



# KING COUNTY

1200 King County Courthouse  
516 Third Avenue  
Seattle, WA 98104

## Signature Report

November 5, 2014

### FCD Resolution

**Proposed No.** FCD2014-14.3

**Sponsors**

1           A RESOLUTION relating to the operations and finances  
2           of the King County Flood Control Zone District; adopting  
3           the District's 2015 work program, budget, operating  
4           budget for King County, capital budget, six-year capital  
5           improvement program, oversight budget and opportunity  
6           fund project list, and authorizing improvements.

7           WHEREAS, the Advisory Committee of the King County Flood Control Zone  
8           District ("District") has reviewed and recommended the District's proposed 2015 work  
9           program, budget, operating budget for King County, capital budget, six-year capital  
10          improvement program, opportunity fund project list, and management budget; and

11          WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the  
12          proposed budget on November 3, 2014; and

13          WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("Board") has  
14          determined that the flood control improvements adopted by this resolution generally  
15          contribute to the objectives of the District's comprehensive plan of development; and

16          WHEREAS, the Board desires to adopt the District's 2015 work program, budget,  
17          operating budget for King County, capital budget, six-year capital improvement program,  
18          opportunity fund project list, and management budget; now, therefore

19 BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING  
20 COUNTY FLOOD CONTROL ZONE DISTRICT:

21 SECTION 1. The board of supervisors ("Board") adopts the 2015 work program  
22 for the King County Flood Control Zone District ("District"), consisting of the programs  
23 and activities set forth in Attachment A to this resolution, titled "2015 Work Program 10-  
24 24-14."

25 SECTION 2. The Board adopts the 2015 budget for the District, as set forth in  
26 Attachment B to this resolution, titled "2015 Annual Budget 11-3-14", provided that  
27 flood damage repairs to the toe area of WLFL8 Briscoe Levee Setback (Reach 1 at  
28 Desimone Levee) shall be extended to include 295 feet of toe reconstruction, designed  
29 and built by the United States Army Corps of Engineers ("USACE"), along the sheet  
30 flood wall project area in addition to the USACE cost-shared damage repair. This  
31 additional 295 foot reconstruction shall be at the District's expense unless external  
32 funding becomes available.

33 SECTION 3. A. The Board adopts the 2015 annual operating budget for the  
34 District, as set forth in Attachment C to this resolution, titled "2015 Annual Operating  
35 Budget 10-24-14".

36 B. The District's 2015 annual operating budget includes \$424,852 for flood  
37 hazard planning, grants, and outreach. WLRD has requested \$50,000 of this amount to be  
38 used for river recreation planning. The Board hereby directs that expenditures for  
39 recreation planning demonstrate a nexus to reducing risk and liability related to the  
40 District's flood protection infrastructure, particularly those levees and revetments  
41 scheduled for rehabilitation or repair in the District's adopted capital program. Planning

efforts should focus on reducing the potential for conflicts between District facilities and river users while also streamlining the design process for high priority public safety projects.

SECTION 4. A. The Board adopts the 2015 capital budget for the District, consisting of the projects and expenditures, including the subregional opportunity fund, as set forth in Attachment D to this resolution, titled "2015 Annual Capital Budget 10-27-14"; provided that flood damage repairs to the toe area of WLFL8 Briscoe Levee Setback (Reach 1 at Desimone Levee) shall be extended to include 295 feet of toe reconstruction, designed and built by the USACE, along the sheet flood wall project area in addition to the USACE cost-shared damage repair. This additional 295 foot reconstruction shall be at the District's expense unless external funding becomes available.

B. The District's 2015 capital budget includes funding for implementation of corridor projects by river basin. The board of supervisors hereby directs that, upon completion of a corridor plan, WLRD will review the capital projects recommended in the corridor plan and determine whether it has the staff resources to implement a new capital project in 2015. If WLRD does not have the staff resources to implement a new capital project in 2015, it must seek to partner financially and operationally with any city that has the appropriate expertise to implement capital projects. Such partnerships will focus on implementing capital projects that are identified in the corridor plan.

SECTION 5. The Board adopts the six-year capital improvement program for the District, as set forth in Attachment E to this resolution, titled "2015-2020 Six-Year CIP 11-3-14"; provided that prior to the expenditure of District funds on the project titled

65 "WLFL 8 Porter Levee ERES" that is in the Green River Basin category, the District and  
66 the affected property owner must enter into an easement agreement; and provided further  
67 that flood damage repairs to the toe area of WLFL8 Briscoe Levee Setback (Reach 1 at  
68 Desimone Levee) shall be extended to include 295 feet of toe reconstruction, designed  
69 and built by the USACE, along the sheet flood wall project area in addition to the  
70 USACE cost-shared damage repair. This additional 295 foot reconstruction shall be at the  
71 District's expense unless external funding becomes available.

72       SECTION 6. The Board adopts the 2015 oversight budget for the District, as set  
73 forth in Attachment F to this resolution, titled "2015 Annual District Oversight Budget  
74 11-3-14."

75       SECTION 7. The Board adopts the 2015 subregional opportunity fund project  
76 list, as set forth in Attachment G to this resolution, titled "2015 Subregional Opportunity  
77 Fund Allocations 10-24-14."

78       SECTION 8. In accordance with Section 3.5 of the interlocal agreement between  
79 the District and King County, King County shall notify the District executive director in  
80 writing if the county needs to modify or reprioritize capital projects. Section 5 of the  
81 interlocal agreement provides that if King County needs to amend the annual budget or  
82 work plan, King County should prepare an amendment for the Board's review and action  
83 by resolution. King County's notifications to the District should include information  
84 regarding variations within project budgets of more than twenty percent in the  
85 "acquisition," "design," "construction," "contingency," and "total" expenditure categories,  
86 as shown on Attachments C and D to this resolution.



87        SECTION 9. A. The Board authorizes the extension, enlargement, acquisition or  
88 construction of improvements, as applicable, as set forth in Attachments D and E of this  
89 resolution.

90        B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as  
91 amended, serves as the comprehensive plan of development for flood control and  
92 floodplain management, and has been prepared for the streams or watercourses upon  
93 which the improvements will be enlarged, extended, acquired, or constructed. The  
94 improvements authorized herein generally contribute to the objectives of the Flood Plan.

95        C. For improvements that are to be constructed, preliminary engineering studies  
96 and plans have been made, consisting of one or more of the following: the 2006 Flood  
97 Hazard Management Plan, as amended; preliminary feasibility analyses, conceptual  
98 designs and design manuals; and such plans and studies as are on file with the county  
99 engineer.

100

101           D. Estimated costs for acquisitions and improvements together with supporting  
102 data are set forth on Attachments D and E to this resolution.

103           E. The improvements set forth in Attachments D and E to this resolution are  
104 determined to benefit the county as a whole, as well as the zone.

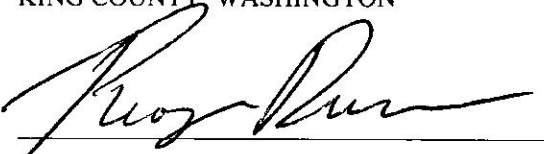
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106 SECTION 10. By April 30, 2015, WLRD shall submit to the District executive director  
107 a report that discusses and recommends to the District a fund balance reserve policy.  
108

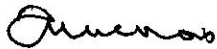
FCD Resolution was introduced on and passed as amended by the King County Flood Control District on 11/3/2014, by the following vote:

Yes: 9 - Mr. Phillips, Mr. von Reichbauer, Mr. Gossett, Ms. Hague,  
Ms. Lambert, Mr. Dunn, Mr. McDermott, Mr. Dembowski and Mr.  
Upthegrove  
No: 0  
Excused: 0

KING COUNTY FLOOD DISTRICT  
KING COUNTY, WASHINGTON

  
\_\_\_\_\_  
Reagan Dunn, Chair

ATTEST:

  
\_\_\_\_\_

Anne Noris, Clerk of the Board

**Attachments:** A. 2015 Work Program 10-24-14, B. 2015 Annual Budget 11-3-14, C. 2015 Annual Operating Budget 10-24-14, D. 2015 Annual Capital Budget 10-27-14, E. 2015-2020 Six-Year CIP 11-3-14, F. 2015 Annual District Oversight Budget 11-3-14, G. 2015 Subregional Opportunity Fund Allocations 10-24-14

## **King County Flood Control District 2015 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 interlocal agreement for services
  - Financial planning, budgeting, levy rate, bonding (if any)
  - Administration of contracts for services such as Advisory Committee facilitation
  - Asset management
  - Capital improvement priorities
  - Capital improvement project cost estimating, procurement, change orders, reporting
  - Expert/Peer review of basin plans, levee design
  - Public awareness priorities
  - Technical study scoping of emerging issues
    - Sediment removal
    - Woody-debris
    - Sandbags
    - Agricultural needs
  - Post flood event review and evaluation
  - Federal and state legislative agenda
  - Legal services, financial management, and Washington State audit
- Operations Work Program
  - Flood Preparedness, Regional Flood Warning Center, and Post Flood Recovery
  - Flood Hazard Assessments, Mapping, and Technical Studies
  - Planning, Grants, Mitigation, and Public Outreach
  - Flood Control District Implementation
  - Resource Management, Annual Maintenance, and Facility Monitoring
  - Management, Finance, Budget and General Administration
- Capital Improvement Program (CIP)
  - Capital Improvement Projects
  - Acquisitions and Elevations
  - Programmatic capital funding (Subregional Opportunity Fund, Cooperative Watershed Management Grants, Flood Reduction Grants)

## **Category 1:**

### **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.

**Changes from 2014:** Overall, the budget for this category is lower than 2014. The main reduction is in vegetation removal and mitigation costs on the Green for USACE PL 84-99 which have been reduced from the 2014 budgeted level. Vegetation management of the Sammamish Transition Zone will continue consistent with current agreements and subject to permitting and mitigation requirements.

Specific programmatic elements include:

#### **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.

**Category 2:**

**Flood Hazard Planning and 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.

**Changes from 2014:** Overall, this budget category is reduced compared to 2014. A new item for 2015 is an update to the District's All-Hazards Plan under the federal Disaster Mitigation Act. This federally approved plan enables the District to be eligible for FEMA grant funding. This planning document must be updated and approved by the Board of Supervisors and FEMA by the end of 2015. The budget includes \$50,000 for a consultant to complete a technical update to this plan using FEMA risk assessment tools (HAZUS-MH).

Specific programmatic elements include:

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.

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.
- Update the District's 2010 all-hazards plan to maintain eligibility for FEMA grants.

### 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.

WLRD shall transmit a grant overview report by June 30<sup>th</sup> of each year including information with a description of grants for which WLRD has applied and how the above priorities were taken into consideration.

### Category 3:

### Flood Hazard Assessments, Mapping, 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.

**Changes from 2014:** The 2015 budget for mapping includes channel migration mapping along several major river systems, The Flood District Board of Supervisors revised the 2014 budget to add technical analyses of landslide hazards that could intersect major river floodplains. The 2015 budget

continues this effort. King County plans to update landslide hazard maps in upland areas that do not intersect major river floodplains; this complementary effort has not been funded to date.

Specific programmatic elements include:

- 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.

#### **Category 4:**

#### **Flood Preparedness, Regional 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.

**Changes from 2014:** No changes to the work program from 2014. This budget assumes the same base level of participation in the Take Winter by Storm regional outreach effort. Planned expenditures for flood response activities are based on the January 2009 flood to be conservative; these funds are only spent if there is a flood event.

Specific programmatic elements include:

#### **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.

#### **Category 5:**

#### **Program Management and Supervision; Finance, Budget and General Administration**

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

#### **Changes from 2014:**

No changes to the work program from 2014.

Specific programmatic elements include:

#### 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, 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 and awards, per grant protocols.
- Work with Executive Committee and Executive Director to support the District's work with Advisory Committee.

### **Category 6:**

### **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.

**Changes from 2014:** No changes to the work program from 2014.

Specific programmatic elements include:

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.
- 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.
- Coordinate outreach to farmers and the King County Agriculture Commission to gather input on the unique needs of agriculture lands within flood hazard areas.

## **Category 7:**

### **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.

For 2015, the preliminary draft total overhead budget is \$2.529 million, an increase of approximately 1 percent from 2014 (\$2.502 million).

### **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.

# King County Flood Control District

## 2015 Annual Budget Attachment B

11-3-14

Operating Expenses					
Net Flood District Administration	434,047	628,256	576,906	644,213	
Maintenance and Operation	7,003,595	9,433,661	9,737,415	9,222,891	
Construction and Improvements	38,189,112	66,641,353	125,005,633	57,852,175	
Bond Retirement and Interest	\$0	\$0	\$0	\$0	
<b>Total</b>	<b>45,626,754</b>	<b>76,703,270</b>	<b>135,319,954</b>	<b>67,719,279</b>	
Projected Capital Reserves - Cash Fund Balance <sup>1</sup>	\$54,162,742	\$44,399,470	\$54,821,005	\$45,965,169	
Projected Capital Reserves - Budgetary Fund Balance <sup>2</sup>	(\$4,757,976)	(\$21,790,620)	(\$21,432,431)	(\$43,885,591)	

<sup>1</sup> The cash fund balance assumes an expenditure rate of 33% of the capital budget in 2014, informed by prior year actuals.

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

**2015 Annual Operating Budget  
Attachment C**

10-27-14

Annual Maintenance	\$1,433,266	\$2,367,254	\$2,417,254	\$2,132,048
Flood Hazards Plan, Grants, Outreach	\$716,864	\$405,008	\$405,008	\$424,852
Flood Hazard Studies, Maps, Technical Services	\$272,213	\$461,453	\$663,857	\$1,140,872
Flood Preparation, Flood Warning Center	\$632,067	\$706,032	\$706,032	\$463,000
Program Management, Supervision, Finance, Budget	\$844,585	\$767,430	\$818,780	\$791,390
Program Implementation	\$1,686,182	\$3,050,288	\$3,050,288	\$1,629,559
Overhead / Central Costs	\$1,418,417	\$1,676,196	\$1,676,196	\$2,641,170
<b>Total</b>	<b>\$7,003,595</b>	<b>\$9,433,661</b>	<b>\$9,737,415</b>	<b>\$9,222,891</b>



	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2
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# King County Flood Control District

## 2015 - 2020 Six-Year CIP

### Attachment E

11-3-14

Snoqualmie River Basin	\$7,379,412	\$18,841,735	\$9,236,644	\$13,120,832	\$17,320,273	\$8,452,704	\$7,482,735	\$18,706,661	\$74,319,849
Cedar River Basin	\$4,165,254	\$11,487,589	\$11,123,330	\$8,059,507	\$3,171,169	\$3,843,986	\$3,381,617	\$5,683,330	\$35,262,939
Green River Basin	\$18,335,740	\$38,162,285	\$18,642,586	\$17,817,309	\$5,365,600	\$2,752,563	\$981,721	\$3,695,002	\$49,254,781
White River Basin	\$4,868,143	\$7,903,273	\$4,770,658	\$6,782,487	\$1,902,653	\$6,310,642	\$8,007,685	\$123,881	\$27,898,006
Seattle Projects	\$19,067,271	\$21,180,434	\$1,190,575	\$2,000,000	\$1,809,425	\$0	\$0	\$0	\$5,000,000
Effectiveness Monitoring	\$498,046	\$1,114,839	(\$127,348)	\$635,408	\$898,945	\$542,472	\$422,823	\$386,497	\$2,758,797
Countywide Corridor Plan Implementation	\$0	\$0	\$71,305	\$2,489,775	\$2,452,537	\$11,213,074	\$9,430,286	\$2,010,077	\$27,667,054
Countywide Miscellaneous	\$357,008	\$615,192	\$334,330	\$429,300	\$434,678	\$440,219	\$445,925	\$435,086	\$2,519,538
Subregional Opportunity Fund	\$5,280,476	\$13,338,389	\$5,499,189	\$5,549,104	\$5,673,172	\$5,796,748	\$5,920,059	\$6,044,608	\$34,482,880
Grant Fund	\$2,666,329	\$2,666,329	\$2,883,634	\$2,970,143	\$3,059,247	\$3,151,025	\$3,245,555	\$3,342,922	\$18,652,526
WRIA Grant Funding	\$4,023,674	\$9,685,568	\$4,227,272	\$4,354,089	\$4,484,712	\$4,619,253	\$4,757,831	\$4,900,565	\$27,343,722
Total	\$66,641,353	\$125,005,633	\$57,852,175	\$64,207,954	\$46,572,411	\$47,122,686	\$44,076,237	\$45,328,629	\$305,160,092

# King County Flood Control District

## 2015 Annual District Oversight Budget

### Attachment F

11-3-14

	2014 Adopted	2014 Revised	2015 Proposed
Management & Support	\$265,225	\$265,225	\$273,182
Rent and Equipment	\$10,609	\$10,609	\$10,927
Legal Services	\$86,994	\$86,994	\$89,604
Accounting	\$80,000	\$80,000	\$82,400
State Auditor	\$15,914	\$15,914	\$16,391
Other Professional Services	\$76,350	\$25,000	\$75,750
Expenses	\$15,914	\$15,914	\$16,391
Insurance	\$77,250	\$77,250	\$79,568
<b>Total</b>	<b>\$628,256</b>	<b>\$576,906</b>	<b>\$644,213</b>

# King County Flood Control District

## 2015 Subregional Opportunity Fund Allocations

### Attachment G

10-24-14

Jurisdiction	Opportunity Fund Allocation	Project Name	Project Description
Algona	\$10,000	DEFERRING	DEFERRING
Auburn	\$92,995	DEFERRING	DEFERRING
Beaux Arts	\$10,000	DEFERRING	The city requests amending the following 2014 project: Construction of an enlarged culvert at NE 21st Street and Valley Creek along with in-channel improvements to alleviate structural flooding of nearby businesses and roads. In addition to constructing the new culvert the private property downstream of the culvert will be purchased so that the in-channel improvements can be built. Specifically:
Bellevue	\$570,775		<ul style="list-style-type: none"> <li>• Postponement of the culvert construction at NE 21st Street and Valley Creek until 2016</li> <li>• Adds a maintenance easement on property located between NE 21st Street and NE 20th Street, 14070 NE 20th Street in 2015</li> <li>• Design for a replacement culvert at NE 20th Street in 2017</li> <li>• Adds \$658,554 to the project budget</li> </ul>
		Valley Creek / NE 21 <sup>st</sup> Street Flood Control	
Black Diamond	\$10,000	DEFERRING	DEFERRING
Bothell	\$54,985	DEFERRING	DEFERRING
Burien	\$65,669	Flow Control for localized flooding in Burien	Hydrologic & Hydraulic analysis of the sub-basin that suffers from localized flooding. The study will also include design of a new retention/detention system.
Carnation	\$10,000	City of Carnation Stormwater Facility Inventory	Conduct an inventory of existing stormwater facilities that are located within city rights-of-way to support better maintenance of these facilities, thereby reducing flooding that occurs during storm events.
Clyde Hill	\$27,297	Miscellaneous Project Retrofits	This is a continuation of an ongoing project started in 2014.
Covington	\$26,349	Timberlane/Jenkins Park Stormwater Retrofit Project	This project will renew and repair pipes that are part of the stormwater system flowing Lake Washington. The project includes the replacement or repair of damaged stormwater pipes that have required costly maintenance operations in order to keep stormwater flowing properly. Deficiencies include root intrusion, cracks and holes that affect capacity. Repairs include new liner or replace pipes primarily in areas prone to flooding properties due to plugged lines and pipe failures. This project was recognized in the Clyde Hill Storm Water Management Plan (November 1992) that recommends ongoing replacement of pipes with root intrusion and defects.
Des Moines	\$36,501	Lower Massey Creek Channel Modification Project	Flood reduction by widening 400 feet of channel. Construction of a 200 foot sheet pile wall, construction of a 180 foot long earthen berm, and installation of a pump station.
Duvall	\$12,909	Parkwood Pond Retrofit	This project will retrofit an existing pond by adding storage and water quality components. The retrofit will require a full reconstruction of the facility and addition of bio-filtration swales to improve water quality at the pond outlet.
Enumclaw	\$14,887	DEFERRING	DEFERRING
Federal Way	\$117,856	DEFERRING	DEFERRING
Hunts Point	\$12,925	Comprehensive Stormwater Management Plan	Develop a Comprehensive Stormwater Management Plan to identify priority capital improvement projects related to stormwater infrastructure.
Issaquah	\$99,401	NW Dogwood Street Bridge Replacement	The City of Issaquah proposes to replace the 26-foot-wide by 70-foot-long NW Dogwood Street Bridge with a new 48-foot-wide by 95-foot-long bridge. The existing bridge is structurally deficient and functionally obsolete. It is also creates a significant blockage to floodwaters during major floods, causing upstream flood damage and closure of the roadway.
Kenmore	\$45,650	DEFERRING	The Upper Mill Creek dam is a critical stormwater flood storage facility located on the east hill of Kent. The stormwater facility provides approximately 90-acre-feet of flood storage to protect downstream areas in the Kent Valley from flooding. Improvements to the site include modifications to the dam's outlet pipes and spillway to meet standards, and raising the height of the dam by 5.5-feet to provide 50-acre-feet of additional flood storage within the dam's reservoir.
Kent	\$189,028	Upper Mill Creek Dam Improvements	

Jurisdiction	Opportunity Fund Allocation	Project Name	Project Description
King County	\$507,360	<ul style="list-style-type: none"> <li>Fairwood Park Division 4 Stormwater Improvement (Pipe Repair)</li> <li>Fairwood Park Division 11 Pipe Repair (DR0516 and D91355)</li> </ul>	<p>Fairwood Park Division 4 Stormwater Improvement (Pipe Repair): The King County Stormwater Services (SWS) Section proposes to repair a 100 foot pipe segment of a 1470 foot conveyance system through which Molasses Creek flows. The pipe segment is severely deteriorated and deformed. The pipe segment is 17 feet deep and composed of corrugated metal pipe (cmp).</p> <p>Fairwood Park Division 11 Pipe Repair (DR0516 and D91355): The King County Stormwater Services (SWS) Section proposes to modify regional stormwater facility DR0516 and detention facility D91355 as a result of a rusted out pipe segment of DR0516. The pipe is composed of corrugated metal pipe (cmp) that has exceeded its lifespan.</p>
Kirkland	\$256,930	<ul style="list-style-type: none"> <li>Juanita Creek Inundation Mapping</li> <li>NE 129th Place/Juanita Creek Rockery Replacement</li> </ul>	<p>Juanita Creek Inundation Mapping: Develop map of areas inundated by the 25, 50, and 100-year flood events for the Juanita Creek System. Map will be used to assist residents in preparing for flooding, in regulating development adjacent to the creek, and in identifying areas where flood storage could be increased.</p> <p>NE 129th Place/Juanita Creek Rockery Replacement: This Project will replace a failing Juanita Creek, stream bank rockery that protects the NE 129th Place street embankment from scouring and slope destabilization during flood events. This rockery has repeatedly failed during periods of moderate flooding. The rockery will be replaced with an engineered retaining wall designed to support the embankment and resist damage from flooding.</p>
Lake Forest Park	\$31,924	DEFERRING	DEFERRING
Maple Valley	\$38,119	DEFERRING	Install an outlet control device in the upper pond and excavate both ponds by remove organic sediment to increase stormwater runoff storage volume to minimize downstream flooding while improving the ponds water quality.
Medina	\$45,204	Medina Park Stormwater Pond Improvements	DEFERRING
Mercer Island	\$145,843	DEFERRING	DEFERRING
Milton	\$10,000	DEFERRING	DEFERRING
Newcastle	\$31,911	DEFERRING	Phase 3 Storm water Management Control Program Asset Management will fund an additional 6 months of work to:
Normandy Park	\$17,638	DEFERRING	<ul style="list-style-type: none"> <li>Identify stormwater conveyance system, System Inspection facilities</li> <li>Map existing conditions into GIS data base</li> <li>Identify operation &amp; maintenance needs</li> <li>Identify capital improvement needs</li> <li>Complete reports</li> <li>Develop/prioritize operation and maintenance needs</li> <li>Develop a preliminary prioritization of capital improvement needs for the total stormwater conveyance system</li> </ul>
North Bend	\$13,337	Ribary Creek Flooding Mitigation, Phase 1	Enlarge and restore approximately 1,700 lineal feet of stream channel on Ribary Creek. The south portion of this project is in the City's 2013 Stormwater Comp. Plan. The north portion of this project floods every few years with approximately one foot of water across a state highway as well as parking lots of adjacent businesses. This request will fund a feasibility study and preliminary engineering.
Pacific	\$10,000	DEFERRING	DEFERRING
Redmond	\$201,802	159th Avenue Tosh Watershed Flow Control	Replace an underperforming stormwater vault (-0.1 Ac-Ft) with a larger facility (-2 Ac-Ft) to control flows in Tosh Creek in Redmond.
Renton	\$172,274	Lower Cedar River Levee Recertification	Proposes to amend its 2014 project: The City of Renton is the local sponsor for the Army Corps of Engineers Lower Cedar River Section 205 Flood Hazard Reduction Project and seeks accreditation of flood zones for the purposes of flood insurance. The City will prepare the re-certification documentation and data required by federal regulations. The City wishes to amend the 2014 Scope of Work in order to increase the SROF share of this project by adding the 2015 allocation to the 2014 allocation.
Sammamish	\$153,495	DEFERRING	DEFERRING
SeaTac	\$38,025	24th Ave Storm System Replacement	Replace the failing portions of the City's stormwater system (12" corrugated metal pipe) in 24th Ave South between S 142 Street and S 154th Street.

Jurisdiction	Opportunity Fund Allocation	Project Name	Project Description
Seattle	\$2,056,088	<p>Lifton Springs Flood Reduction Project</p> <p>This project will significantly reduce localized flooding near Lifton Springs Park in the vicinity of Woodlawn Ave N between N 95th St and N 92nd St) by removing a bottleneck in the drainage system. The improvements consist of (1) inlet modifications to increase capacity and reduce the frequency of clogging and (2) adding capacity to the drainage system along Woodlawn Ave N between N 95th St and N 92nd St.</p> <p>Lower Taylor Creek Restoration Project</p> <p>Proposed project will restore stream and shoreline habitat, provide adequate fish passage, increase stream capacity, and address localized flooding. This phase of the project will include: 1) An options Analysis, 2)examination of sediment deposition at the creek, 3) evaluate options for a creating publicly accessible open park space in an area where public access to the shoreline is limited.</p> <p>Lifton Springs Flood Reduction Project</p> <ul style="list-style-type: none"> <li>• Lifton Springs Flood Reduction Project</li> <li>• Lower Taylor Creek Restoration Project</li> <li>• 14th &amp; Concord CSS Improvements SROF</li> </ul>	<p>Lifton Springs Flood Reduction Project</p> <p>This project will significantly reduce localized flooding near Lifton Springs Park in the vicinity of Woodlawn Ave N between N 95th St and N 92nd St) by removing a bottleneck in the drainage system. The improvements consist of (1) inlet modifications to increase capacity and reduce the frequency of clogging and (2) adding capacity to the drainage system along Woodlawn Ave N between N 95th St and N 92nd St.</p> <p>Lower Taylor Creek Restoration Project</p> <p>Proposed project will restore stream and shoreline habitat, provide adequate fish passage, increase stream capacity, and address localized flooding. This phase of the project will include: 1) An options Analysis, 2)examination of sediment deposition at the creek, 3) evaluate options for a creating publicly accessible open park space in an area where public access to the shoreline is limited.</p> <p>14th &amp; Concord CSS Improvements SROF</p> <p>Description of 2013 project: The Combined Sewer System is under capacity to manage stormwater runoff in the South Park Neighborhood near 14th Ave S and S Concord St, resulting in repeated flooding of street right-of-way and private properties. Excess stormwater also causes repeat sewer backups. This project will design and construct drainage and wastewater system conveyance and add storage improvements to reduce surface flooding and stormwater-related sewer backups.</p> <p>The FY 2015 request amends this project by an additional \$400,000, thus increasing the FD funding share for this project.</p>
Shoreline	\$106,814	2015 Stormwater Pipe Repair and Replacement	The Stormwater Pipe Repair and Replacement Program is a multi-year program to repair and replace failing stormwater pipes as identified via video condition assessments conducted in association with basin planning.
Skykomish	\$10,000	DEFERRING	DEFERRING
Snoqualmie	\$27,609	DEFERRING	DEFERRING
Tukwila	\$63,673	Phase 1 - Tukwila 205 Levee Certification	Hire a consultant to perform Phase 1 of a certification study for the Tukwila 205 Levee System.
Woodinville	\$40,188	DEFERRING	DEFERRING
Yarrow Point	\$13,720	NE 42nd Street Storm Drainage Improvements	Upsize 135LF of stormwater pipe from 12" to 24"
<b>City Totals</b>	<b>\$1,397,171</b>		
Deferrals	\$809,822		
Projects	\$4,589,369		