

KING COUNTY

1200 King County Courthouse 516 Third Avenue Seattle, WA 98104

Signature Report

FCD Resolution

	Proposed No. FCD2019-13.2 Sponsors
1	A RESOLUTION relating to the operations and
2	finances of the District, adopting the 2020 budget
3	and authorizing improvements.
4	WHEREAS, pursuant to RCW 86.15.140, the King County Flood Control Zone
5	District (District) held a public hearing on the proposed 2020 budget of the District on
6	October 30, 2019, and
7	WHEREAS, the board of supervisors (Board) desires to adopt the District's 2020
8	budget, and
9	WHEREAS, by Ordinance 15728, the King County council adopted the District's
10	initial comprehensive plan of development for flood and stormwater control, which is
11	titled "2006 King County Flood Hazard Management Plan," and by Resolution
12	FCD2011-05.1, the District Board amended the initial plan to include a project in the city
13	of Seattle (collectively, the District Comprehensive Plan), and
14	WHEREAS, pursuant to RCW 86.15.110, the Board must approve by resolution
15	all flood control and storm water control improvements, prior to the extension,
16	enlargement, acquisition or construction of such improvements, and
17	WHEREAS, RCW 85.15.110, further provides that such approval resolution must
18	state whether the improvements are to be extended, enlarged, acquired or constructed;
19	state that the comprehensive plan has been adopted; state that the improvements generally

20	contribute to the objectives of the comprehensive plan; state that the improvements will
21	benefit the county as a whole; state the estimated costs of the improvements; and identify
22	the data supporting the estimated costs, and
23	WHEREAS, the Board desires to approve improvements in the District's 2020
24	budget that are not in the District Comprehensive Plan, or that have been modified by the
25	District's 2020 budget, in accordance with RCW 85.15.110, and
26	WHEREAS, the District reaffirms its commitment to the effective and efficient
27	implementation of capital projects by contracting with King County, as its primary
28	service provider, and other jurisdictions when appropriate;
29	NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF
30	SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:
31	SECTION 1. The Board hereby adopts the 2020 Budget for the District, as set
32	forth in Attachments A ("Work Program"), B ("2020 Annual Budget"), C ("2020 Annual
33	Operating Budget"), D ("2020 Annual Capital Budget"), E ("2020 - 2025 Six-Year CIP")
34	F ("2020 Annual District Oversight Budget"), G ("2020 Subregional Opportunity Fund
35	Allocations") and H ("2020-2025 Six-Year CIP Project Allocations"); provided that King
36	County, or other jurisdictions contracted to implement projects, work shall submit
37	predesign reports for capital projects to the District executive director, and shall seek
38	approval from the executive director of project charters. Furthermore, King County shall
39	provide to the District executive committee thirty percent design project reports for
40	authorization to proceed with sixty percent design.
41	SECTION 2. The Board approves the extension, enlargement, acquisition or
42	construction, as applicable, of the improvements that are included in the District

Comprehensive Plan, that are included in the District Comprehensive Plan but have been 43 modified by Attachments C, D and H to this resolution, or that are not included in the 44 District Comprehensive Plan but are identified in Attachments C, D and H to this 45 resolution (collectively, the "Improvements"). The District Comprehensive Plan includes 46 the streams or water courses upon which the Improvements will be enlarged, extended, 47 acquired or constructed. The Board determines that the Improvements generally 48 contribute to the objectives of the District Comprehensive Plan and will be of benefit to 49 the county as a whole. 50 SECTION 3. The estimated costs of the Improvements are stated in Attachments 51 C, D and H to this Resolution and the supporting data for the estimated costs are on file 52 with the director of the King County water and land resources division. 53 SECTION 4. For Improvements that will be constructed, preliminary engineering 54 studies and plans either have been prepared or will be prepared, and have been filed or 55 will be filed, with the director of the King County water and land resources division. 56 SECTION 5. The Board authorizes the executive committee to modify project 57 budgets and schedules identified in Attachment H. 58 SECTION 6. The Board approves a one-time funding increase of the Flood 59 Reduction Grant Program to fulfill unmet flood risk reduction needs in 2019 partial grant 60 recipients and new additional applicants, if any. 61 SECTION 7. The Board directs King County water and land resources division to 62 develop recommendations for the maintenance and operations of flood risk reduction 63 facilities in the Sammamish River Basin, including sediment management at the mouth of 64 the Sammamish River. 65

66	SECTION 8. The Board directs King County water and land resources division to
67	develop recommendations for the replacement of high-value culverts for flood risk
68	reduction and fish passage by April 30, 2020. This report shall incorporate the
69	information required in King County Council Motion 15328 and shall prioritize high
70	value culverts in incorporated and unincorporated King County.
71	SECTION 9. The Board directs King County water and land resources division to
72	develop recommendations for the maintenance and operations of the weir on Lake
73	Sawyer.
74	SECTION 10. The Board directs King County roads services division to develop
75	recommendations related to flooding concerns in Skyway.
76	SECTION 11. The Board directs King County water and land resources division
77	to convert eight temporary term limited positions to full time positions to District project
78	delivery goals.
79	SECTION 12. The Board directs King County water and land resources division
80	to prioritize the Middle Fork Snoqualmie Sediment Management study and the following
81	capital projects for implementation in the 2020-2025 capital improvement program as a
82	condition for using District funds to pay for five new capital project staff positions:
83	Middle Fork Snoqualmie PL 84-99 study, Tukwila - 205 Gunter Floodwall and other
84	capital projects ready for implementation,
85	SECTION 13. The Board directs King County water and land resources division
86	to provide a monthly report to the District executive director on the status of recruitment
87	and hiring of all vacant and newly authorized positions funded by the District. If any of
88	the five newly created capital project staff positions remain unfilled by August 1, 2020,

the District may consider reallocating the Operating Budget to achieve project delivery 89 goals through alternative contracting methods. 90 SECTION 14. The Board directs King County water and land resources division 91 to provide a monthly report to the District executive director on the status of inspections 92 of all facilities monitored and maintained by King County as a service provider to the 93 District. 94 SECTION 15. The Board directs King County water and land resources division 95 to provide a quarterly report to the District executive director on the status of progress on 96 items in the Work Program as set forth in Attachment A. 97 SECTION 16. The Board directs King County water and land resources division 98 to provide a report on all facilities monitored and maintained by King County as a service 99 provider to the District that have been altered as the result of a capital project by any 100 entity other than the rivers and floodplain management section of King County water and 101 land resources division by March 31, 2020. 102 SECTION 17. The Board directs the District executive director to provide a 103 report on how the District can contribute to the repairs of the Hiram M. Chittenden 104 Ballard Locks operated by the United States Army Corps of Engineers by March 31, 105 2020. 106 SECTION 18. Section 3.6 of the interlocal agreement between the District and 107 King County provides that King County shall notify the District executive director in 108 writing if the county needs to modify or reprioritize capital projects. King County's 109 notifications to the District executive director should include information regarding 110 variations within project budgets of more than twenty percent in the "acquisition", 111

- "design", "construction", "contingency" and "total" expenditure categories, shown on
- 113 Attachment D to this resolution.

114

FCD Resolution was introduced on and passed as amended by the King County Flood Control District on 11/6/2019, by the following vote:

Yes: 8 - Mr. von Reichbauer, Ms. Lambert, Mr. Dunn, Mr. McDermott, Mr. Dembowski, Mr. Upthegrove, Ms. Kohl-Welles and Ms. Balducci

Excused: 1 - Mr. Gossett

KING COUNTY FLOOD CONTROL ZONE
DISTRICT

KING COUNTY, WASHINGTON

Reagan Dunn, Chair

ATTEST:

Melani Pedroza, Clerk of the District

Attachments: A. King County Flood Control District 2019 Work Program dated October 30, 2019, B. 2020 Annual Budget dated November 6, 2019, C. Annual Operating Budget dated November 6, 2019, D. 2020 Annual Capital Budget dated November 6, 2019, E. 2020-2025 Six-Year CIP dated November 6, 2019, F. 2020 Annual District Oversight Budget dated November 6, 2019, G. 2019 Subregional Opportunity Fund Allocations dated November 6, 2019, H. 2020-2025 Six-Year CIP Project Allocations dated November 6, 2019

Attachment A
2020 Budget Work Program
10/30/2019
Attachment A

King County Flood Control District 2019 Work Program

The District work program is comprised of three categories: district oversight and policy development, operations, and capital improvements. The Flood Control District contracts with King County for operations and capital improvements.

- District Oversight and Policy Development
 - Policy direction to guide Advisory Committee and King County as service provider
 - o Financial planning, budgeting, levy rate, bonding (if any)
 - Administration of contracts
 - Asset management
 - Capital improvement priorities
 - Capital improvement implementation evaluation
 - Public awareness priorities
 - Post flood event review and evaluation
 - Federal and state legislative agenda
 - o Legal services, financial management, and Washington State audit
- Operations Work Program
 - o Annual Maintenance
 - o Flood Hazards Plan, Grants, Outreach
 - o Flood Hazard Studies, Maps, Technical Services
 - Flood Preparation, Flood Warning Center, Post Flood Recovery
 - o Program Management, Supervision, Finance, Budget
 - Program Implementation,
 - O District Planning, Outreach, Policy and Technical Services
- Capital Improvement Program (CIP)
 - Capital Improvement Projects Acquisitions and Elevations
 - Programmatic capital funding (Subregional Opportunity Fund, Cooperative Watershed Management Grants, Flood Reduction Grants)

2020 Priorities:

Management & Budget

- Seek federal assistance with US Army Corps issues
- Align capital expenditure schedules
- o Provide budget issue requests to Advisory Committee
- Examining how to increase efficiency and efficacy in flood control capital project planning and delivery including a staffing analysis for District administration, an evaluation of the District's financial plan.

Policy Development

- Develop policy framework for monitoring and maintaining flood protection facilities
- o Develop prioritization framework for Cooperative Watershed Management grant program
- Equity and Social Justice Policy
- Evaluate Home Elevation Program to recommend policy changes to make program more effective and accessible for residents at risk of flooding

Capital Projects

- Establish reporting format for delineating that portion a project's capital budget that meets habitat mitigation requirements and that portion dedicated to habitat restoration benefits
- Reports from WLRD on capital project progress

Real Estate

- Purchase property from willing sellers necessary for the capital project at the Gaco-Mitchell and Gunter portions of the Tukwila 205 levee
- Update facility inventory and real estate records
- Address property title issues

Reports

- Monthly hiring report
- Monthly inventory maintenance/inspection report

Planning and Studies

- Middle Fork Snoqualmie Planning Process
- o Lower Green River Planning Process
- o 2020 Flood Hazard Management Plan Update Process
- Levee Breach Study to evaluate and identify gaps in evacuation and shelter in place plans in areas impacted by a levee breech
- South Fork Skykomish Flood Study
- o Greenwater and Lower Snoqualmie CMZs
- o Evaluation of future flooding scenarios in partnership with the University of Washington
- o Small stream flood studies
- Lake Saywer Weir analysis

Grants

- Monitor Opportunity Fund Project Implementation
- Monitor WRIA/CWM Grant progress and identify leveraging opportunities
- o Develop prioritization framework for WRIA/CWM Grant Program
- Outreach for Flood Reduction Grants Program including funding opportunities for dam inundation mapping

Communications

- Develop new and updated District website
- Review and approve communications plans by Service Provider for planning processes, advisory committees, large wood, flood awareness, and special initiatives
- Conduct media outreach and response on identified priorities

Participate in public meetings on priorities

King County ILA Service Provider Work Plan

Resource Management, Annual Maintenance, and Facility Monitoring

Program Summary: Coordinate facility and property maintenance for the District, which includes 500 flood protection facilities covering 119 linear miles and approximately 800 acres of land managed for flood mitigation purposes. Facility inspections and assessments may lead to proposed repairs in the capital program. Inspections and assessments also help to increase the potential for federal funding assistance for future flood damages.

Annual Maintenance Program:

- Manage work authorizations and coordinate with Department of Transportation (DOT) Road Services Division, Washington Conservation Corps, work crews from the Road Division, Earth Corps, the Department of Juvenile and Adult Detention's Community Work Program, or contractors on completion of maintenance activities:
 - Facility mowing
 - Access gate maintenance
 - Access road maintenance
 - Noxious and non-native plant removal
 - Irrigation and watering
 - Interpretive sign installation and maintenance.
 - Coordinate design of facility and acquisition property re-vegetation projects.
- Coordinate design and implementation of volunteer planting and other land stewardship projects.
- Provide land and resource management including management of lands for appropriate levels of public access.
- Inspect, assess and, if necessary, remove hazardous trees.
- Collect and remove garbage from fee-simple owned property.

Flood Protection Facility Assessment and Monitoring Program

- Develop methods for facility inventory/assessment program.
- Conduct annual, spring and fall, facility assessments.
- Conduct, or assist with, post-flood damage assessments.
- Produce annual report on facility conditions.

Facility Maintenance and Repair Program

- Conduct or assist with facility assessments, consistent with the facility assessment and monitoring program.
- Coordinate with the U.S. Army Corps of Engineers (Corps) on PL 84-99 levee inspections including vegetation management, permitting, and mitigation (as necessary).
- Support or lead staff on the Green River Pump Station Operation and Maintenance Program.

Sediment Management, Large Woody Debris, In-stream Management Program

- Coordinate sediment management program/project actions to reduce flood risks.
- Coordinate large woody debris program/project actions to reduce flood risks.
- Monitor other in-stream hazards and coordinate associated flood risk reduction actions.

Flood Hazard Plan, Grants, Repetitive Loss Mitigation, and Public Outreach

Program Summary: Manage repetitive loss area mitigation coordination, public outreach, flood hazard management planning, and grant preparation. Repetitive loss mitigation is generally achieved by buying or elevating at-risk homes. While buyouts and elevations are funded via the capital program, the planning, prioritization, and the Federal Emergency Management Agency (FEMA) grant submittals are funded via the operating program. Most operating costs for grant development are reimbursable if the FEMA grant is awarded. Public outreach for specific capital projects is funded through the capital program; basin-wide outreach regarding on-going and planned capital projects is considered an operating expense.

Repetitive Loss Area Mitigation Planning

Program

- Track repetitive loss area and repetitive loss property information.
- Provide ongoing program database updates, including tracking property owner communications, interest, and staff recommendations for mitigation options.
- Manage and administer King County's Home Buyout and Elevation Program consistent with District acquisition policies.

Public Outreach and Communications Program

- Provide increased citizen preparedness for floods.
- Provide community outreach support for capital projects.
- Conduct annual basin-wide meetings and outreach regarding the full range of floodplain management activities, whether on-going or planned.
- Support media relation activities.
- Coordinate citizen involvement, and prepare and facilitate public meetings.
- Coordinate updates to webpage and other outreach and educational materials.
- Coordinate outreach to landowners with facility easements regarding maintenance work.
- Coordinate with the District to implement communications protocols.

Community Rating System (CRS) and federal Disaster Mitigation Act Coordination

- Manage the CRS program consistent with the newly adopted federal CRS manual, including coordination with other CRS jurisdictions in King County through the CRS Users Group.
- Complete annual CRS recertification documentation.
- Coordinate/manage updates and process to the planning and regulatory processes for future flood plan updates, King County's Regional Hazard Mitigation Plan, King County Comprehensive Plan, Shoreline Master Plan, and Critical Areas Ordinance. This includes coordination with other jurisdictions.

Grants Program

If resources are available, the following types of grant activities may be included:

- Develop grant applications for FEMA hazard mitigation assistance grants as well as postflood funding. Develop other grant applications to support capital project implementation.
- Administer the biennial Washington State Department of Ecology Flood Control Assistance Account Program (FCAAP) grant process and track successful grants to ensure timely reporting.
- Coordinate and assist with preparation of applications for all state and federal flood hazard mitigation grant processes.

Provide grant application technical assistance to cities and other stakeholders, as needed. Grant prioritization within WLRD shall be based on the following considerations, in order of significance:

- The impacts to public safety.
- The portion of the project directly related to flood reduction.
- The risks of potential damage to infrastructure, including but not limited to businesses, homes, farms, and roads.
- Efficiency of staffing hours.

In addition to grant alerts to the District, WLRD shall transmit a grant overview report to the District by June 30 of each year including information with a description of grants for which WLRD has applied and how the above priorities were taken into consideration.

Flood Hazard Studies, Maps, and Technical Studies

Program Summary: Generate technical information used to characterize, quantify, and delineate flood risks, as well as to develop and implement strategies and actions to reduce those risks. Flood hazard technical information types include hydrologic and hydraulic studies, floodplain and channel migration zone maps, geologic studies, geographic information system (GIS) land use data, dam operations studies, risk assessments and flood hazard management corridor working maps. These technical assessments are used to inform the capital project feasibility, prioritization, and design process funded by the capital program.

- Conduct independently or with consultant contracts, as needed, the following technical study and mapping projects:
 - O Floodplain delineation and mapping
 - O Channel migration zone delineation and mapping
 - Channel monitoring
 - Gravel removal studies and analysis
 - Risk assessments
 - Hydraulic modeling
 - Landslide hazard mapping in areas that may intersect major river floodplains.
- Coordinate with FEMA and other local, state and federal agencies on mapping studies and products.
- Maintain accessible flood study and flood hazard data in a floodplain mapping library.

Flood Preparation, Flood Warning Center and Post Flood Recovery Program

Program Summary: Implement a comprehensive approach to preparing and educating citizens for flood events, coordinating emergency response and regional flood warning center operations during flood events, and ensuring consistency across basins for post-flood recovery actions. Post-flood damage assessments may result in capital projects to repair damaged facilities. Flood and post-flood activities are tracked with a unique project number so that expenditures may be submitted for any federal assistance that becomes available following a federal disaster declaration.

Flood Preparedness

- Coordinate flood hazard education program, communication tools (brochures, web content, customer service bulletins, etc.) to increase the awareness of flood risks and prepare citizens for flood events. This includes base-level participation in the regional Take Winter by Storm campaign.
- Track and disseminate flood hazard technical information to other King County departments (Department of Transportation (DOT), Department of Permitting and Environmental Review (DPER), etc.) and other local, state, and federal agencies.
- Coordinate annual flood awareness month and associated public information program strategy (meetings, websites, other) designed to increase the public's awareness of locally available resources and information.

Regional Flood Warning Center

- Staff the Regional Flood Warning Center monitoring and emergency first responder flood patrols during flood events.
- Coordinate with the following agencies in support of the Regional Flood Warning Center operations:
 - Local governments
 - City of Seattle and Corps on dam operations
 - National Weather Service on weather forecasts and flood predictions
 - King County Office of Emergency Management for coordinated emergency response activities
 - United Sates Geological Survey (USGS) on river gauging contract and gauge upgrades
 - King County DOT on road closures and emergency flood damage and repair response activities.
- Coordinate flood emergency response activities.

Post-Flood Recovery Operations Program

- Complete preliminary damage assessments, and develop and track FEMA public assistance Project Worksheet completion, expenditures and general documentation.
- Coordinate with FEMA and Corps on flood damage repairs and federal funding opportunities; determine eligibility.
- Identify projects and complete grant applications for post-disaster FEMA Hazard Mitigation
 Grant Program opportunities.

Program Management, Supervision; Finance, Budget and General Administration

Program Summary: Provide supervisory, budgeting, contract administration, and administrative services for the District.

Management and Supervision Tasks

- Manage the technical and business operations of the District work program and staff.
- Develop annual operating and capital budgets, work programs and staff allocations.
- Provide supervision, technical assistance and quality control/assurance to staff.
- Carry out responsibilities for hiring, management performance, developing training expectations and recommending effective discipline and termination.
- Ensure programs and projects are completed to carry out the goals and objectives of the River and Floodplain Management Program.
- Work collaboratively with other government and regulatory agencies, departments within King County, and the public to address environmental policies and issues related to floodplain management principles, goals and objectives.

Finance and Budget Operations

- Develop annual capital and operating budget.
- Track and report annual capital and operating budget, revenue and expenditures.
- Process approved reimbursement requests for Subregional Opportunity Fund, Water Resource Inventory Area (WRIA) Cooperative Watershed Management grants, and Flood Reduction grants.
- Provide grant and cost-share reporting, billing and documentation.
- Provide contract and procurement management, support and strategy. (Note: contract administration for specific capital projects is charged to the capital project budget rather than the operating budget.)
- Support capital project managers/engineers with detailed project expenditures, revenues, scheduling, contract management and other finance needs in support of CIP implementation.
- Contract record-keeping consistent with county, state, and federal policies and requirements.

General Administration

- Records maintenance.
- Copying, filing, correspondence, and scheduling.
- Meeting preparation, coordination and support.
- Photo-documentation management.
- General program administrative support.

Compliance

- Provide access to records including but not limited to contracts, invoices, timesheets.
- Respond to annual District audits, King County Council audits, state audits, grant-related audits, and quarterly procurement audits.
- File semi-annual and Annual Report with the Board of Supervisors and Executive Director in printed and electronic form for posting to the District website.
- Notify Executive Director in writing when project scope, budget or schedule change from the adopted capital improvement plan.
- Notify Executive Director of grant requests 30 days prior to grant due date or submittal

- Notify Executive Director of grant award within 10 days of grant approval.
- Work with Executive Committee and Executive Director to support the District's work with Advisory Committee.

King County Flood Control District Program Implementation

Program Summary: Implement flood hazard management programs and coordinate capital improvement projects for the District. Teams of staff are organized by river basin, supported by countywide technical services and countywide planning services, and will be responsible for identifying, implementing, and tracking flood risk reduction program and project actions within a given basin. Staff also coordinate four basin technical committees with partner jurisdictions and maintain relationships with communities and other agencies.

Basin Team and Basin Technical Committee Program

- Staff and coordinate regular Basin Technical Committees.
- Implement work program to guide private property owner and community outreach necessary to complete capital improvement projects.
- Develop ongoing relationships with cities, agencies, and stakeholders within the basin, and ensure consistency across basins.
- Coordinate on acquisition priorities with Acquisition Unit consistent with District acquisition policies.
- Coordinate and support logiam investigation and response/action.
- Respond to, investigate and provide technical assistance for enforcement on complaints and general inquiries. Conduct citizen and/or landowner contact, communication and outreach.
- Conduct annual public meetings about large wood.
- Coordinate with the DOT Road Services Division on construction crew scheduling.
- Provide quarterly project reporting to management.
- Address and seek resolution on basin-specific floodplain management issues.

King County Flood Control District Advisory Committee Coordination

- Provide staff support to the Flood Control District Advisory Committee and the Board of Supervisors, as requested by the Executive Director.
- Track basin technical committee meetings, issues, and cross-basin policy issues.
- Coordinate public process across the District to ensure consistent outreach across basins.
- Report District activities, accomplishments, revenues and expenditures through an annual report.
- Respond to Advisory Committee and Board of Supervisors requests for information regarding rate structure options, and other issues.

Flood Control District Committee Support

 Provide presentations and updates as requested by the Executive Director at meetings of the Executive Committee and Board of Supervisors.

Floodplain Management Planning

Support Board discussions of policy issues, building on materials previously developed for

- the Citizens Committee.
- Support Board engagement in capital project planning efforts, including the development of goals and evaluating alternative flood risk reduction actions. Participate in basin planning and coordination efforts such as the Lower Snoqualmie Flood-Fish-Farm work group.

Agriculture Needs Assistance

- Provide technical and modeling assistance and permitting support for farm pad proposals.
- Manage compensatory storage bank.
- Provide assistance to identify and pursue mitigation opportunities for barn and other farm structure elevations.
- Implement recommendations of the Farm/Flood Task Force as directed by District Executive Committee.
- Coordinate outreach to farmers and the King County Agriculture Commission to gather input on the unique needs of agriculture lands within flood hazard areas.

Capital Improvement Program Implementation

Program Summary: The vast majority of the proposed District work program and budget is dedicated to the implementation of major maintenance and capital projects. This work includes managing and implementing major maintenance, repair and new flood protection facility design, permitting and construction; home buyouts and acquisitions; home and barn elevations; and farm pad cost-share assistance.

The capital projects include those projects to be completed by jurisdictions through the Subregional Opportunity Fund program with funding allocated proportional to assessed value of each jurisdiction, grants recommended through the WRIA cooperative watershed management program, and the flood reduction grant program.

Construction of flood protection infrastructure has paved the way for considerable residential, commercial and industrial economic development in flood hazard areas. The flood protection infrastructure has reduced the frequency of flooding and severity of erosion, and contained flood flows within levees that has allowed for significant economic growth by promoting development of historical floodplains, as exemplified by the industrial and commercial development lining the lower Green River. However, these areas will always face the potential risk that the flood protection facilities could be overwhelmed, resulting in serious flood damage, significant impacts to the regional economy, or personal injury and death. While the costs of flood protection facility construction and maintenance are borne by the public, the value to the economy is a regional benefit.

The CIP will complete high priority and regionally significant flood hazard management capital improvement projects to significantly protect public safety and reduce flood risks to the regional economy, transportation corridors, and public and private infrastructure and property. These capital improvement projects include retrofits and repairs to levees and revetments; levee setbacks to improve slope stability and increase flood conveyance and capacity; and targeted acquisition of repetitive loss properties and other at-risk developments.

The CIP will provide project design, construction and management on the following project implementation elements, consistent with WLR Division's Project Management Manual:

- Scope and Concept
 - o Identify problem, alternatives, recommended solution and project goals.
- Feasibility
 - Identify and conduct studies, analysis, cost estimates, resource needs, landowner issues.
- Acquisition
 - Obtain the necessary property rights to perform the work.
- Design and Permitting
 - Address all elements of the project (e.g. geomorphic, constructability)
 - Complete all federal, state and local permitting requirements (e.g. Corps, Endangered Species Act (ESA))
 - Survey
 - Conduct pre- and post-construction ("as-built") survey
 - o AutoCAD
 - Develop design plan set
 - Hydraulic Modeling
 - Conduct pre- and post-project modeling
 - Complete Letter of Map Revision (LOMR) for constructed projects, when/if warranted
 - Ecological
 - Conduct pre- and post-construction monitoring
 - Complete pre-project feasibility studies/analysis
 - Provide project design support
 - Complete biological assessments/evaluations
 - o Individual
 - Programmatic
 - Complete Section 7 ESA consultation
 - Coordinate or support permitting and permit agency outreach
 - State Environmental Policy Act (SEPA)
 - Complete individual project SEPA review
 - Complete programmatic SEPA review
 - Geotechnical Engineering Support/Geologist/Geotechnical
 - Provide sediment management monitoring, analysis and modeling
 - Conduct pre- and post-construction monitoring
 - Conduct pre-project feasibility studies/analysis
 - Provide project design support
 - Engineering (may include Project Management function as well)
 - Lead design engineer for projects
 - Manage construction of projects
 - Obtain resources for projects; make task assignments
 - Track and report project scope, schedule, and budget

- Develop plan set for construction, or bid documentation support
- Provide overall project quality assurance and quality control oversight
- Project Management
 - Obtain resources for projects; make task assignments
 - Track and report project scope, schedule, and budget
 - Provide overall project quality assurance and quality control oversight
 - Monitoring and Adaptive Management o

Pre-project baseline information o Construction Monitoring

- Conduct pre- and post-construction monitoring
- Provide monitoring reports to DPER and other agencies as required.

Central Costs/Overhead and Reimbursement from Capital

This category includes use-based and FTE-based overhead costs from the Water and Land Resources Division of the Department of Natural Resources and Parks and King County. Examples include use-based charges for the Prosecuting Attorney's Office, risk management, and the financial management system, as well as FTE-based charges for building rent and utilities. When staff loan out from the operating fund to the capital fund, the capital fund reimburses the operating fund for FTE-related overhead charges.

2020 Annual Budget

Attachment B

Program	2018 Actuals	2019 Approved	2019 Revised	2020 Requested
Flood District Administration	774,817	886,638	886,638	913,238
Maintenance and Operation	8,909,077	12,839,055	13,370,743	13,464,210
Construction and Improvements	44,595,640	79,817,269	151,567,324	87,904,383
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	54,279,534	93,542,962	165,824,705	102,281,831
Projected Capital Reserves - Cash Fund Balance ¹	81,912,806	56,841,663	89,876,187	75,637,085
Projected Capital Reserves - Budgetary Fund Balance ²	(24,627,592)	(53,649,615)	(19,491,612)	(56,987,951)

¹ The cash fund balance assumes an expenditure rate of 28% of the capital budget in 2019, informed by prior year actuals.

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

2020 Annual Operating Budget

Attachment C

The Committee of the Co	2018	2019	2019	2020
	Actuals	Approved	Revised	Requested
Annual Maintenance	\$1,926,807	3,327,451	3,327,451	\$3,305,056
Flood Hazards Plan, Grants, Outreach	\$781,155	675,380	1,080,380	\$675,380
Flood Hazard Studies, Maps, Technical Services	\$882,230	2,598,916	2,686,497	\$3,383,416
Flood Preparation, Flood Warning Center	\$336,560	1,127,992	1,167,099	\$991,042
Program Management, Supervision, Finance, Budget	\$1,242,993	1,727,017	1,727,017	\$1,727,017
Program Implementation	\$822,928	246,986	246,986	\$246,986
Overhead / Central Costs	\$2,916,405	3,135,313	3,135,313	\$3,135,313
Total	\$8,909,077	\$12,839,055	\$13,370,743	\$13,464,210

2020 Annual Capital Budget

Attachment D

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$414,037	\$937,450	\$6,569,994	\$811,531	\$8,733,012
Cedar River Basin	\$673,453	\$2,386,440	\$4,448,137	\$0	\$7,508,030
Green River Basin	\$1,215,689	\$8,821,647	\$37,953,674	\$5,289,501	\$53,280,510
White River Basin	\$29,000	\$829,747	\$312,462	\$0	\$1,171,209
Effectiveness Monitoring	\$0	\$330,232	\$0	\$0	\$330,232
Countywide Corridor Plan Implementation	\$0	· \$0	\$0	\$0	\$0
Countywide Miscellaneous	\$0	\$0	\$0	\$100,000	\$100,000
Opportunity Fund	\$0	\$0	\$6,091,017	\$0	\$6,091,017
Grant Fund	\$0	\$0	\$5,880,201	\$0	\$5,880,201
WRIA Grant Funding	\$0	\$0	\$4,810,172	\$0	\$4,810,172
Total	\$2,332,179	\$13,305,516	\$66,065,657	\$6,201,032	\$87,904,383

2020 - 2025 Six-Year CIP

Attachment E

	2018	2019	2019	2020			Trible.			2020 - 2025
Name	Actuals	Approved	Revised	Requested	2021	2022	2023	2024	2025	Total
Snoqualmie River Basin	\$15,985,846	\$9,695,656	20,021,652	8,733,012	10,963,585	18,763,277	13,555,407	27,126,341	27,324,575	106,466,196
Cedar River Basin	\$8,609,669	\$9,274,753	22,015,617	7,508,030	15,892,435	4,463,445	4,940,367	3,541,720	3,932,358	40,278,355
Green River Basin	\$6,759,173	\$44,438,561	\$64,046,578	53,280,510	85,805,463	76,741,492	10,806,094	8,565,231	5,092,073	240,290,863
White River Basin	\$1,604,341	\$2,392,600	2,635,621	1,171,209	1,259,966	8,672,705	8,508,038	136,895	190,000	19,938,813
Effectiveness Monitoring	\$508,737	(\$431,365)	543,400	330,232	890,956	834,056	892,524	804,751	585,512	4,338,030
Countywide Corridor Plan Im	\$0	(\$142,610)		-	5		3 - 2	-	-	=
Countywide Miscellaneous	\$137,597	\$850,000	1,394,971	100,000	392,592	396,870	401,276	405,815	410.489	2,107,042
Subregional Opportunity Fun	\$3,643,555	\$5,889,245	20,394,282	6,091,017	6,255,428	6,414,885	6,568,817	6.720.084	6,869,230	38.919.461
Flood Reduction Grants	\$2,082,721	\$3,166,261	8,859,103	5,880,201	3,363,133	3,448,863	3,531,622	3,612,948	3,693,134	23,529,901
WRIA Grants	\$5,263,999	\$4,684,168	11,656,100	4,810,172	4,939,566	5,072,440	5,208,889	5,349,008	5.492.896	30,872,971
Total	\$44,595,640	79,817,269	151,567,324	87,904,383	129,763,124	124,808,033	54,413,034	56,262,793	53,590,266	506,741,633

2020 Annual District Oversight Budget

Attachment F

	2019 Adopted	2019 Revised	2020 Proposed
Management & Support	\$290,310	\$290,310	\$299,020
Rent and Equipment	\$12,299	\$12,299	\$12,668
Legal Services	\$100,850	\$100,850	\$103,875
Accounting	\$103,669	\$103,669	\$106,779
State Auditor	\$20,762	\$20,762	\$21,385
Other Professional Services	\$250,745	\$250,745	\$258,268
Expenses	\$18,449	\$18,449	\$19,002
Insurance	\$89,554	\$89,554	\$92,241
Total	\$886,638	\$886,638	\$913,238

2019 Subregional Opportunity Fund Allocations Attachment G 11/6/2019

Jurisdiction	Opportunity Fund Allocation	Project Name	Project Description
Algona	\$10,000	DEFERRING	
uburn		DEFERRING	
eaux Arts		2020 Operation & Maintenance	Annual clean and camera of existing stormwater system
		Meydenbauer Basin/NE 8th St. & 100th Ave NE	Author steam and carried of oxioning community system
Bellevue	\$609,377	Conveyance Improvement	Amendment adding budget to project that will reduce the flooding frequency at this intersection.
lack Diamond	\$10,000	SR 169 & North Commercial Stormwater Treatment Facility	Design, permit and construct a vault to treat stormwater along SR 169.
othell		DEFERRING	
Burien		DEFERRING	
Carnation	\$10,000	DEFERRING	
Clyde Hill	\$28,225	Clyde Hill 2020 Storm Sewer Improvement Program	Construct a flow splitter and add storm diversion route to address steep slope issue at 87th Ave. At 94th Ave, line aging stormwater pipes.
Covington	\$27,085	DEFERRING	
Des Moines	\$43,468	DEFERRING	
Duvall		DEFERRING	
numclaw		Battersby Avenue Culvert Replacement	Amendment adding budget to project that will replace culverts to reduce flooding frequency of road and downtown area.
ederal Way		DEFERRING	
lunts Point		2020 Operation & Maintenance	Remove sediment and debris; early detection of potential storm system problems.
ssaquah		DEFERRING	
Cenmore		DEFERRING	
Cent		Lake Fenwick Aerator Upgrade	Amendment to add budget to project that will improve water quality of lake.
		Natural Drainage Flood Program	Amendment adding budget that will be used to implement stormwater control improvements that address flooding problems.
(ing County		Spinney Homestead Regional Facility	Design a regional facility in the Forbes Creek Basin
(irkland			
ake Forest Park	\$30,834	L60 Culvert Replacement	Amendment to add budget to replace a structurally deficient and partial fish barrier culvert on Lyon Creek at NE 178th St.
laple Valley	\$39,340	Jenkins Creek Witte Road Culvert Replacement	Replace existing undersized culvert under Witte Road with concrete box culvert.
Medina	\$42,664	Medina Park Stormwater Pond Improvements	Amendment adding budget to complete permitting, removing organic sediment, and installing outlet control device in upper pond.
Mercer Island	\$141,177	Lincoln Landing Stormwater & Park Improvements Design	Amendment adding budget to design stormwater, shoreline and park improvements at a street end park.
Vilton	\$10,000	DEFERRING	
	001001	S-038 Storm Conveyance Rehabilitation	
Vewcastle	\$34,624	Program	Repair or replace degrading or failing stormwater infrastructure.
lormandy Park	\$16,273	DEFERRING	
North Bend	\$13,709	DEFERRING	
Pacific		DEFERRING	
Redmond		Willows Road Culverts	Amendment to add budget to replace undersized culvert with larger, fish passable box culvert.
		NE 16th and Jefferson Avenue NE Stormwater	
Renton		Green Connections	Improve conveyance and water quality along NE 16th St. and Jefferson Ave NE - install pipe, catch basins, bioretention facilities.
Sammamish		DEFERRING	
SeaTac	\$56,668	DEFERRING	
Seattle	\$2,614,258	Broadview 12th Ave NW Drainage & Flooding Improvements	Amendment to add budget to design and implement drainage improvements to address the highest priority areas of surface water flooding in the west branch of Mohlendorph basin.
Shoreline	\$114.074	Pump Station 26 Replacement	Amendment to add budget and extend timeframe to replace aging pump station
Skykomish		DEFERRING	
inoqualmie		DEFERRING	
ukwila	\$60.971	1. Riverton Creek Plapgate Removal 2. East Marginal Way S. Stormwater Outfalls	Rehabilitate habitat within Riverton Creek and improve its connection to Duwamish River aconveyance system and improve water quality in Duwamish River
Voodinville	\$37.940	DEFERRING	
arrow Point		2020 NE 42nd St. Stormwater	Upsize stormwater pipe to 24-inches
Jurisdiction Tot		LOTO LIE ASIM OF ORDINAMEN	

\$966,656 \$5,124,361 Deferrals Projects

Capital Investment Strategy Project Grant/External Revenue Awarded Cost Share Contribution to Others Added in 2019

									Proposed New A	dd in 2020						
			2018 Inception	2019	COAC Aveileble	2000	0004	0000	2002	2024	0005	6 Vees OID	CIO	OID	Design II No.	
No. Title	Basin	Type of project	to Date Expenditure	Inception to Date Budget	2019 Available Budgel	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
1 WLFLO SF SKYKMSH REP LOSS MIT	SF Skykomish			\$1,145,404	\$506,736	(\$456 736)	\$456,736	\$0	\$0	\$0	\$115,927	\$115,927			\$1 261 331	Baring, This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during future I flood events.
		FCD Const	\$2,856	\$81,237	\$78,381	(\$78.381)	\$78,381	\$0	\$0	\$0	\$0	\$0				Skykomish, This project would improve infrastructure at the mouth of Maloney Cree and on the SF Skykomish River to reduce the frequency of flooding of homes and 7 property within the Town of Skykomish,
2 WLFLO SKY W RVR DR FLOOD STUDY	SF Skykomish									\$0	\$0	\$0				Skykomish. Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge_Further flooding may compromise or severely damage
3 WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const	\$85,402	\$150,000	\$64,599	\$0	\$0	\$0	\$0	30	20	30			\$150,000	Skykomish. This project will continue to acquire and remove homes along a stretch
4 WLFLO TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqu/Elev	\$1,959,242	\$2,409,874	\$450,632	(\$365,632)	\$0	\$765,632	\$0	\$0	\$0	\$400,000			\$2,809,874	the Skykomish River that are endangered by erostve forces as well as inundation in some places.
5 WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	FGD Const	\$11,115	\$16,040	\$4,925	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$16,040	
6 WLFLO TIMBERLANE 2019 REPAIR	SF Skykomish	FCD Const	\$0	\$600,000	\$600,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$600,000	Skykomish. Revelment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150 Li (needs verification), Failure has occurred previously in this section of revelment. North Bend, Reduce neighborhood isolation from flooding, Develop a set of
7 WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	\$309,028	\$309,028	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$309,028	alternatives for improvements to 428th Avenue SE, SE 92nd Street, and Reinig Road to reduce the frequency of community isolation caused by floodwaters overlooping these roadways.
															(1000000	North Bend, This project will determine a preferred action to reduce long form risks from channel migration in the Cortole River Ranch Neighborhood on the South Fork Snoqualmie River, Being conducted concurrent with South Fork Snoqualmie
8 WLFL1 CIRCLE RVR RANCH RISK RED 9 WLFL1 MF SNO CORRIDOR IMP	Upper Snoq Upper Snoq	FCD Const	\$127,225 \$954	\$540,165 \$954		\$133,524 \$0	\$238,175 \$1,162,249	\$4,052,588 \$1,196,980	\$4,560 \$1,232,889	\$0 \$377,890	\$0 \$0	\$4,428,848 \$3,970,008				Corridor Plan North Bend, Placeholder for corridor plan implementation project(s)
							\$0									North Bend, Middle Fork Snoqualmie Corridor Planning, scheduled for completion i
10 WLFL1 MF SNO CORRIDOR PLAN 10 WLFL1 MF SNO PL84-99	Upper Snoq Upper Snoq	FCD Const	\$1,502,409 \$0	\$1,824,912 \$0	\$322,503 \$0	\$27,585 \$75,000	\$75,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$27,585 \$150,000			\$1,852,497 \$150,000	7 2018. North Bend. Upgrade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards.
11 WLFL1 MF RESIDENTIAL FLD MTGTN	Upper Snoq	FCD Acqu/Elev	\$0	\$0	\$0	\$120,000	\$525,000	\$1,830,000	\$1,830,000	\$1,830,000	\$2,265,000	\$8,400,000			\$8,400,000	North Bend, Replace two existing rusted out 46° corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The new culve will reduce the time it takes to drain the flood waters off of pivate properly by increasing the capacity of the crossing. Currently when the North Fork Snoqualmie River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this flood water once the North Fork has overtopped the adjacent levees.
12 WLFL1 NORMAN CREEK DS CULV	Upper Snoq	Agreement	\$722.582	\$724,000	\$1,418	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$724,000	North Bend, Replace two existing rusted out 48° corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The new culve will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossfun, 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 overlopped the adjacent levees.
13 WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	Agreement	so	\$0	\$0	\$0	\$0	\$0	\$350,000	\$750,000	\$0	\$1,100,000			\$1,100,000	North Bend, Improve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert.
TO THE ETHORNOUT ONCE TO GO EVER OUT	John Street	- I Mariant			-					4104,000						North Bend. The North Fork Bridge was originally built in 1951 and is extremely vulnerable to scur as the channel thalweg migrates. In order to keep the bridge and reliable during a flood, it is important to protect the piers and abuntments from
14 WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Agreement	\$177,742	\$177,742	\$0	\$0	\$0	\$0	\$0	\$0	\$0	.\$0			\$177,742	scour failure. North Bend, Initiate feasibility study to mitigate the risk of scour damage to the North
15 WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$200,000	Fork Bridge by retrofitting the existing structure with deep foundations or alternative risk mitigalion strategies.
16 WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snog	Agreement	\$29,181	\$987,835	\$958, 6 54	90	50	\$0	50	50	n2	sn			\$987,835	Snoqualmie, Repair downstream 200 lineal feet of facility which is missing face rock and toe rock. A significant scour hole has formed around a City of Snoqualmie stormwater outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the City's planned "Riverwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2020,
10 WEET RECORD OFFICE 2010 REPAIR	Opper Strong	Mineettietit	923,101	9301,000	\$350,004	- 00	400			44	•••	30			\$301,000	North Bend. Conduct a feasibility study to determine ways of preventing the
17 WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq	FCD Const	\$0	\$0	\$0	so	\$0	\$265,438	\$318,421	\$385,937	\$457,218	\$1,427,014			\$1,427,014	overtopping of the Reif Rd Levee. Potential solutions include: repair and/or raise levee in place / selback levee / gravel removal / home elevations. North Bend. Cost-share of \$8.4M levee serback project. The overtops at a 20-year
	DOCESTANCE.						tetedo									greater flood, inundating undeveloped property, railway lines and roadways. Project would reconnect 25 acres of floodplain and construct a new levee that meets curren engineering guidelines. City has submitted grant application for the remaining \$4.2
18 WLFL1 BENDIGO UPR SETBACK NORTH BEND	Upper Snoq	Agreement		\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$4,200,000	\$4,200,000			\$4,250,000	Snoqualmie, Elevale low section of Reinig Rd to alleviate flooding that blocks
19 WLFL1 REINIG RD ELEVATION	Upper Snog	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$100,000	\$150,000			\$150,000	roadway. North Bend. Repair three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feel. Construction i
20 WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	FCD Const	\$391,568	\$1,200,000	\$808,432	\$4,057,657	\$25,462	\$0	\$0	\$0	\$0	\$4,083,119			\$5,283,119	anticipated in 2020. North Bend, Address flooding from Ribary Creek at Bendigo Blvd in North Bend as
21 WLFL1 RIBARY CREEK	Upper Snog	FCD Const	\$0	\$36,492	\$36,492	\$150,000	\$450,000	\$2,338,618	\$3 223 883	\$0	\$0	\$6,162,501			\$6,198,993	the Snoqualmie levees prevent drainage to the river during high flows
22 WLFL1 SF CIS MED TERM	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$43,000,000		\$43,000,000	North Bend, Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
23 WLFL1 SF CIS LONG TERM	Lipper Snoq	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	.\$0	\$0	\$0	\$0		\$57,100,000	\$57,100,000	
24 WLFL1 SF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	\$2,573,493	\$2,573,493	\$0	\$0	so	\$0	\$0	\$0	\$0	\$0			\$2,573,493	North Bend, SF Snoqualmie Corridor planning process and development of capital investment strategy.

															1		
No. T	Tří le	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Avallable Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
140.	nio .	Danit	1 1 1 po or propor	LAPATIANTIE	Date Dunger	Booque	rregupsied	1 Oleoasted	1 Diconsied	1 Olounateu	Pulecasieu	1 Diecasieu	Total	TEAL 7-10	10+ Teal	1014	North Bend, Six levee deficiencies have been identified in this leveed segment. The
25 V	NLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$173,977	\$388,000	\$214,023	\$0	\$727,790	\$1,031,736	\$0	\$0	\$0	\$1,759,526			\$2,147,526	project will design and reconstruct the impalred segment of levee in place. North Bend, Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could
26 V	NLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const	\$388,601	\$3,550,000	\$3,161,399	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$3,550,000	threaten 428th Ave embankment or bridge. North Bend, Between 428th St Bridge and Tate Creek, several locations on levee
27 W	VLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	\$1,090	\$51,090	\$50,000	\$100,000	\$360,910	\$0	\$0	\$0	\$0	\$460,910			\$542.000	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 2018 construction.
	YELL OF PINCE WILLER TO ZO TO NELL ANN	opper onlog	1 OD CONST	\$1,030	337,030	\$50,000	\$100,000	\$300,810	φ0	90	30	gu.	3400,310			\$512,000	North Bend, Repair approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop Into bank that is approximately 1-2 feet deep. Si View Levee is a relatively short flood containment levee that protects 50+ homes in the Si
28 V	NLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const	\$136,754	\$396,754	\$260,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$396,754	View Park Neighborhood of North Bend from flooding, Project scheduled for 2018 construction.
														II			North Bend. Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve conveyance and reduce upstream flood impacts, Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie
29 V	NLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snog	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	Corridor Plan. North Bend, Prepare a Concept Development Report (CDR) to analyze and select
30 V	NLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000			\$150,000	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.
																	North Bend, Flood damage repails from January 2015 flood event, Locallons Include Mason-Thorson Ells and Mason-Thorson Extension (Middle Fork Snoqualmie); North Park (North Fork Snoqualmie); and Record Office, Meadowbrook, and
31 V	NLFL1 UPPER SNOQ 2015 FLOOD REPAIR	Upper Snog	FCD Const	\$555,771	\$556,781	\$1,009	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$556,781	Railroad (Snoqualmie mainstem).
32 <u>V</u>	NUFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/Elev	\$11,411,570	\$12,717,550	\$1,305,980	\$1,756,037	\$2,295,755	\$2,364,628	\$2,435,567	\$2,508,634	\$2,583,893	\$13,944,513			\$26,662,063	Snoqualmie. This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the Riverwalk project,
33 V	WLFL1 USACE PL 84-99 SF SNO	Upper Snoa	FCD Const	\$4,769	\$333,377	\$328,608	\$0	\$352,868	\$363,454	\$0	\$0	\$0	\$716.322			\$1,049,699	
34 V	VLFL2 264TH AVE NE AT SR 202 FLD IMPRVMNT	Lower Snog	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$540,000	\$540,000			\$540,000	Redmond. Alleviate flooding on this sole access road by replacing the existing culverts and raising the roadway to elminate over-topping.
35 V	VLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMNT	Lower Snog	Agreement	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$500,000	\$500,000			\$500,000	Improve drainage to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.
35 V	VLFL2 CITY SNOQ HOME ELEVATIONS-	Lower Snoq	Agreement	\$0	\$0	\$0	\$1,118,000	\$0	\$0	\$0	\$0	\$0	\$1,118,000			\$1,118,000	City of Snoqualmie: Elevate several flood-prone homes in the areas around Walnut St and Northern St.
												1					Duvall. Ropair approximately 200 foot of rovolmont. 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 revelment could result in erosion of the road (West Snoqualmie Valley Road NE) which would
36 V	VLFL2 DUTCHMAN RD REPAIR	Lower Snog	FCD Const	\$0	\$48,593	\$48,593	\$0	\$200,000	\$500,000	S0	\$0	\$0	\$700,000			\$748,593	severely limit access to the downstream property owners during or following a flood event.
37 V	WLFL2 L SNO SCOUR REPAIR 2017	Lower Snog	Agreement	\$143,386	\$150,000	\$6,614	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$150,000	Fall City, The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood, Add scour miltigation measures to protect footing, Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
20 14	NI FI A FARM DAD DDOOD MA		500 A	2005 440													Carnation. This project provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to leip them better withsland the impacts of flooding. Specific project actions include farm pads and elevation or flood
	VLFL2 FARM PAD PROGRAM VLFL2 L SNO REP LOSS MITGTION	Lower Snog	FCD Acqu/Elev	\$805,446	\$979,803	\$174,357	\$0	\$115,214	\$118,670	\$122,230	\$125,897	\$129,674	\$611,685				proofing of agricultural structures. Carnation. Funding as possible local match for FEMA grants to elevate or acquire attach structures.
35 1	VELTER ESINOTES EGGS MITGININ	Lower Shoq	FCD Acqu/Elev	\$1,269,231	\$1,695,671	\$426,440	\$0	50	\$0	\$0	\$0	\$0	\$0				risk structures. Fall City, Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualmie, Projects reduce flood and erosion risk to revelments, roads, and landowners. FCD
40 V	VLFL2 L SNO/ALDAIR CORRDOR PLN	Lower Snog	FCD Const	\$6,326,158	\$7,365,814	\$1 039 656	\$0	\$0	\$0	\$0	\$0	50	\$0			\$7,365,814	expenditure leverages habital restoration funding from other sources.
			500 4 151	************								22					Carnation. This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualine 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.
	VLFL2 LWR SNO RESDL FLD MITGTN	Lower Snog	FCD Acqu/Elev	\$2,201,472	\$3,043,609	\$842,137	\$272,863	\$530,450	\$546,363	\$562,754		\$0				\$5,535,677	Snoqualmie: Design and permit a sediment facility to minimize sediment deposition,
	VLFL2 MUD CREEK SEDIMENT FACILITY VLFL2 SE 19TH WAY REVETMENT	Lower Snoq Lower Snoq	Agreement FCD Const	\$1,643,036	\$1,916,294	\$0 \$273,258	\$432,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$432,000			0.072-02-0	flooding, and channel avulsions at this site. Fall City, Rebuild revelment to protect road access to high value agricultural operations and lands. Construction is complete.
200	VLFL2 SE DAVID POWELL RD DOWNSTREAM	Lower Snog	Agreement	\$594,807	\$595,098	\$213,256	\$0	\$0	\$0	\$0	\$0		\$0			\$1,916,294	Fall City. Reduce neighborhood Isolation from flooding. Prevent slope failure of sole
																	Fall City, The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing falling revelment and extend MSE
	VLFL2 L SNO 2019 BANK REPAIR VLFL2 SE FISH HATCHERY RD	Lower Spog	Agreement	\$226,149 \$496,163	\$2,200,000 \$496,163	\$1,973,851 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0				wall to prevent undercutting of the riverbank and roadway. Fall City, Reduce neighborhood isolation from flooding, Prevent slope failure of sole
	VLFL2 FISH HATCHERY RD BR #61B REPAIR	Lower Spog	Agreement	#490,103	\$490,103	\$0		\$620,000	\$0	0.6	30	2000					access roadway that would Isolate 20-30 homes. Duvall, Strengthen the bridge structure to stabilize it after the most recent flood event rebuild the east approach roadway to address the current issue and to protect it against major flood events in the future, and restore the eroded creek bed and distributions of the bridge engines receive.
46 V	VLFL2 SINNEMA QUAALE 2011 REPR	Lower Snog	Agreement FCD Const	\$12,439,513	\$12,508,516	\$69,003	\$80,000 \$0	\$620,000	\$0	\$0	\$0	\$0	\$700,000				riverbank profile to buffer the bridge against scour. Duvali, 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 is complete.
	VLFL2 SNOQUALMIE VALLEY FEAS	Lower Snog	Agreement	90	\$12,500,510	\$0	\$0	\$250,000	\$250,000	\$0	\$0		\$500,000				Duvali, 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.

				2018 Inception	2019	2040 Aveileble	2020	2024	2022	2023	2024	2025	6-Year CIP	CIS	CIS	Project Life	
No	Title	Basin	Type of project	to Date Expenditure	Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	Forecasted	Forecasted	Forecasted	Total	Year 7-10	10+ Year	Project Life Total	Comments
						\$200,000	\$0	*0	\$0	\$0	\$0	\$0	\$0			\$1 107 886	Carnalion. This completed project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank Revelment on the Snoqualmie River, downstream of the City of Carnalion,
48	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoa	FCD Const	\$907,886	\$1,107,886	\$200,000	30	20					300				CarnationPlaceholder costs for long-term facility improvement project to prevent
49	WLFL2 STOSSEL LONG TERM REPAIR	Lower Snog	FCD Const	\$0	\$0	\$0	\$50,000	\$150,000	\$170,000	\$500,000	\$2,500,000	\$0	\$3,370,000			\$3,370,000	erosion undermining 310th Ave NE. Carnation, This project will repair approximately 800 linear feet of the Winkelman
Н																	(formerly RM 13,5) revetment, Erosion along the right bank of the Snoqualmie Riv channel threatens to undermine the Seattle Public Utilities water supply line at this
50	WLFL2 TOLT PIPELINE PROTECTION	Lower Snog	FCD Const	\$10,342,073	\$10,778,068	\$435,995	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$10,778,068	location south of Duvall, Construction is complete, Duvall, These two bridges are subject to having the roadway approach fill wash ou
																	during a flood, Excavale approaches and rebuild approaches to prevent loosing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge
51	WLFL2 DUVALL SLOUGH 2017 IMPRV	Lower Snog	Agreement	\$277,937	\$400,000	\$122,063	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$400,000	No. 1136D. Carnalion, Face rock displaced along approximately 50 feet of levee face, Some c
52	WLFL3 FREW LEVEE 2016 REPAIR	Toll	FCD Const	\$164,558	\$360,360	\$ 195,802	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$360,360	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 inverside trail. Potential impact to highway if facility breaches during a major flood, Construction is complete.
U.E.	WEI COTTICH ECVES 2010 HEI TWI	7.411	1.11.11.11.11.11.11	3.13.10-22			100										Carnation, Repair approximately 20 feet of face and toe rock dislodged from Girl
																	Scout Camp levee revelment below side channel confluence with mainstem. Missin face and toe rock compromises levee integrity, increasing its vulnerability to further
	WELL OLD LOCALITY EVER ON A DEDAIR	T-11	FCD Const	\$160,096	\$311,000	\$150,904	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$311,000	ecour and potential failure. Scheduled for 2018 construction
53	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Toll	PCD Const	\$100,090	\$311,000	\$ (30,904	.00-	90	90	- 50	40	***		N.			Carnation, Facility failure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to residences and
54	WLFL3 HOLBERG 2019 REPAIR	Tolt	FCD Const	\$0	\$25,000	\$25,000	\$25,000	\$450,000	\$0	\$0	\$0	\$0	\$475,000			\$500,000	property. Carnalion, Feasibility study to determine the nature and extent of levee
	WLFL3 HOLBERG FEASIBILITY	Toll	FCD Const	\$62 156	\$263,969	\$201.813	\$84,222	\$0	\$0	\$0	\$0	\$0	\$84 <u>222</u>			\$348.191	improvements necessary to remove four homes in unincorporated King County fro the regulatory Channel Migration Zone as mapped in the March 2017 Draft Tott River Channel Migration study
35	WLFL3 HOLBERG FEASIBILITY	100	100000130	402,100	\$2.00,000	4201,010	401,222					- 11					Carnation, Capital Investment Strategy: Design, based on level of service analysis the highest priority levee setback for flood risk reduction. Phase 2 construction
56	WLFL3 LOWER FREW LEVEE SETBACK	Toll	FCD Const	\$237	\$478,664	\$478,427	\$100,000	\$700,000	\$850,000	\$700,000	\$14,650,000	\$100,000	\$17,100,000			\$17,578,664	estimated in CIS at \$14,5M-\$16,7M
57	WLFL3 LOWER TOLT RIVER ACQUISITION	Toll	FCD Acqu/Elev	\$529.475	\$744,475	\$215,000	(\$190,000)	\$0	\$0	\$0	\$0	\$0	(\$190,000)			\$554,475	Carnation. Acquisition between the Swiftwater development and the river for the future setback of the Upper Frew Levee
									USC								Carnalion, Damage is approximately 60 lineal feet of the facility with missing toe ro and undernined face rock near the Snoqualmie Valley Trail, The damage is at the downstream end of Remilinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remilinger property, Construction
58 1	WLFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	FCD Const	\$139,912	\$311,000	\$171,088	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$311,000	complete. Carnation, Capital Investment Strategy; Acquire 2 at-risk homes from willing sellers
59	WLFL3 RIO VISTA PROPERTY ACQ	Toll	FCD Acqu/Elev	\$203	\$500,000	\$499,797	(\$449,797)	\$0	\$449,797	\$0	\$0	\$0	\$D			\$500,000	acquire remaining 14 homes as funds become available. Carnation. This project will buyout remaining properties and remove all homes and
			500 4 (5)	04.050.500	24 052 052	\$500 BOO	-	\$0	\$0	\$0	\$0	\$0	\$0			\$A 953 353	privately-constructed rubble levee at upstream end of the community access road, utilimately completing project initiated 20 years ago by others. Approximately 20 hornes removed from high hazard areas within and just upstream and downstream San Souci neighborhood.
60	WLFL3 SAN SOUCI NBRHOOD BUYOUT	Toll	FCD Acqu/Elev	\$4,359,533	\$4,953,353	\$593,820	\$0	Φ0	30	20	ر برو.	20	30			04,000,000	Carnation, Capital Investment Strategy: Construct Tolt Road NE road elevation in
61	WLFL3 SAN SOUCI REACH IMPRVMNTS	Tolt	FCD Const.	\$0	\$160,000	\$160,000	\$25,000	\$90,000	\$700,000	\$700,000	\$825,000	\$0	\$2,340,000			\$2,500,000	lone location. Remove illegal revelment and roads in San Souci neighborhood
62	WLFL3 SEDIMENT MGMT FEAS	Toll	FCD Const	\$6,499	\$402,805	\$396,306	\$38,553	\$15,648	\$0	\$0	\$0	\$0	\$54,201			\$457,006	study and develop a plan. Update and include upper watershed sediment productio
																	Carnation, Capital Investment Strategy: Initiate study (with potential future design a construct) to add bridge span(s), raise the highway and relocate King County Parks
63	WLFL3 SR 203 BR IMPRVMNTS FEAS	Tolt	FCD Const	\$1,104	\$395,900	\$394,796	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$395,900	parking area. Carnation, Flood damage repairs from January 2015 flood event, Locations include
64	WLFL3 TOLT 2015 FLOOD REPAIRS	Toll	FCD Const	\$46,909	\$46,909	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$46,909	Frew, Upper Frew, Remlinger, and Girl Scout Camp. Carnation, Implement projects identified in the Capital Investment Strategy, approvi
65 \	WLFL3 TOLT CIS MED TERM	Tolt	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,250,000		\$56,250,000	as policy direction by the Executive Committee, Carnation, Implement projects identified in the Capital Investment Strategy, approve
66	WLFL3 TOLT CIS LONG TERM	Tolt	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$28,800,000	\$28,800,000	as policy direction by the Executive Committee,
07	WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const	\$1,138,802	\$1,153,657	\$14,855	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1.153.657	Carnation. The corridor plan for the lower's miles of the 1oft River will develop a prioritized implementation strategy for near-term and long-term floodplain management actions. Scheduled for adoption in 2017.
01	WEFES TOLL CORREDOR PLAN	Tou	I-GD Collai	\$1,100,002	\$1,130,007	4,17,000	- 40				70						Carnation, Capital Investment Strategy: Conduct a detailed hydraulic analysis to
68	WLFL3 TOLT R LEVEE L.O.S, ANALYSIS	Tolt	FCD Const	\$156,769	\$413,484	\$256,715	\$278,651	\$31,031	\$0	-\$0	\$0	\$0	\$309,682			\$723,166	Carnation. Acquisition funding for high risk properties in levee setback project area.
69	WLFL3 TOLT R MILE 1,1 ACQ	Tolt	FCD Acqu/Elev	\$4,120,326	\$4,306,106	\$185,781	(\$50,781)	\$850,781	\$0	\$0	\$0	\$0	\$800,000			\$5,106,106	Project priorities will be determined by the Board through adoption of the Tolt Corrid
	WLFL3 TOLT R NATURAL AREA ACQ	Talt	FCD Acqu/Elev		\$2,605,067	\$54,753	\$1,350,247	\$0	\$685,000	\$0	\$0	\$0	\$2,035,247			\$4,640,314	Carnation, Capital investment strategy: acquire at-risk homes from willing sellers,
								\$0	60	\$0	\$0	\$0	\$0				Carnation, Reduce neighborhood isolation from flooding, Evaluate feasibility of elevating sections of Tolt River Road,
71	WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tall	FCD Const	\$49,508	\$250,000	\$200,492	\$0	\$0	\$0	.50	30	- au	.90			\$2.00,000	Carnation, Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road elevations as
72	WLFL3 TOLT R RD NE IMPROVEMENTS	Tolt	FCD Const	\$0	\$0	\$0	\$0	\$53,045	\$109 273	\$225,102	\$1,043,347	\$1,432,863	\$2,863,628			\$2,863,628	funds become available. Carnation, Capital Investment Strategy: Initiate the levee setback design in order to
72	NLFL3 UPPER FREW LEVEE SETBACK	Toll	FCD Const	60	sn.	\$0	\$50,000	\$159,090	\$175,099	\$1,200,000	\$1,500,000	\$14,800,000	\$17,884,189			\$17,884,189	apply for grant funding. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge.
	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS		FCD Const.	\$1,753,659	\$1,853,460	\$99,801	\$0	\$133,030	\$0	\$0	\$0	\$0	\$0				Fall City, Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along the Raging River in the Alpine Manor neighborhood.
	WLFL4 RAGING MOUTH TO BR 2017 REPAIR	Raging	FCD Const	\$257,426	\$500,000	\$242.574	\$0	\$0	50	\$0	***	SD	gn.				Fall City, Repair 150 lineal feet of discontinuous damage and missing loe 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.

			2018 Inception	2019												
No. Title	Basin	Type of project	to Date Expenditure	Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025	6-Year CIP Total	CIS	CIS	Project Life Total	
		. , pro es project		Data Daagat	Dudder	Trequesies	Torcognog	1 Oreotatica	Torousieu	rulecasied	Forecasted	Total	Year 7-10	10+ Year	IOIBI	Comments Fall City. This bridge has a history of scour damage. One of the arch foundations is exposed, Repair scour milligation measures to protect the fooling, it serves only one
76 WLFL4 RAGING SCOUR REPAIR 2017 77 Snoqualmie-South Fork Skykomish Subtotal	Raging	Agreement	\$25,062 \$74,399,800	\$80,000 \$94,421,452		\$0 \$8,733,012	\$0 \$10,963,585	\$0 \$18.763.277	\$0 \$13,555,407	\$0 \$27,126,341	\$0 \$27,324,575	\$0 \$106,466,196	\$99,250,000	\$85,900,000	\$80,000 \$385,037,648	nouse bul is a designaled King County Landmark.
78 79										101,1101,111				200,000,000	2000,007,010	
80 WLFL5 ALLEN LK OUTLET IMPRVMNT	Sammamish	Agreement	\$0	so	so	\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$0	\$2.800,000			\$2,800,000	Sammamish. To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options; study road-raining options; prepare Concept Development Report, analyze and select best options.
						7330,555	01,100,000	41,000,000			40	92,560,660			92,000,000	Sammamish: This project will restore access to one river mile of high quality kokanee
80 WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Cemmamish	Agreement	\$0	30	\$0	\$400,000	\$0	\$0	50	\$0	\$0	\$400,000			\$400,000	salmon habital and reduce the risk of flooding by reducing sediment deposition. Woodinville. Repair and stabilize two short sections of the right riverbank near I-405
81 WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	FCD Const	\$1,632,936	\$1,180,065	(\$452,871)	SO.	\$0	\$0	\$0			.00			24 400 005	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 1,405 proximity. Construction is targeted for summer 2016 and will likely require detouring trail users to adjacent
or the second and the second s		TOD CONST	\$1,002,900	\$1,160,003	19432,671)	30	ΦΩ	20	ΦÚ	\$0	\$0	\$0			\$1,180,065	
						-			2							Redmond, Willowmoor Floodplain Restoration Project seeks to reduce the frequency and duration of high take 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 take level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs, in June 2016 the Executive Committee approved a motion (2016-UA) authorizing 30% design of the spill-channel alternative including various design elements such as variable depth pools, cold water supplementation, and other elements itemized in the motion, Project
82 WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	FCD Const	\$2,255,441	\$3,520,977	\$1,265,536	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$3,520,977	costs will be updated when the 30% design is complete in December 2018,
83 WLFL6 BEAR CRK FLOOD EROSION REDMOND	Lk Wash Tribs	Agreement	\$0	\$0	\$0	\$550,000	\$550,000	\$0	\$0	\$0	\$0	\$1,100,000				Redmond: Protect Avondale Rd from an embankment that has been scoured by floodwaters from Bear Creek.
84 WLFL6 ISSAQUAH TRIB FEAS.	Lk Wash Tribs	Agreement	\$150,000	\$350,000	2700 000	20	***	60	40							Issaquah. Prepare a feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis to identify potential solutions to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the bridge,
44 METER ISOCRIBARI HIBB I END	LK 48 dati 1110a	Agreement	\$150,000	\$350,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$350,000	Bellevue, Reduce flooding during high-intensity storm events along Factoria
84 WLFL6 FACTORIA BLVD DRAINAGE	Lk Wash Tribs	Agreement	\$0	\$0	\$0	\$1,071,000	\$3,721,000	\$2,022,000	\$0	\$0	\$0	\$6,814,000				Boulevard, a major transportation corridor within the City of Bellevue, These events have increased in frequency and are anticipated to be even more frequent in the future as a result of climate change. Bellevue Increase conveyance capacity at the five box culvert crossings. Disconnect
85 WLFL6 LOWER COAL CRK PH I	l k Wash Trihs	Agreement	\$5,401,669	\$10,461,592	\$5,059,923	\$600,000	\$300,000	\$200,000	\$285,000	\$1,310,000	\$1,432,358	&4 ,127,358				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.
86. WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	Lk Wash Tribs	FCD Consl	\$0	\$380,000	\$380,000	\$150 ₀ 000	\$0	\$D	\$0	\$0.	\$0	\$150,000		9	\$530,000	Newcastle, As recommended in the May Creek Basin Plan, two sediment trap facilities will be constructed on May Creek tributaries (Cabbage and Country Creeks) to limit sediment loading. FCD funding is for Initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future sediment facility, 2020 funding is for permitting and design of a sediment facility.
										(a)						Renton, This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent, namely the levee setback projects at
97 WH 51 7 ODD DD5 00 WD7 070700 400								3.00								the Herzman, Jan Rd, Rhode, Getchman, and Rulledge-Johnson Lower Jones Rd levee segments. Acquisition funding related to these projects is now included in the
87 WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acqu/Elev	\$2,611,789	\$4,330,532	\$1,718,743	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$1,200,000			\$5,530,532	Individual capital projects. Renton, This six-year flood risk reduction capital investment strategy will cover the
88 WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corrido	Coder	FCD Const	\$1,850,907	\$4.007.F07	\$120 DB0				***	4.5						Cedar River valley from Landsburg Road SE (River Mile 22) to Lake Washington, Project complete. Closeout In 2020.
89 WLFLY CEDAR CIS MED TERM	Cedar	FCD Acqu/Elev	\$1,850,907	\$1,987,587	\$136,680	\$0	\$0	\$0	\$ 50	\$0	\$0	50			\$1,987,587	Renton, Elevate or acquire highest risk and repetitive loss properties from willing
90 WLFL7 CEDAR CIS LONG TERM	Cedar	FCD Acqu/Elev	\$0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$22,000,000	\$05,400,000		sellers. Elevate or purchase approximately 2 homes each year. Renton Implement projects identified in the Capital investment Strategy, approved as
91 WLFL7 CEDAR RES FLOOD MITIGATION	Cedar	FCD Acqu/Elev	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$800,000	\$800,000		\$35,400,000		policy direction by the Executive Committee. Renton, Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
92 WLFL7 CEDAR R REP LOSS MITGATN	Cedar	FCD Acqu/Elev	\$3,182,200	\$3,182,200	\$0	\$0	\$0	\$0	\$0	\$0	\$800,000	\$800,000				policy direction by the Executive Committee, Renton. Acquire frequently-flooded homes. Placeholder funding until District adopts acquisition policy.
	100111///			\$0,182,230	- 00						30	- 30			\$3,182,200	Renton, Capital Investment Strategy: Repair eroded section of left bank with bioengineered revelment to stabilize toe of bank and to prevent large scale bank
93 WLFL7 CRT SITE A BANK	Cedar	FCD Const	\$92	\$290,000	\$289,908	\$68,302	\$0	\$0	\$0	\$0	\$0	\$68,302			\$358,302	
94 WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Agreement	\$9,829,478	\$12,065,498	\$2,236,020	\$501,051	\$445,679	\$111,267	\$114,605	\$500,000	\$500,000	\$2,172,602		=	\$14,238,100	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.
95 WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100,000	Renton, Improve Cedar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
96 WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement	\$0	\$3,750,000	\$3,750,000	\$1,250,000	\$0	\$0	\$0	\$0	\$0	\$1,250,000				Renton. Levee improvements necessary to satisfy levee certification engineering recommendations.
97 WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqu/Elev	\$5,224,475	\$5,311,784	\$87,309		SO	2011			-222					Renton. Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds design elements
THE ELL OF CORRIDOR INFLEMENTATION	ocual	CO Acquirelev	93 ZZ4 A15	φυ,311,(84	261,309	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,311,784	of the Herzman project and Riverbend. Renton, Capital Investment Strategy: Selback levee; excavate side-channel to
98 WLFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	\$346,270	\$1,266,476	\$920,206	\$287,337	\$3,828,982	\$66,818	\$0	\$0	\$0	\$4,183,137			\$5,449,613	reduce pressure on revelment; reconstruct, reinforce and/or extend revelment; acquire up to 5 properties.

No. This	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasled	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
99 WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	FCD Const	\$34,384	\$1,484,731	\$1,450,347	\$622,137	\$4,845,422		Forecasted	\$0	\$0	\$6,295,830	18417-10	TOT Teal	\$7,780,561	Renton, Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study, Includes raise road, partial removal of Jan Road levee, construction of side channel, and mitigation of sir-risk properties. Construction phased for patients of the channel of the construction phased for patients of the channel of th
100 WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	FCD Const	\$342	\$400,000	\$399,658	\$0	\$120,000	\$0	\$0	\$0	\$0	\$120,000				Renton, Capital investment Strategy: Conduct feasibility study of Lower Cedar rea in City of Renton to 1) quantity economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis.
101 WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const	\$608,558	\$1,898,466	\$1 289 908	\$0	\$681,352	\$235,089	\$4,540,762		\$0	\$7 088 924			\$8,987,390	Renton, Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; remove portion of another revetment; acquire 8 at risk properties of a construction of the 2021 or 2020 and the properties of the 2021 or 2020 and the construction is 2021 or 2020 and the construction is 2021 or 2020 and the construction of 2021 or 2020 and 2021 or 2021 or 2020 and 2021 or 2021
102 WLFL7 MADSEN CR RENTON	Cedar	Agreement	\$0	\$635,000	\$635,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0				Renton, Design and implement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year level floor protection for properties north of SR 169.
103 WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	\$179_145	\$490,246	\$311,101	\$0	\$0	\$0	\$0	\$0	\$0	\$0			=====	Renton, Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the crickson Levee, Pending results of landslide hazard analysis, FCD will consider options for a project.
104 WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$100,000	Issaquah. Construct intersection improvements which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaquah Hobart Road SE and SE May Valley Road.
105 WLFLZ RIVERBEND MHP ACQ	Cedar	FCD Acqu/Elev	\$4,362,885	\$5,231,042	\$868,157	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,231,042	Renton. This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and iniliates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD portion of scope is complete.
106 WLFL7 MADSEN CR CULVERT 2017	Cedar	Agreement	\$206 205	\$1,100,000	\$893,795	\$1,470,000	\$0	\$0	\$0	\$0	\$0	\$1,470,000			\$2,570,000	Renton, To address a culvert fallure 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
107 WLFL7 SR 169 FEASIBILITY STUDY	Cedar	FCD Const	\$170,603	\$646,800	\$476,197	\$13B,203	\$0	\$0	50	80	\$0	\$138,203			\$785,003	Renton, Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates, Funding added in 2019 pending FCD decision to move forward with preliminary design.
108 Cedar-Sammamish Subtotal 109	COMM	1 GO GONSI	\$38,047,379				\$15,892,435	\$4,463,445	\$4,940,367	\$3,541,720	\$3,932,358	\$40,278,355	\$22,000,000	\$35,400,000	\$157,741,351	
110			404.070.000	500 200 074	to 057 005	60	\$0	\$0	*0	ėo.	***	***			600 000 074	Kent, Floodwall construction at four locations completed by the City of Kent, Final expenditures for the remainder of 2017 will include reimbursement for property acquisition and riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park, Per FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Selback project. The Briscoe project will be closed out once the District's ILA
111 WLFL® BRISCOE LEVFE SETBACK 112 WLFL® BRPS CONTROL BLDG RPLCMT	Green	Agreement FCD Const	\$21,072,606 \$106	\$23,330,271 \$380,506	\$2,257,665 \$380,400	\$0 \$1,926,876	\$7,813,278	\$13,241,331	\$9,647	\$0	\$0	\$22.991.133			\$23,371,639	with Kent expires in 2018. Renton, This project will design and build the second phase of renovations to the Black River pump station, Major components include replacement of the control building, replacement of the trash rake system, and replacement of the screen spray system.
113 WLFL8 BRPS FISH PASS IMPRVMNTS	Green	FCD Const	\$0	\$0	\$0	\$0	\$992,079	\$3,782,881	\$4,107,257	\$3,453,157	\$92,073	\$12,427,447			\$12,427,447	Renton, This project will design and build the fourth phase of renovations to the
114 WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	\$215,646	\$1,484,646		\$3,949,130	\$33,949	\$0	\$0	\$0	\$0	\$3,983,079				Renton. This project will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which run much more frequently than the other, larger pump engines.
115 WLFL® BRPS SUPPORT SYS UPGRADES	Green	FCD Const	\$0	\$0	\$0	\$1,149	\$183,181	\$940,317	\$876,479	\$12,074	\$0	\$2,013,200			\$2,013,200	Renton, This project will design and build the third phase of renovalions to the Black River pump station, replacing support systems such as engine control panels, coolin systems, ollers and hoists. Black Diamond: Remove the three 6-foot diameter culverts where Lake Sawyer flows
116 WLFLB COVINGTON CR BLACK DIAMOND	Green	Agreement	\$0	\$0	\$0	\$291,500	\$2,002,000	\$0	\$0	\$0	\$0	\$2,293,500			\$2,293,500	Links A planton. Anything with times of both dialnets a survey in which cash a same in low into Covington Creek and replace with a bridge to eliminate obstructions for water flow and allow passage for migrating salmon. Auburn. Conduct a feesibility study to raise the levee providing 100-year flood
116 WLFLB GALLI-DYKSTRA FEASIBILITY	Green	FCD Const	\$0	\$330,000	\$330,000	(\$330,000)	\$0	\$0	\$0	\$0	\$0	(\$330,000)			\$0	protection plus 3 feet of freeboard. Canceled and incorporated into Galli-Dykstra 2020 Repair. Auburn, Complete Phase 1 repair per a request from the City of Auburn, Elevate
117 WLFL8 GALLLDYKSTRA 2020 REPAIR	Green	FCD Const	\$0	\$200,000	\$200,000	\$207,314	\$1,750,783	\$0	\$0	\$0	\$0	\$1,958,097			\$2,158,097	3500 feet levee reach to meet FEMA levee certification requirements. Tukwila. This project will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to construction
118 WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/Elev	\$393,751	\$10,368,856	\$9,975,105	so	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$25,000,000			\$35,368,856	Schedules for those projects, Auburn. This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program. The current mitigation effort is the
119 WLFL8 GREEN R PL84-99 MITIGATN	Green	FCD Const	\$5,173,981	\$5,660,542	\$486,561	\$0	\$0	\$0	\$0	\$0	\$0	\$0	i i		\$5,660,542	Teufel project scheduled for 2018 construction. Kent, New project to implement interim SWIF adopted by Board of Supervisors. This
																project will reconstruct the Horseshoe Bend Levee at the Breda reach (RM 24.46- 24.72) to a more stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain the 500-year (0.2% annual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.
20 WLFL8 HSB BREDA SETBACK KENT	Green	Agreement	\$834,330	\$4,758,953	\$3,924,623	\$2,431,377	\$8,381,110	\$43,709	\$0	\$0	\$0	\$10,856,196			\$15,615,149	parety rating of the horsestive bend levee.

	1															
			2018 Inception	2019												
No. Title	Basin	Type of project	to Date	Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
121 WLFL8 HSB MCCOY REALIGNMENT KENT	Green	Agreement	\$4,138			\$116,138		\$764,909	\$0	\$0						Kenl. 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 feel). 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
122 WLFL8 HSB NURSING HOME SETBACK	Green	FCD Const	\$0	\$0	\$0	80	\$100,000	\$2,000,000	\$500,000	\$0	\$0	\$2,600,000			\$2,600,000	Kent. New project to implement interim SWIF adopted by Board of Supervisors. The Nursing Home tovoo is over eleepened and doos not moot current onginooring standards. The economic consequence of levee fallure or overlopping to the lower Green River valley is extensive and could cause tens of millions of doltars in damage. This capital project area contains a 'Minimally Acceptable' deliciency by the US Army Corps of Engineers at RM 25, 5 (over sleepened 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.
					,,,		731-73117			1.5		3-00-01-00-0				Kent, Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in the
123 WLFL8 INTERIM SWIF IMPLEMENTATION	Green	FCD Const	\$86,887	\$85,000	\$18,113	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$85,000	operating budget. Contribute the partial cost of a levee repair (\$500,000) to a \$6.4 million levee setback
124 WLFLB LONES LEVEE SETBACK	Green	Agreement	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000			\$500,000	project, funding is to be focused on flood reduction purpose. By relocaling the levee, flood risks as well as future repair costs for the Flood Control District are reduced.
124 WLFL8 LOWER RUSSELL ACQ KENT	Green	Agreement	\$1,059,834	\$1,023,656	(\$36,178)	\$0	\$0	\$0	50	\$0	\$0	\$000,000			\$1,023,656	Kent, Acquisitions by the City of Kent for the Lower Russell levee setback project.
125 WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	FCD Consi	\$233,117	51,743,249	\$1,510,132	\$ 0	\$0	\$0	\$0	\$0	\$0				\$1,743,249	Kent, Lower Green River Corridor Planning and Environmental Impact Statement,
126 WLFL8 LWR RUSSELL LEVEE SETRACK	Green	FCD Const	\$12,147,579	\$17,462,534	\$5.314.955	\$26,447,505	\$4,116,794	\$6,358,982	\$12,710	\$0	\$0	\$36,935,991			\$54,398,525	Kent. Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile 17,85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquallo habitat. Increased expenditure authority to match Interim SWIF adopted by Board of Supervisors.
		1	5 AWO 115 27795	ST. WALLOW			3300 3300 310	3032-02-00-00							3,307,649,932	Kent. Prepare an analysis and study of design and construction afternatives to provide flood protection, scour protection, enable levee certification and secure
127 WLFLB MILWAUKEE LEVEE #2-KENT	Green	Agreement	\$296,589	\$19,400,000	\$19,103,411	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$19,400,000	necessary land rights. Auburn. This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. Alternative selection is pending; alternative 1 is assumed
128 WLFL8 OLD JEFFS FARM REVETMENT	Green	FCD Const	\$221,298	\$826,802	\$605,504	\$50,525	\$3,040,810	\$81,863	\$0	\$0	\$0	\$3,173,198			\$4,000,000	as a placeholder. Auburn. This project will address scour damage to the bridge, which is on the primary
129 WLFLB GREEN SCOUR REPAIR 2017	Green	Agreement	\$47,524	\$150,000	\$102,476	\$0	\$0	\$0	\$0	\$0	50	\$0			\$150,000	Ihrough route of the Green River Valley Rd. The bridge is also a King County landmark.
130 WLFL8 GREEN R IMPROVEMENT 2024	Green	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100,000	Auburn, Improve SE Green Valley Road near SE Auburn Black Diamond Road and alleviale roadway flooding by raising the road through the application of a thick layer of overlay.
131 WLFL8 PORTER LEVEE	Green	FCD Const	\$720,000	\$720,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0					Authurn. 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 funding to elevate the road so that the school bus serving libs neighborhood does not have to drive in the oncoming lane to avoid floodwaters.
132 WLFL6 RUSSELL RD UPPER KENT	Green	Agreement	\$6,054,711	\$6 082 173	\$27,462	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$6,082,173	
132 WLFLB S 106TH ST DRAINAGE IMPVMNT	Green	Agreement	\$0		\$0	\$451,000	.\$0	\$0	\$0	\$0	\$0	\$451,000			\$451,000	Burrien: Replace an existing damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding. This villa. The project will increase the height of a libed wall to provide approximately.
133 WLFL8 S 180TH ST BRIDGE FLOODWALL EXT	Green	Agreement	\$0	\$65,378	\$65,378	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$65,378	Tukwila. The project will increase the height of a flood walf to provide approximately 30" of additional flood protection.
134 WLFL8 SIGNATURE PT REVETMENT KENT	Green	Agreement	\$89,843	\$300,000	\$210,157	\$1,445,000	\$26,777,500	\$26,777,500	\$0	\$0	\$0	\$55,000,000			\$55,300,000	Kent, Project provides increased level of protection to 1,5 miles of Lower Green River Corridor, Allernative selected by Executive Committee. Kent, Repair of the recent damage to the Titus Pil RB revelment is needed to prevent
135 WUFLS TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	\$167,738	\$250,000	\$82,262	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$250,000	a potential revelment failure and Green River road collapse. The revelment protects an adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road.
136 WLFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const	\$0	\$0	\$0	\$0	\$0		\$300,000	\$0	\$0					Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwell and sloped embankment to protect adjacent businesses from flooding. The floodwell alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized during the project design phase. Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a facility to bring this levee segment in compliance with certification requirements for structural stability and raise the levee to roughly the 500 year event.
137 WLFL® TUK-205 GUNTER FLOODWALL	Green	FCD Const	\$0	\$0	\$0		\$16,250,000		\$0	\$0	\$0				3	Tukwila. US Army Corps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted interim SWIF. The USACE will share remaining 2/3 of the cost; this allocation is the local share of 1/3 of their cost. Remains according to proceedings.
137 WLFL8 TUK-205 USACE GACO-SEGALE	Green	FCD Const	\$762,960		\$14,969,458	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$15,732,418	Seattle, Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project schedule. Implemented by the City of Seattle, Expenditure forecast to be updated based on
138 WLFLS SOUTH PARK PUMPSTATION	Seattle	Agreement	\$1,819,777	\$1,787,004	(\$32,773)	\$4,717,996	\$0	\$0	\$0	\$0	\$0	\$4,717,996	L .	1	\$6,505,000	current project schedule.

No. Tille	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
139 WLFLS PUGET WAY CULVERT	Seattle	Agreement	\$0	\$1,800,000	\$1,800,000	\$0	\$0	\$0	\$D	\$0	\$0	\$0			\$1 800 000	Seattle, This project will replace an aging and undersized creek culvert under Puge Way SW in Seattle.
140 WLFLS S PARK DRAINAGE IMPROVEMENTS	Seattle	Agreement	\$412,995	\$1,000,000	\$587,005	\$9,075,000	\$7,030,000	\$0	\$0	\$0	30	\$16,105,000			\$17,105,000	Seattle, The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. The
141 WLFLB TUKWILA RVTMT 2019 REPAIR	Green	FCD Const	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$500,000	
142 Green-Duwnmish Subtotal 143			\$51,795,409	\$115,841,988	\$84,046,578	\$53,280,510	\$85,805,463	\$76,741,492	\$10,806,094	\$8,585,231	\$5,092,073	\$240,290,863	\$0	\$0.	\$356,132,852	
144																
145 WLFL9 212TH AVE SE @ SR 164 FLD IMPRVMNT 144 WLFL9 212TH AVE SE MITIGATION	Green White	Agreement Agreement	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$29,000	\$0 \$36,000	\$0 \$0	\$0 \$0	\$0 \$0	\$190,000 \$0	\$190,000 \$65,000				Enumclaw. Improve the drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way. Enumclaw. TBD
145 WLFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$100,000	Enumclaw. Park is split by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
146 WLFL9 BUTTE AVE FLOOD MITIGATION	While	Agreement	\$194,089	\$470,000	\$275,911	\$0	\$0	so	\$0	\$0	\$0	***			\$470,000	Pacific, This project will reduce flood risks to residences and businesses in the Citie of Pacific and Algona by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to flooding.
140 WEI ES BOTTE AVET EGOD MITIGATION	VVIIIC	Adieement	\$134,003	9410,000	W210,011	20	30	- 50	90	20	30	30			\$470,000	Tukwila, Reduces flood elevations that impact residential neighborhoods in the City
147 WLFL9 COUNTYLINE TO A STREET	White	FCD Const	\$23,828,084	\$24,004,419	\$176,335	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$24.004.419	of Pacific (200 homes, with \$52 million of assessed and \$13 million content value), improves sediment storage and enhances habitat.
148 WLFL9 RIGHT BANK LEVEE SETBACK	White	FCD Const	\$12 234 992	\$13,843,157	\$1,608,165	\$295,835	\$973,966	\$7,172,705	\$8,508,038	\$136,895	so	\$17,087,439				Pacific. Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River Estates neighborhood.
						10-31/13				.11.11.00					¥25,000,000	Greenwaler. In mid-2018 budget reallocation, funding was authorized to acquire a vacant properly localed outside flood hazard area on the north side of Highway 410. Subsequent site visits identified multiple unpermitted structures and a well; additiona funding necessary to complete demolition and asbestos abatement at a remote and
149 WLFL9 SLIPPERY CREEK ACQ	While	FCD Acqu/Elev	\$10,377	\$180,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$180,000	inaccessible location,
150 WLFL9 CHARLIE JONES US CULVERT	White	Agreement	\$84,413	\$190,000	\$105,587	\$400,000	\$100,000	\$0	\$0	\$0	\$0	\$500,000			\$690,000	Auburn, This project will analyze culvert replacement and road-raising options and implement the preferred option. Auburn This project will analyze culved seekeepeel and road raising options and full purple.
151 WLFL9 CHARLIE JONES DS CULVERT	While	Agreement	\$0	\$0	\$0	\$0	\$150,000	\$1,500,000	\$0	\$0	\$0	\$1,650,000			\$1,650,000	Auburn, This project will analyze culvert replacement and road-raising options and implement the preferred option.
																Auburn. Loss of facing rock along 130' of the lower half of the embankment, Some o the gravel fill under the rock has eroded as well, leaving a near-vertical face supporting the rock remaining on the upper slope, The rock that slid down is currently
152 WLFL9 STUCK R DR 2019 REPAIR 153 White Subtotal 154	White	FCD Const	\$36,351,955	\$200,000 \$38,987,576	\$200,000 \$2,465,998	\$446,374 \$1,171,209	\$1,259,966	\$8,672,705	\$8,508,038	\$136,896	\$190,000	\$446,374 \$19,938,813	\$0	\$0	\$646,374 \$58,926,389	providing scour protection at the toe.
155	and the second second second	Antonion (Marcollo)	40		17840		-			-						777-77-78-78-10-77-78-78-78-78-78-78-78-78-78-78-78-78-
156 WLFLX CORRIDOR PLN DESIGN/CONST PLACEHOL 157 Countywide Corridor Plan Imp Subtotal	D Countywide	FCD Const	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0	Placeholder for corridor plan implementation project(s)
158 159																
160 WLFLG FLOOD REDUCTION GRANTS	Countywide	Grant	\$8,993,154	\$17,852,257	\$8,859,103	\$5,880,201	\$3,363,133	\$3,448,863	\$3,531,622	\$3,612,948	\$3,693,134	\$23,529,901			\$41,382,158	Compelitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
161 WLFLG WRIA GRANTS	Countywide	Grani	\$20,647,848	\$32,303,948	\$11,656,100	\$4,810,172	\$4,939,566	\$5,072,440	\$5,208,889	\$5,349,008	\$5,492,896	\$30,872,971			\$63,176,919	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups, Increase based on assumed inflation rate.
162 WLFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	\$2,385,821	\$2,929,221	\$543,400	\$330,232	\$890,956	\$834,056	\$892,524	\$804,751	\$585,512	\$4,338,030			\$7,267,251	Evaluation of capital projects to determine effectiveness and identify project design improvements.
163 WLFLO SUBREGNL OPPRINTY FUND	Countywide	Grant	\$34,916,901	\$55,311,183	\$20,394,282	\$6,091,017	\$6,255,428	\$6,414,885	\$6.568.817	\$6,720,084	\$6,869,230	\$38,919,461			\$94,230,644	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects, increases as a proportion of total FCD tax revenue.
164 WLFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	50	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$500,000	Stockpile role for future flood damage repairs.
165 WLFLX CENTRAL CHARGES 166 WLFLX FLOOD EMERGENCY CONTGNCY	Countywide	FCD Const FCD Const	\$748,397 \$419,042	\$1,011,493 \$1,050,917	\$263,096 \$631,875	\$100,000	\$142,592 \$250,000	\$146,870 \$250,000	\$151,276 \$250,000	\$155,815 \$250,000	\$160,469 \$250,000	\$1,250,000			\$1,868,535 \$2,300,917	Central charges related to the FCD's capital fund. Contingency for emergency response actions during a flood event.
167 Countywide Subtotal		THE PERSON NAMED IN COLUMN 1		\$110,959,019	\$42,847,856	\$17,211,622	\$15,841,675	\$16,167,114	\$16,603,128	\$16,892,606	\$17,051,281	\$99,767,405	\$0	\$0	\$210,726,424	estimated for emoration response actions during a troop event.