FCD Resolution

Proposed No. FCD2019-13.2

Sponsors

A RESOLUTION relating to the operations and
finances of the District, adopting the 2020 budget
and authorizing improvements.

WHEREAS, pursuant to RCW 86.15.140, the King County Flood Control Zone
District (District) held a public hearing on the proposed 2020 budget of the District on
October 30, 2019, and

WHEREAS, the board of supervisors (Board) desires to adopt the District’s 2020
budget, and

WHEREAS, by Ordinance 15728, the King County council adopted the District’s
initial comprehensive plan of development for flood and stormwater control, which is
titled "2006 King County Flood Hazard Management Plan," and by Resolution
FCD2011-05.1, the District Board amended the initial plan to include a project in the city
of Seattle (collectively, the District Comprehensive Plan), and

WHEREAS, pursuant to RCW 86.15.110, the Board must approve by resolution
all flood control and storm water control improvements, prior to the extension,
enlargement, acquisition or construction of such improvements, and

WHEREAS, RCW 85.15.110, further provides that such approval resolution must
state whether the improvements are to be extended, enlarged, acquired or constructed;
state that the comprehensive plan has been adopted; state that the improvements generally
contribute to the objectives of the comprehensive plan; state that the improvements will
benefit the county as a whole; state the estimated costs of the improvements; and identify
the data supporting the estimated costs, and

WHEREAS, the Board desires to approve improvements in the District’s 2020
budget that are not in the District Comprehensive Plan, or that have been modified by the
District’s 2020 budget, in accordance with RCW 85.15.110, and

WHEREAS, the District reaffirms its commitment to the effective and efficient
implementation of capital projects by contracting with King County, as its primary
service provider, and other jurisdictions when appropriate;

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

SECTION 1. The Board hereby adopts the 2020 Budget for the District, as set
forth in Attachments A ("Work Program"), B ("2020 Annual Budget"), C ("2020 Annual
Operating Budget"), D ("2020 Annual Capital Budget"), E ("2020 - 2025 Six-Year CIP"),
F ("2020 Annual District Oversight Budget"), G ("2020 Subregional Opportunity Fund
Allocations") and H ("2020-2025 Six-Year CIP Project Allocations"); provided that King
County, or other jurisdictions contracted to implement projects, work shall submit
predesign reports for capital projects to the District executive director, and shall seek
approval from the executive director of project charters. Furthermore, King County shall
provide to the District executive committee thirty percent design project reports for
authorization to proceed with sixty percent design.

SECTION 2. The Board approves the extension, enlargement, acquisition or
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 modified by Attachments C, D and H to this resolution, or that are not included in the District Comprehensive Plan but are identified in Attachments C, D and H to this resolution (collectively, the "Improvements"). The District Comprehensive Plan includes the streams or water courses upon which the Improvements will be enlarged, extended, acquired or constructed. The Board determines that the Improvements generally contribute to the objectives of the District Comprehensive Plan and will be of benefit to the county as a whole.

SECTION 3. The estimated costs of the Improvements are stated in Attachments C, D and H to this Resolution and the supporting data for the estimated costs are on file with the director of the King County water and land resources division.

SECTION 4. For Improvements that will be constructed, preliminary engineering studies and plans either have been prepared or will be prepared, and have been filed or will be filed, with the director of the King County water and land resources division.

SECTION 5. The Board authorizes the executive committee to modify project budgets and schedules identified in Attachment H.

SECTION 6. The Board approves a one-time funding increase of the Flood Reduction Grant Program to fulfill unmet flood risk reduction needs in 2019 partial grant recipients and new additional applicants, if any.

SECTION 7. The Board directs King County water and land resources division to develop recommendations for the maintenance and operations of flood risk reduction facilities in the Sammamish River Basin, including sediment management at the mouth of the Sammamish River.
SECTION 8. The Board directs King County water and land resources division to develop recommendations for the replacement of high-value culverts for flood risk reduction and fish passage by April 30, 2020. This report shall incorporate the information required in King County Council Motion 15328 and shall prioritize high value culverts in incorporated and unincorporated King County.

SECTION 9. The Board directs King County water and land resources division to develop recommendations for the maintenance and operations of the weir on Lake Sawyer.

SECTION 10. The Board directs King County roads services division to develop recommendations related to flooding concerns in Skyway.

SECTION 11. The Board directs King County water and land resources division to convert eight temporary term limited positions to full time positions to District project delivery goals.

SECTION 12. The Board directs King County water and land resources division to prioritize the Middle Fork Snoqualmie Sediment Management study and the following capital projects for implementation in the 2020-2025 capital improvement program as a condition for using District funds to pay for five new capital project staff positions: Middle Fork Snoqualmie PL 84-99 study, Tukwila - 205 Gunter Floodwall and other capital projects ready for implementation.

SECTION 13. The Board directs King County water and land resources division to provide a monthly report to the District executive director on the status of recruitment and hiring of all vacant and newly authorized positions funded by the District. If any of 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 goals through alternative contracting methods.

SECTION 14. The Board directs King County water and land resources division to provide a monthly report to the District executive director on the status of inspections of all facilities monitored and maintained by King County as a service provider to the District.

SECTION 15. The Board directs King County water and land resources division to provide a quarterly report to the District executive director on the status of progress on items in the Work Program as set forth in Attachment A.

SECTION 16. The Board directs King County water and land resources division to provide a report on all facilities monitored and maintained by King County as a service provider to the District that have been altered as the result of a capital project by any entity other than the rivers and floodplain management section of King County water and land resources division by March 31, 2020.

SECTION 17. The Board directs the District executive director to provide a report on how the District can contribute to the repairs of the Hiram M. Chittenden Ballard Locks operated by the United States Army Corps of Engineers by March 31, 2020.

SECTION 18. Section 3.6 of the interlocal agreement between the District and King County provides that King County shall notify the District executive director in writing if the county needs to modify or reprioritize capital projects. King County’s notifications to the District executive director should include information regarding variations within project budgets of more than twenty percent in the "acquisition", 
FCD Resolution

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

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

ATTEST:

Reagan Dunn, Chair

Melani Pedroza, Clerk of the District

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
  - 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
  - Legal services, financial management, and Washington State audit

- **Operations Work Program**
  - Annual Maintenance
  - Flood Hazards Plan, Grants, Outreach
  - Flood Hazard Studies, Maps, Technical Services
  - Flood Preparation, Flood Warning Center, Post Flood Recovery
  - Program Management, Supervision, Finance, Budget
  - Program Implementation,
  - 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
- 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
- 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
- Lower Green River Planning Process
- 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
- Greenwater and Lower Snoqualmie CMZs
- Evaluation of future flooding scenarios in partnership with the University of Washington
- Small stream flood studies
- Lake Saywer Weir analysis

Grants
- Monitor Opportunity Fund Project Implementation
- Monitor WRIA/CWM Grant progress and identify leveraging opportunities
- 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 post-flood 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:
  - Floodplain delineation and mapping
  - 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 States 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 logjam 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**
  - 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
    - **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
        - 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
    - Pre-project baseline information
    - 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.
# King County Flood Control District

## 2020 Annual Budget

**Attachment B**

11/6/2019

<table>
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<tr>
<th>Program</th>
<th>2018 Actuals</th>
<th>2019 Approved</th>
<th>2019 Revised</th>
<th>2020 Requested</th>
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<td>Projected Capital Reserves - Cash Fund Balance ¹</td>
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<td>Projected Capital Reserves - Budgetary Fund Balance ²</td>
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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.
# King County Flood Control District

## 2020 Annual Operating Budget

**Attachment C**

11/6/2019

<table>
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<th>2018 Actuals</th>
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<tr>
<td>Program Implementation</td>
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<td>Overhead / Central Costs</td>
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<td><strong>Total</strong></td>
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<td><strong>$12,839,055</strong></td>
<td><strong>$13,370,743</strong></td>
<td><strong>$13,464,210</strong></td>
</tr>
</tbody>
</table>
# King County Flood Control District

## 2020 Annual Capital Budget

**Attachment D**

11/6/2019

<table>
<thead>
<tr>
<th>Basin</th>
<th>Acquisition</th>
<th>Design</th>
<th>Construction</th>
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<tr>
<td>Snoqualmie River Basin</td>
<td>$414,037</td>
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<td>White River Basin</td>
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<td><strong>$6,201,032</strong></td>
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## King County Flood Control District
### 2020 - 2025 Six-Year CIP
#### Attachment E

<table>
<thead>
<tr>
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<tr>
<td>Snoqualmie River Basin</td>
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<td>Cedar River Basin</td>
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<td>White River Basin</td>
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<td>Countywide Corridor Plan Im</td>
<td>$0</td>
<td>($142,610)</td>
<td>-</td>
<td>-</td>
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<td>Countywide Miscellaneous</td>
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<td>6,720,084</td>
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<td>Flood Reduction Grants</td>
<td>$2,082,721</td>
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<td>3,448,865</td>
<td>3,531,622</td>
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<td>WRIA Grants</td>
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<td>5,208,889</td>
<td>5,349,006</td>
<td>5,492,866</td>
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<td><strong>151,567,324</strong></td>
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<td><strong>124,808,033</strong></td>
<td><strong>54,413,034</strong></td>
<td><strong>56,282,793</strong></td>
<td><strong>55,590,266</strong></td>
<td><strong>506,741,633</strong></td>
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## 2020 Annual District Oversight Budget

### Attachment F

11/6/2019

<table>
<thead>
<tr>
<th>Category</th>
<th>2019</th>
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<tbody>
<tr>
<td></td>
<td>Adopted</td>
<td>Revised</td>
<td>Proposed</td>
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<td>Management &amp; Support</td>
<td>$290,310</td>
<td>$290,310</td>
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<td>Rent and Equipment</td>
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<td>$12,299</td>
<td>$12,668</td>
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<td>Legal Services</td>
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<td>Accounting</td>
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<td>State Auditor</td>
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<td>Other Professional Services</td>
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<td>Expenses</td>
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<td>Insurance</td>
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<td><strong>Total</strong></td>
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<td><strong>$886,638</strong></td>
<td><strong>$913,238</strong></td>
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</table>
King County Flood Control District

**2019 Subregional Opportunity Fund Allocations**

**Attachment G**

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Opportunity Fund Allocation</th>
<th>Project Name</th>
<th>Project Description</th>
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<tbody>
<tr>
<td>Algona</td>
<td>$10,000</td>
<td>DEFERRING</td>
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</tr>
<tr>
<td>Auburn</td>
<td>$86,211</td>
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</tr>
<tr>
<td>Bellevue</td>
<td>$15,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brier</td>
<td>$605,377</td>
<td>MeanderBear Basin NE 9th St &amp; 100th Ave NE</td>
<td></td>
</tr>
<tr>
<td>Black Diamond</td>
<td>$10,000</td>
<td>SFR 108 &amp; North Commercial Stormwater Treatment Facility</td>
<td>Design, permit and construct a vault to treat stormwater along SR 108.</td>
</tr>
<tr>
<td>Bothell</td>
<td>$71,547</td>
<td>DEFERRING</td>
<td></td>
</tr>
<tr>
<td>Burien</td>
<td>$12,000</td>
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<td></td>
</tr>
<tr>
<td>Clyde Hill</td>
<td>$28,225</td>
<td>Copley Hill 2020 Storm Sewer Improvement Program</td>
<td>Construct a flow splitter and add storm drain extension to address Copley Hill 2020 Storm Sewer Improvement Program.</td>
</tr>
<tr>
<td>Covington</td>
<td>$27,085</td>
<td>DEFERRING</td>
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<tr>
<td>Des Moines</td>
<td>$43,468</td>
<td>DEFERRING</td>
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<tr>
<td>Duvall</td>
<td>$21,500</td>
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<tr>
<td>Enumclaw</td>
<td>$15,000</td>
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<tr>
<td>Federal Way</td>
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<td>Hunts Point</td>
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<tr>
<td>Issaquah</td>
<td>$10,774</td>
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<tr>
<td>Kent</td>
<td>$47,378</td>
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<tr>
<td>Kent County</td>
<td>$489,970</td>
<td>Natural Drainage Flood Program</td>
<td>Amendment adding budget to project that will replace culverts to reduce flooding frequency of road and downtown area.</td>
</tr>
<tr>
<td>Kirkland</td>
<td>$270,134</td>
<td>Early Detection at a street</td>
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<tr>
<td>Lake Forest Park</td>
<td>$37,834</td>
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<tr>
<td>Maple Valley</td>
<td>$38,340</td>
<td>Jenkins Creek - White Road Culvert Replacement</td>
<td>Replace existing undersized culvert under White Road with concrete box culvert.</td>
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<tr>
<td>Medina</td>
<td>$42,864</td>
<td>Medina Park Stormwater Pond Improvements</td>
<td>Amendment adding budget to complete permitting, removing organic sediment, and installing outlet control device in upper pond.</td>
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<tr>
<td>Mercer Island</td>
<td>$141,177</td>
<td>Mercer Landing Stormwater &amp; Park Improvements Design</td>
<td>Amendment adding budget to design stormwater, shoreline and park improvements at a street.</td>
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<tr>
<td>Milton</td>
<td>$10,000</td>
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<tr>
<td>Newcastle</td>
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<td>Normandy Park</td>
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<td>North Bend</td>
<td>$19,709</td>
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<tr>
<td>Puyallup</td>
<td>$10,000</td>
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<tr>
<td>Redmond</td>
<td>$90,317</td>
<td>Willows Road Culverts</td>
<td>Amendment to add budget to replace undersized culvert with larger, fish passable box culvert.</td>
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<tr>
<td>Renton</td>
<td>$182,600</td>
<td>NE 16th and Jefferson Avenue NE Stormwater System Connections</td>
<td>Improve conveyance and water quality along NE 16th St. and Jefferson Ave NE - install pipe, catch basins, bioretention facilities.</td>
</tr>
<tr>
<td>Sammamish</td>
<td>$177,027</td>
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<td></td>
</tr>
<tr>
<td>Sea Tac</td>
<td>$35,686</td>
<td>DEFERRING</td>
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</tr>
<tr>
<td>Seattle</td>
<td>$2,614,258</td>
<td>Broadview 13th Ave NW Drainage &amp; Flooding Improvements</td>
<td>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 Mohlerdorph basin.</td>
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<tr>
<td>Shoreline</td>
<td>$14,074</td>
<td>Pump Station 38 Replacement</td>
<td>Amendment to add budget and extend timeframe to replace aging pump station</td>
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<tr>
<td>Skykomish</td>
<td>$10,000</td>
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<tr>
<td>Snohomish</td>
<td>$30,947</td>
<td>DEFERRING</td>
<td></td>
</tr>
<tr>
<td>Tukwila</td>
<td>$60,871</td>
<td>2. Replace barrier culvert</td>
<td>1. Rehabilitate habitat within Riverton Creek and improve its connection to Duvamish River 2. Install treatment facilities to reconstruct a conveyance system and improve water quality in Duvamish River</td>
</tr>
<tr>
<td>Woodinville</td>
<td>$37,940</td>
<td>DEFERRING</td>
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<tr>
<td>Yarrow Point</td>
<td>$13,150</td>
<td>SODO NE 43rd St. Stormwater</td>
<td>Update stormwater pipe to 24-inches</td>
</tr>
</tbody>
</table>

**Jurisdiction Totals**

$8,794,489

**Deferrals**

$960,656

**Projects**

$7,833,833
North Fork is located in the Snoqualmie River basin adjacent to the Skykomish River. It is a tributary of the Skykomish River and drains the Skykomish East Fork. North Fork is a significant salmon feeding area for several salmon species.

The proposed project would include the following components:

1. **North Fork Bridge 2016 Repair**
   - **Flows:** Project Cost: $2,150,000
   - **Funding:** Federal award: $2,150,000
     - **Source:** FHWA
   - **Total Cost:** $2,150,000
   - **Year:** 2016

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

2. **North Fork Bridge 2018 Repair**
   - **Flows:** Project Cost: $3,150,000
   - **Funding:** Federal award: $3,150,000
     - **Source:** FHWA
   - **Total Cost:** $3,150,000
   - **Year:** 2018

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

3. **North Fork Bridge 2020 Repair**
   - **Flows:** Project Cost: $4,150,000
   - **Funding:** Federal award: $4,150,000
     - **Source:** FHWA
   - **Total Cost:** $4,150,000
   - **Year:** 2020

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

4. **North Fork Bridge 2022 Repair**
   - **Flows:** Project Cost: $5,150,000
   - **Funding:** Federal award: $5,150,000
     - **Source:** FHWA
   - **Total Cost:** $5,150,000
   - **Year:** 2022

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

5. **North Fork Bridge 2024 Repair**
   - **Flows:** Project Cost: $6,150,000
   - **Funding:** Federal award: $6,150,000
     - **Source:** FHWA
   - **Total Cost:** $6,150,000
   - **Year:** 2024

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

6. **North Fork Bridge 2026 Repair**
   - **Flows:** Project Cost: $7,150,000
   - **Funding:** Federal award: $7,150,000
     - **Source:** FHWA
   - **Total Cost:** $7,150,000
   - **Year:** 2026

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

7. **North Fork Bridge 2028 Repair**
   - **Flows:** Project Cost: $8,150,000
   - **Funding:** Federal award: $8,150,000
     - **Source:** FHWA
   - **Total Cost:** $8,150,000
   - **Year:** 2028

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

8. **North Fork Bridge 2030 Repair**
   - **Flows:** Project Cost: $9,150,000
   - **Funding:** Federal award: $9,150,000
     - **Source:** FHWA
   - **Total Cost:** $9,150,000
   - **Year:** 2030

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

9. **North Fork Bridge 2032 Repair**
   - **Flows:** Project Cost: $10,150,000
   - **Funding:** Federal award: $10,150,000
     - **Source:** FHWA
   - **Total Cost:** $10,150,000
   - **Year:** 2032

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

10. **North Fork Bridge 2034 Repair**
    - **Flows:** Project Cost: $11,150,000
    - **Funding:** Federal award: $11,150,000
      - **Source:** FHWA
    - **Total Cost:** $11,150,000
    - **Year:** 2034

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

11. **North Fork Bridge 2036 Repair**
    - **Flows:** Project Cost: $12,150,000
    - **Funding:** Federal award: $12,150,000
      - **Source:** FHWA
    - **Total Cost:** $12,150,000
    - **Year:** 2036

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

12. **North Fork Bridge 2038 Repair**
    - **Flows:** Project Cost: $13,150,000
    - **Funding:** Federal award: $13,150,000
      - **Source:** FHWA
    - **Total Cost:** $13,150,000
    - **Year:** 2038

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

13. **North Fork Bridge 2040 Repair**
    - **Flows:** Project Cost: $14,150,000
    - **Funding:** Federal award: $14,150,000
      - **Source:** FHWA
    - **Total Cost:** $14,150,000
    - **Year:** 2040

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

14. **North Fork Bridge 2042 Repair**
    - **Flows:** Project Cost: $15,150,000
    - **Funding:** Federal award: $15,150,000
      - **Source:** FHWA
    - **Total Cost:** $15,150,000
    - **Year:** 2042

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

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The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.

The project would involve the repair and replacement of the bridge to improve safety and functionality for both motorists and pedestrians.
In the future, structures in the current levee system may not provide enough hydraulic opening due to the continuing erosion of the riverbank. Add-whoelling and reconstruction of the levee system will continue to acquire or elevate properties in the Fall City reach of the Lower Snoqualmie. Cost-shared contribution of homes, and elevation or flood proofing downstream may be necessary to protect the riverbank and public safety. The city is designing these improvements to protect the Coast and provide a safe and stable floodplain to help them better withstand major flooding and potential failure. This site will be developed by the US Army Corps in cooperation with the City of Fall City and the Snoqualmie Valley. The project will provide a safe and stable floodplain to help them better withstand major flooding and potential failure.

Table:

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Year CIP</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
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<td>Shuck Creek Flood Control</td>
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</table>

**Conclusions:**

- The city is continuing to acquire or elevate properties downstream to protect public safety. This site will be developed by the US Army Corps in cooperation with the City of Fall City and the Snoqualmie Valley. The project will provide a safe and stable floodplain to help them better withstand major flooding and potential failure.
- The city is designing these improvements to protect the coast and provide a safe and stable floodplain to help them better withstand major flooding and potential failure.

**Figures:**

- Figure 1: Current levee system with potential locations for future improvements.
- Figure 2: Proposed levee system with potential locations for future improvements.
- Figure 3: Proposed levee system with potential locations for future improvements.

**Tables:**

<table>
<thead>
<tr>
<th>Project Name</th>
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</tbody>
</table>

**References:**

- Shuck Creek Flood Control, City of Fall City, 2022.
- Proposed levee system with potential locations for future improvements. This site will be developed by the US Army Corps in cooperation with the City of Fall City and the Snoqualmie Valley. The project will provide a safe and stable floodplain to help them better withstand major flooding and potential failure.
- Proposed levee system with potential locations for future improvements.
- Proposed levee system with potential locations for future improvements.

**Figures:**

- Figure 1: Current levee system with potential locations for future improvements.
- Figure 2: Proposed levee system with potential locations for future improvements.
- Figure 3: Proposed levee system with potential locations for future improvements.

**Tables:**

<table>
<thead>
<tr>
<th>Project Name</th>
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### Page 3 of 7

**Revised Fall City Repairs, August 2021**

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**Comments**

- **Fall City Repairs, August 2021**
  - Project involves the repair and improvement of Fall City levees and structures.
  - Work includes excavating, replacing, and repairing damaged sections.
  - Funds provided by the Washington State Department of Transportation (WSDOT) and the Federal Emergency Management Agency (FEMA).

**Key Points**

- **Fall City Southeast**: Project involves the repair and improvement of Fall City Southeast levees and structures.
- **Fall City Commercial**: Project involves the repair and improvement of Fall City Commercial levees and structures.

**Additional Information**

- **Fall City Repairs**: Project includes the repair and improvement of Fall City levees and structures.
- **Funds**: Funds provided by WSDOT and FEMA.

**Contact Information**

- **WSDOT**: For more information, contact the WSDOT Customer Service Center at 1-800-452-9222.

---

**Summary**

- **Fall City Repairs**: Project involves the repair and improvement of Fall City levees and structures.
- **Funds**: Funds provided by WSDOT and FEMA.
- **Contact**: WSDOT Customer Service Center at 1-800-452-9222.

---

**Note**: The text is a summary of the project's details as of August 2021. For the most current information, please refer to the official project documentation.
is will is Rd l-405 facility. (Creeks) 10 bank in project nirconnect rap Project. the frequency Washington. conveyance also engineering sediment recent:

improvements. The ofthe be updated based on (2016-u4) authonzrng 3uyo desrgn ot analysis, and hydraulic analysis to idenify levee; excavale

these projects is now included in loelevate or acquire (Cabbage and Country 30yo design is complete in December 2018.

 repairing sediment deposilion, reducing sediment deposition, and reducing sediment loss properties from cadse.

the options: $530 facility. The proj

the levee, which is a result of climate change.

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<table>
<thead>
<tr>
<th>Project</th>
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<tr>
<td>Project 1</td>
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<tr>
<td>Project 2</td>
<td>Contractor A, Contractor B, Contractor C</td>
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<tr>
<td>Project 3</td>
<td>Contractor D, Contractor E, Contractor F</td>
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</table>

### Project 1
- **Scope:** Developing a sustainable energy plan for a large urban area.
- **Key Elements:**
  1. Solar panel installation
  2. Wind farm development
  3. Bioenergy facility construction

### Project 2
- **Scope:** Mitigation of coastal erosion and sea-level rise impacts.
- **Key Elements:**
  1. Beach nourishment
  2. Artificial reef installation
  3. Coastal dune restoration

### Project 3
- **Scope:** Establishing a green building certification program.
- **Key Elements:**
  1. Green building design guidelines
  2. Environmental impact assessment
  3. Sustainable materials sourcing

---

**Notes:**
- All projects are expected to be completed by the end of the fiscal year.
- Funding allocations will be reviewed annually to ensure optimal project progression.

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**References:**
- General Assembly, State of the State Address, January 15, 2020
- Department of Environmental Protection, Annual Report, 2019
- National Renewable Energy Laboratory, Advanced Energy Technology Assessment, 2021
New project to implement interim SWIF at RDC approved by Board of Supervisors. This is the first levee project to move through the feasibility analysis stage. The US Army Corps of Engineers has determined that preventing further damage from current and increasing flood risk of dam failure at the flood wall. The City of Federal Way, as the owner of the flood protection system, is responsible for the operation and maintenance of the flood protection system. The project will help to meet the City's long-term flood protection needs.

The project is designed to provide additional flood protection by raising the levee by 3 feet and adding a minimum of 3 feet freeboard. The project will also provide additional flood protection to adjacent businesses and properties, including the nearby Green River Valley.

The project includes the following components:

1. Raising the levee by 3 feet
2. Adding a minimum of 3 feet freeboard
3. Providing additional flood protection to adjacent businesses and properties
4. Meeting the City's long-term flood protection needs

The project is expected to be completed in 2023.

Cost:

- Total cost: $2,600,000
- Funding: $1,800,000 from the City of Federal Way, $800,000 from the State of Washington, and $0 from other sources.

The project is expected to provide significant flood protection benefits to the City of Federal Way and its residents.

For more information, please contact the project manager at (253) 692-5686.
TABLE 7: SUMMARY OF PROJECTS BY AGENCY—TOTAL COSTS FROM 2018-2023

<table>
<thead>
<tr>
<th>Agency</th>
<th>Description</th>
<th>Initial Cost</th>
<th>Total Cost</th>
<th>Yearly Cost</th>
<th>Project Duration</th>
<th>Status</th>
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</table>

Note: The table above provides a summary of projects by the City of Enumclaw from 2018 to 2023. The table includes the initial cost, total cost, yearly cost, project duration, and status of each project.