN 22 VEZ 2.0.0.71147/21010	1010	1 02 00101	ψ/ O, 10 1	φοσο,2σο	ψ 17 1,7 00	ψ100,201	Ψ	Ψ	Ψ0	Ψΰ	Ψ0	Ψ100,201			Ψ7 10, 10 1	Acquisition funding for high risk properties in levee setback project area. Project
71 WLFL3 TOLT R MILE 1.1 SETBACK	Tolt	FCD Acqu/Elev	\$4,110,305	\$4,906,106	. ,	\$200,000	\$0 \$106.090	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$200,000			\$5,106,106	priorities will be determined by the Board through adoption of the Tolt Corridor Plan.
72 WLFL3 TOLT R NATURAL AREA ACQ	Tolt	FCD Acqu/Elev	\$1,671,614	\$2,985,067	. , ,	\$520,000	+,	\$0	\$0	* -	* -	\$626,090				Capital investment strategy: acquire at-risk homes from willing sellers.  Reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections
73 WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	FCD Const	\$45,001	\$250,000	\$204,999	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$250,000	of Tolt River Road.  Capital Investment Strategy: Initiate design for elevation of one road location to reduce
74 WLFL3 TOLT R RD NE IMPROVEMENTS	Tolt	FCD Const	\$0	\$0	\$0	\$0	\$53,045	\$109,273	\$236,357	\$927,419	\$1,200,000	\$2,526,094			\$2,526,094	or eliminate isolation. Implement additional road elevations as funds become available.
																Capital Investment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and floodwater
75 WLFL3 UPPER FREW LEVEE SETBACK	Tolt	FCD Const	\$0	\$0	\$0	\$0	\$106,090	\$109,273	\$168,826	\$0	\$0	\$384,189			\$384,189	conveyance; protect adjacent development; reduce damage to trail bridge.
76 MUELA ALDINE MANOD NEICHBODHOOD BL	Dogina	ECD Aggu/Elov	\$1,753,460	\$1,853,460	£100.000	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>*</b> 0			\$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.
76 WLFL4 ALPINE MANOR NEIGHBORHOOD BU	Raging	FCD Acqu/Elev	\$1,755,460	\$1,653,460	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,853,460	Repair 150 lineal feet of discontinuous damage and missing toe rock. The levee
																protects the landward area from flooding and serves as the road embankment for Dike Rd, an access road to the Fall City boat launch. The damaged levee section is
																immediately adjacent to the Twin Rivers golf course barn, which would experience greater flooding if the levee were breached. Scheduled for 2018 construction.
77 WLFL4 RAGING MOUTH TO BR 2017 REPAIR	Raging	FCD Const	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$500,000	This bridge has a history of scour damage. One of the arch foundations is exposed.
78 WLFL4 RAGING SCOUR REPAIR 2017	Raging	Agreement	\$25,062	\$80,000	\$54,938	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$80,000	Repair scour mitigation measures to protect the footing. It serves only one house but is a designated King County Landmark.
79 Snoqualmie-South Fork Skykomish Subtotal		Agreement	\$60,215,899	\$96,236,198	Ŧ - ,	\$9,695,656	\$9,139,603	\$11,456,561	\$15,378,783	\$6,137,727	\$10,411,002	\$62,219,332	\$135,700,000	\$85,900,000	\$380,055,530	a designated rang Godiny Editamana.
81																
																To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options; study road-
82 WLFL5 ALLEN LK OUTLET IMPRVMNT	Sammamish	Agreement	\$0	\$0	\$0	\$0	\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$2,800,000			\$2,800,000	raining options; prepare Concept Development Report, analyze and select best options.
																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
83   WLFL5 SAMMAMISH R BANK REPAIRS	Commomish	FCD Const	\$304,373	<b>\$4.450.440</b>	<b>CO40 040</b>	<b>የ</b> ጋ 650	\$0	<b>\$</b> 0	\$0	\$0	<del>የ</del> ሰ	\$2,652			\$1,155,065	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.
83 WLFLS SAIVIIVIAIVIISH R BANK REPAIRS	Sammamish	FCD Const	\$304,373	\$1,152,413	\$848,040	\$2,652	\$0	\$0	20	\$0	\$0	\$2,052			\$1,155,065	Willowmoor Floodplain Restoration Project seeks to reduce the frequency and
																duration of high lake levels in Lake Sammamish while maintaining downstream Sammamish River flood control performance and enhancing habitat. The project will
																reconfigure the Sammamish transition zone to ensure ongoing flow conveyance,
																downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs. In June 2016 the
																Executive Committee approved a motion (2016-04) authorizing 30% design of the split- channel alternative including various design elements such as variable depth pools,
						•	•				•				•	cold water supplementation, and other elements itemized in the motion. Project costs will be updated when the 30% design is complete in December 2018.
	Sammamish	FCD Const	\$1,454,905	\$2,536,268	. , ,	\$1,684,709	\$2,011,665	\$0	\$0	\$0	\$0	\$3,696,374			\$6,232,642	Feasibility analysis to identify potential solutions to bank erosion and backwatering
85 WLFL6 ISSAQUAH TRIB FEAS	Lk Wash Tribs	Agreement	\$0	\$150,000	\$150,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000			\$350,000	problems at bridge.  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
86 WLFL6 LOWER COAL CRK PH I	Lk Wash Tribs	Agreement	\$1,980,959	\$9,553,751	\$7,572,792	\$907,841	\$2,385,377	\$114,800	\$90,500	\$63,800	\$1,472,881	\$5,035,199			\$14,588,950	
		505.0	00	<b>#</b> 00.000	<b>#</b> 00 000	<b>#</b> 000 000	40	40	00	Φ0	Φ0	Фоло опо			Фооо ооо	evaluated to limit sediment loading from two May Creek tributaries. Both projects
87 WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	LK VVash Tribs	FCD Const	\$0	\$80,000	\$80,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000			\$380,000	would require land acquisition, whether easement or property purchase.  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, Getchman, and Rutledge-Johnson Lower Jones Rd levee
88 WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acqu/Elev	\$2,573,767	\$4,330,532	\$1,756,765	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$1,200,000			\$5,530.532	segments. Acquisition funding related to these projects is now included in the individual capital projects.
				, , , , ,	. ,,-	+	+ -	7-	7.	+ -	. ,,	. ,,			. , ,	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. Plan was
89 WLFL7 CEDAR LEVEE SETBACK FEAS (Ceda	Cedar	FCD Const	\$1,853,797	\$1,987,587	\$133,790	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,987,587	completed in 2018 with expected close out 2018 or 2019.
			ψ1,000,797	ψ1,307,307				·	·	·		7.	<b>#</b> 00.000.000			Elevate or acquire highest risk and repetitive loss properties from willing sellers.
	Cedar	FCD Acqu/Elev	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000,000			Elevate or purchase approximately 2 homes each year.  Implement projects identified in the Capital Investment Strategy, approved as policy
91 WLFL7 CEDAR CIS LONG TERM	Cedar	FCD Acqu/Elev	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$35,400,000	\$35,400,000	direction by the Executive Committee.

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No. Title	Pagin	Type of project	2017 Inception to Date	2018 Inception to	2018 Available	2019	2020	2021	2022	2023	2024	6-Year CIP	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
No. Title  92 WLFL7 CEDAR RES FLOOD MITIGATION	Basin	Type of project  FCD Acqu/Elev	Expenditure \$0	Date Budget \$0	Budget \$0	Requested \$0	Projected \$0	Projected \$0	Projected \$0	Projected \$0	Projected \$800,000	Total \$800,000	Year 7-10	10+ Year		Comments  Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
93 WLFL7 CEDAR R REP LOSS MITGATN	Cedar	FCD Acqu/Elev	\$3,182,200	\$3,788,422	\$606,222	(\$606,222)	\$0	\$0	\$0	\$0	\$0	(\$606,222)			\$3,182,200	Acquire frequently-flooded homes. Placeholder funding until District adopts acquisition
94 WLFL7 CRT SITE A BANK	Cedar	FCD Const	0.2	\$0	\$0	\$890,000	\$0	\$0	\$0	\$0	\$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.
34 WEI ET CIVI ONE A BANK	Cedai	1 OD COllat	ΨΟ	ΨΟ	ΨΟ	ψοθο,οσο	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ψ030,000			Ψ090,000	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
95 WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Agreement	\$9,638,127	\$11,102,885	\$1,464,758	\$962,613	\$104,880	\$445,679	\$111,267	\$114,605	\$0	\$1,739,044			\$12,841,929	action for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016.
96 WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	Improve Cedar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
97 WLFL7 CITY OF RENTON LEVEE CERTIFICA	A Cedar	Agreement		\$750,000	\$750,000	\$3,000,000	\$1,250,000	\$0	\$0	\$0	\$0	\$4,250,000			\$5,000,000	Placeholder for Renton levee certification projects. Renton will begin engineering in 2018, construction start in 2019. Budget needs may change in future pending engineering and FEMA acceptance of approach.
or Weller dirit di Rentront El Vel de Rinino,	T O Guar	/ igroomon			,,	φο,σσο,σσο	Ψ1,200,000	Ψ0	Ψ0	*-	Ψ0	ψ1,200,000			ψο,οοο,οοο	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
98 WLFL7 ELLIOTT BR LEVEE SETBACK	Cedar	FCD Const	\$2,168,073	\$2,168,073	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$2,168,073	no longer scheduled for the near-term 6-year timeframe.  Washington State Floodplains by Design grant from the Department of Ecology. The
																project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds design elements of the Herzman project
99 WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqu/Elev	\$3,001,014	\$6,511,784	\$3,510,770	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$6,511,784	and Riverbend.  Capital Investment Strategy: Setback levee; excavate side-channel to reduce
100 WLFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	\$0	\$944,872	\$944,872	\$321,604	\$3,969,652	\$0	\$0	\$0	\$0	\$4,291,256			\$5,236,128	pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
																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
101 WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	FCD Const	\$0	\$995,326	\$995,326	\$489,405	\$626,956	\$3,659,210	\$452,157	\$1,532,360	\$25,147	\$6,785,235			\$7,780,561	channel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023.  Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of
																Renton to 1) quantity economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 30
102 WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	FCD Const	\$0	\$200,000	\$200,000	\$200,000	\$100,000	\$0	\$0	\$0	\$0	\$300,000			\$500,000	conduct cost-benefit analysis.  Capital Investment Strategy: Raise in place or setback Jones Road; excavate and
																stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; acquire 8 at risk properties Construction delayed to 2024
103 WLFL7 LOWER JONES ROAD NEIGHBORH	Cedar	FCD Const	\$0	\$2,998,466	\$2,998,466	\$0	\$830,633	\$215,819	\$701,793	\$242,142	\$4,676,985	\$6,667,372			\$9,665,838	to accommodate Jan Rd construction in 2021 or 2022.
																Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee.
104 WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	\$56,732	\$440,000	\$383,268	\$23,151	\$0	\$0	\$0	\$0	\$0	\$23,151			\$463,151	Pending results of landslide hazard analysis, FCD will consider options for a project.  Contribution towards the preliminary design of the May Valley and Issaquah Hobart
105 WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$100,000	Intersection improvements.  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
106 WLFL7 RIVERBEND MHP ACQ	Cedar	Habitat Cost Share	\$4,044,614	\$5,357,042	\$1,312,428	(\$126,000)	\$0	\$0	\$0	\$0	\$0	(\$126,000)			\$5,231,042	risk in this reach. Disappropriate remainder after FCD portion of scope is complete.
																To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert replacement and road-raising
107 WLFL7 MADSEN CR CULVERT 2017	Cedar	Agreement	\$124,605	\$400,000	\$275,395	\$700,000	\$1,430,000	\$0	\$0	\$0	\$0	\$2,130,000			\$2,530,000	option; and analyze upstream and downstream retention/detention impacts.  Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction
		F0D 0	047.044	<b>#</b> 004 000	0004.500	<b>4005</b> 000	<b>.</b>	40	40	•	40	4005.000			Фо 40,000	opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates. Funding added in 2019 pending
108 WLFL7 SR 169 FEASIBILITY STUDY  109 Cedar-Sammamish Subtotal	Cedar	FCD Const	\$17,211 \$30,400,376	\$321,800 \$55,869,221	+ ,	\$325,000 \$9,274,753	\$0 \$13,109,163	\$5,835,508	\$2,355,717	\$1,952,907	\$8,275,013	\$325,000 \$40,803,061	\$22,000,000	\$35,400,000		FCD decision to move forward with preliminary design.
111																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
112 WLFL8 BRISCOE LEVEE SETBACK	Green	Agreement	\$20,478,565	\$23,330,271	\$2,851,706	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$23,330,271	Setback project. The Briscoe project will be closed out once the District's ILA with Kent expires in 2018.
																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
113 WLFL8 BRPS BLACK R PUMP STATION	Green	FCD Const	\$5,157,701	\$5,162,299	\$4,599	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,162,299	discrete project elements.
																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.
114 WLFL8 BRPS CONTROL BLDG RPLCMT	Green	FCD Const	\$0	\$530,368		\$278,530	\$1,276,092	\$7,577,624	\$25,887	\$0	\$0	\$9,158,133			\$9,688,501	This project will design and build the fourth phase of renovations to the Black River
115 WLFL8 BRPS FISH PASS IMPRVMNTS	Green	FCD Const	<u> </u>	\$0	\$0	\$0	\$10,000	\$831,751	\$2,241,456	\$6,316,655	\$3,546,752	\$12,946,614			\$12,946,614	pump station, revising and replacing the obsolete fish passage systems.

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			2047 Incention	2040												
No. Title	Basin	Type of project	2017 Inception to Date Expenditure	2018 Inception to Date Budget	2018 Available Budget	2019 Requested	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
NO. Title	Dasin	Type of project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	real 7-10	10+ Year	Total	This project will design and build the first phase of renovations to the Black River
116 WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	\$44,098	\$474,079	\$429,981	\$1,970,371	\$0	\$0	\$0	\$0	\$0	\$1,970,371			\$2,444,450	pump station, replacing the three smaller pump engines which run much more frequently than the other, larger pump engines.
																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
117 WLFL8 BRPS SUPPORT SYS UPGRADES	Green	FCD Const		\$0	\$0	\$0	\$175,261	\$822,168	\$779,584	\$26,663	\$0	\$1,803,676			\$1,803,676	systems, oilers and hoists.  Cost-share flood damage repair from March 2014 high flows with Corps of Engineers.
118 WLFL8 DESIMONE USACE 2015	Green	Agreement	\$884,958	\$887,552	\$2,594	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$887,552	Constructed in 2016.  Cost-share flood damage repair from March 2014 high flows with Corps of Engineers.
119 WLFL8 DYKSTRA USACE 2015	Green	Agreement	\$640,200	\$600,841	(\$39,360)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$600,841	Constructed in 2016.  Conduct a feasibility study to raise the levee providing 100-year flood protection plus 3
120 WLFL8 GALLI-DYKSTRA FEASIBILITY	Green	FCD Const	\$0	\$0	\$0	\$330,000	\$0	\$0	\$0	\$0	\$0	\$330,000			\$330,000	feet of freeboard.  Complete Phase 1 repair per a request from the City of Auburn. Elevate 3500 feet
121 WLFL8 GALLI-DYKSTRA 2020 REPAIR	Green	FCD Const	\$0	\$0	\$0	\$200,000	\$1,000,000	\$0	\$0	\$0	\$0	\$1,200,000			\$1,200,000	levee reach to meet FEMA levee certification requirements.
400 W// 5/ 0 OD55N DD5 00NOT 400		505 A (5)	4000.050	<b>#</b> 5 000 050	<b>#</b> 5 000 000	<b>#</b> 5 000 000	<b>#</b> 5 000 000	<b>#</b> 5 000 000	<b>#</b> 5 000 000	<b>#</b> 5 000 000	<b>#</b> 5 000 000	400,000,000			405.000.050	This project will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to construction
122 WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/Elev	\$368,856	\$5,368,856	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$30,000,000			\$35,368,856	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
123 WLFL8 GREEN R PL84-99 MITIGATN	Green	FCD Const	\$4,055,796	\$5,660,541	\$1,604,745	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,660,541	project scheduled for 2018 construction.  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
124 WLFL8 HSB BREDA SETBACK KENT	Green	Agreement	\$29,811	\$4,277,674	\$4,247,863	\$481,279	\$2,405,032	\$953,513	\$23,435	\$0	\$0	\$3,863,259			\$8,140,933	chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.
																New project to implement interim SWIF adopted by Board of Supervisors. This PL 84- 99 levee segment contains a 'Minimally acceptable' rating by the USACE due to a
																slope deficiency at RM 24.3 (over steepened slopes from 1.3 to 1.7H:1V for 500 feet).  The City of Kent constructed a secondary containment levee in this reach, set back
																from the river's edge, which is currently not part of the federal levee. The only
																remaining structure between the two levees is a Puget Sound Energy facility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values
																for rapid drawdown of 1.08 and 1.55 at about RM 24.3 and RM 24.4, respectively.  River bed scour in this reach between 1986 and 2011 is 2.7 feet at RM 24.24. Funding
																of \$400,000 covers the cost of major modification to the federal levee so that the City
125 WLFL8 HSB MCCOY REALIGNMENT	Green	FCD Const	\$0	\$400,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$400,000	of Kent's secondary containment levee can be incorporated into the federal levee project.
																New project to implement interim SWIF adopted by Board of Supervisors. The Nursing
																Home levee is over-steepened and does not meet current engineering standards. The economic consequence of levee failure or overtopping to the lower Green River valley
																is extensive and could cause tens of millions of dollars in damage. This capital project area contains a 'Minimally Acceptable' deficiency by the US Army Corps of Engineers
																at RM 25. 5 (over steepened slopes from 1. 25 to 1. 7H:1V for 225 feet). The Horseshoe Bend Levee Certification Report calculated a Factor of Safety (FOS) value
																for rapid drawdown of 1. 01 at RM 25. 57 (Section F). This is barely above the
126 WLFL8 HSB NURSING HOME SETBACK	Green	FCD Const	\$0	\$0	\$0	\$0	\$0	\$100,000	\$2,000,000	\$500,000	\$0	\$2,600,000			\$2,600,000	minimum FOS (1. 0) from the US Army Corps of Engineers manual.  Coordination and planning activities to implement recommendations of interim SWIF.
127 WLFL8 INTERIM SWIF IMPLEMENTATION	Croon	FCD Const	\$2,650	\$70,000	\$67,350	\$0	\$0	\$0	\$0	<b>¢</b> ດ	<b>\$</b> 0	<b>#</b> 0			\$70,000	Maintenance work associated with the interim SWIF is included in the operating
128 WLFL8 LOWER RUSSELL ACQ KENT	Green Green	Agreement	\$0	\$1,023,550	\$1,023,550	\$0	\$0	\$0	\$0	\$0 \$0		\$0			\$1,023,550	Acquisitions by the City of Kent for the Lower Russell levee setback project.
129 WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	FCD Const	\$129,701	\$1,743,249	\$1,613,548	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,743,249	Lower Green River Corridor Planning and Environmental Impact Statement.
																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
130 WLFL8 LWR RUSSELL LEVEE SETBACK	Green	FCD Const	\$10,792,961	\$20,555,938	\$9,762,977	\$14,106,596	\$18,141,389	\$83,375	\$0	\$0	\$0	\$32,331,360			\$52,887,298	
																Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land
131 WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Agreement	\$108,711	\$8,500,000	\$8,391,289	\$10,900,000	\$0	\$0	\$0	\$0	\$0	\$10,900,000			\$19.400.000	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.
		J	. ,		. , ,	, ,	·	·		·	·	. , ,			, ,	This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. Alternative selection is pending; alternative 1 is assumed as a
132 WLFL8 OLD JEFFS FARM REVETMENT	Green	FCD Const	\$171,983	\$2,026,802	\$1,854,819	\$0	\$1,973,198	\$0	\$0	\$0	\$0	\$1,973,198			\$4,000,000	placeholder.
																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.
133 WLFL8 GREEN SCOUR REPAIR 2017	Green	Agreement	\$47,524	\$150,000	\$102,476	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$150,000	
134 WLFL8 GREEN R IMPROVEMENT 2024	Green	Agreement	\$47,524	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	Improve SE Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
		<u> </u>	Ţ 11 <b>3</b>	Ψ0	***	<del>***</del>	<del>43</del>	<b>*</b>	**	Ψ3	÷ : 55,555	+ . 5 5,5 5 5			¥1.55,550	Contribute the cost of a repair (\$720,000) to a \$7 million levee setback project. By
																relocating the levee, flood risks as well as future repair costs for the Flood Control District are reduced. In response to community concerns, the project also includes
135 WLFL8 PORTER LEVEE	Green	Habitat Cost Share	\$300,000	\$720,000		\$0	\$0	\$0	\$0	\$0	\$0				\$720,000	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.
136 WLFL8 REDDINGTON REACH SETBACK	Green	FCD Const	\$16,570,959	\$16,571,227		\$0	\$0	\$0	\$0	\$0						Project expenditures will continue into 2017; closeout anticipated in 2018.

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No. Title	Basin	Type of project	2017 Inception to Date Expenditure	2018 Inception to Date Budget	2018 Available Budget	2019 Requested	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
ivo. Title	Dasiii	Type of project	Experialtare	Date Budget	Duaget	Nequesteu	Flojected	FTOJECIEU	FTOJECIEU	FTOJECIEU	riojecteu	Total	1 eai 7-10	10+ Teal	Total	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
137 WLFL8 RUSSELL RD UPPER KENT	Green	Agreement	\$6,061,985	\$6,082,173	\$20,188	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$6,082,173	structural stability to provide adequate safety.  The project will increase the height of a flood wall to provide approximately 30" of additional
138 WLFL8 S 180TH ST BRIDGE FLOODWALL EX	XGreen	Agreement	\$0	\$65,378	\$65,378	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$65,378	flood protection.
																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
139 WLFL8 SIGNATURE POINTE REVETMENT	Green	FCD Const	\$0	\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$300,000	alternatives analysis to select an alternative to achieve increased flood protection, embankment and toe protection in a manner that can be certified and accredited.
					,	·				·	·					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
140 WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$250,000	adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road.
																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
141 WLFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$300,000	\$0	\$1,800,000			\$1,800,000	phase. US Army Corps led project to replace 3500 ft. of Tukwila 205 levee in-place
																replacement to bring up to 500-year level of protection per the adopted interim SWIF.  The USACE will share remaining 2/3 of the cost; this allocation is the local share of
142 WLFL8 TUK-205 USACE GACO-SEGALE	Green	FCD Const	\$382,418	\$6,860,633	\$6,478,215	\$8,871,785	\$0	\$0	\$0	\$0	\$0	\$8,871,785			\$15,732,418	1/3 of total cost. Requires cooperation agreement.
																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.
143 WLFLS SOUTH PARK PUMPSTATION	Seattle	Agreement	\$1,786,262	\$1,786,262	\$0	\$0	\$4,718,738	\$0	\$0	\$0	\$0	\$4,718,738			\$6,505,000	Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
144 WLFLS PUGET WAY CULVERT	Seattle	Agreement			\$0	\$1,800,000	\$0	\$0	\$0	\$0	\$0	\$1,800,000			\$1,800,000	This project will replace an aging and undersized creek culvert under Puget Way SW in Seattle.
																The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. The conveyance
145 WLFLS S PARK DRAINAGE IMPROVEMENTS	Seattle	Agreement	\$219,074	\$1,000,000	\$780,926	\$0	\$9,075,000	\$7,030,000	\$0	\$0	\$0	\$16,105,000			\$17,105,000	improvements will work in conjunction with the Pump Station.  Erosion and slumping of Tukwila Trail revetment caused by the recent Green River
146 WLFL8 TUKWILA RVTMT 2019 REPAIR	Green	FCD Const	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000		•		flood resulted in approximately 200 feet of damage to the revetment.
147 Green-Duwamish Subtotal 148			\$68,281,737	\$114,397,693	\$46,163,480	\$44,438,561	\$43,774,710	\$22,398,431	\$11,570,362	\$12,143,318	\$8,646,752	\$142,972,134	\$0	\$0	\$257,369,827	
149 150 WLFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev	0.2	0.2	\$0	\$100.000	\$0	\$0	\$0	\$0	\$0	\$100,000			\$100,000	Acquire portion of Anderson park from City of Enumclaw.
130 WEI ES ANDERGONT ARRAGGOTTON	VVIIILE	1 OD Acquireles	ΨΟ	ΨΟ	ΨΟ	ψ100,000	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	\$100,000			\$100,000	This project will reduce flood risks to residences and businesses in the Cities of
				<b>0.17</b> 0.000	4.50.00											Pacific and Algona by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that
151 WLFL9 BUTTE AVE FLOOD MITIGATION	White	Agreement	\$0	\$470,000	\$470,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$470,000	Reduces flood elevations that impact residential neighborhoods in the City of Pacific
151 WLFL9 COUNTYLINE TO A STREET	White	FCD Const	\$23,380,886	\$24,004,419	\$623,533	\$0	\$65,776	\$0	\$0	\$0	\$0	\$65,776			\$24,070,195	(200 homes, with \$52 million of assessed and \$13 million content value), improves sediment storage and enhances habitat.
152 WLFL9 RIGHT BANK LEVEE SETBACK	White	FCD Const	\$11,009,469	\$13,230,557	\$2,221,088	\$1,612,600	\$655,636	\$8,079,077	\$6,419,902	\$69,556	\$0	\$16,836,771			\$30.067.328	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.
153 WLFL9 SLIPPERY CREEK ACQ	White	FCD Acqu/Elev	\$0	\$100,000	. , ,	\$80,000	\$0	\$0	\$0	\$0	\$0	. , ,			+ )	Acquire vacant parcel on Slippery Creek along Chinook Pass Hwy 410.  This project will analyze culvert replacement and road-raising options and implement
154 WLFL9 STREAM #10.0048 US CULVERT	White	Agreement	\$0	\$90,000	\$90,000	\$100,000	\$400,000	\$100,000	\$0	\$0	\$0	\$600,000			\$690,000	the preferred option.
155 WLFL9 STREAM #10.0048 DS CULVERT	White	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$1,500,000	\$0	\$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 loosing approaches during flooding.
																Loss of facing rock along 130' of the lower half of the embankment. Some of the gravel fill under the rock has eroded as well, leaving a near-vertical face supporting the rock
156 WLFL9 STUCK R DR 2019 REPAIR	White	FCD Acqu/Elev	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000			\$500,000	remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
157 White Subtotal	TVIII.C	1 02 / toqu/ 210 t	\$34,390,355	\$37,894,976	\$3,404,621	\$2,392,600	\$1,121,412	\$8,179,077	\$6,569,902	\$1,569,556		\$19,832,547	\$0	\$0		pretestion at the test
158 159																
160 WLFLX CORRIDOR PLN DESIGN/CONST PL  161 Countywide Corridor Plan Imp Subtotal	A Countywide	FCD Const	\$0 \$0	\$142,610 \$142,610		(\$142,610) (\$142,610)	\$0 \$0	\$0 \$0	\$0 \$0			\$27,057,390 \$27,057,390		\$0	\$27,200,000 \$27,200,000	Placeholder for corridor plan implementation project(s)
162			ΨΟ	ψ1π2,010	ψ1-72,010	(ψ172,010)	ΨΟ	ΨΟ	Ψ	ΨΟ	Ψ21,200,000	Ψ21,001,000	Ψ	ΨΟ	Ψ21,200,000	
163		_														Competitive grant program for flood reduction projects. Increases as a proportion of
164 WLFLG FLOOD REDUCTION GRANTS	Countywide	Grant	\$7,208,617	\$14,685,996		\$3,166,261	\$3,281,568	\$3,359,037	\$3,435,258	\$3,511,156	\$3,588,460	\$20,341,740			\$35,027,736	total FCD tax revenue.  Cooperative Watershed Management Grant Program; priorities recommended by
165 WLFLG WRIA GRANTS	Countywide	Grant	\$15,445,614	\$27,619,780		\$4,684,168	\$4,853,735	\$5,029,440	\$5,211,506	\$5,400,162	\$5,595,648				\$58,394,439	watershed groups. Increase based on assumed inflation rate.  Evaluation of capital projects to determine effectiveness and identify project design
166 WLFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	\$1,892,356	\$3,295,253	\$1,402,897	(\$431,365)	\$594,987	\$398,884	\$588,509	\$636,581	\$519,813	\$2,307,409			\$5,602,662	improvements.
167 WLFLO SUBREGNL OPPRTNTY FUND	Countywide	Grant	\$31,603,504	\$49,421,941	\$17,818,436	\$5,889,245	\$6,103,717	\$6,247,808	\$6,389,580	\$6,530,751	\$6,674,535	\$37,835,636			\$87,257,577	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.

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			2017 Inception to Date	•	2018 Available	2019	2020	2021	2022	2023	2024	6-Year CIP	CIS	CIS	Project Life	
No. Title	Basin	Type of project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	Year 7-10	10+ Year	Total	Comments
168 WLFLX CONST MATERIALS STOCKPILE C	Countywide	FCD Const	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000			\$500,000	Central charges related to the FCD's capital fund.
169 WLFLX CENTRAL CHARGES C	Countywide	FCD Const	\$704,514	\$911,493	\$206,979	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000			\$1,511,493	Central charges related to the FCD's capital fund.
170 WLFLX FLOOD EMERGENCY CONTGNCY C	Countywide	FCD Const	\$415,234	\$800,917	\$385,683	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,500,000			\$2,300,917	Contingency for emergency response actions during a flood event.
171 Countywide Subtotal			\$57,269,840	\$96,735,380	\$39,465,540	\$14,158,309	\$15,184,007	\$15,385,169	\$15,974,853	\$16,428,650	\$16,728,456	\$93,859,444	\$0	\$0	\$190,594,824	
172																
173 Grand Total			\$250,558,207	\$401,276,077	\$149,664,780	\$79,817,269	\$82,328,895	\$63,254,746	\$51,849,617	\$38,232,158	\$71,261,223	\$386,743,908	\$157,700,000	\$121,300,000	\$1,067,019,985	

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