

Application of the District's Integrated Floodplain Management Motion on Capital Projects

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Lorin Reinelt, Managing Engineer

Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Service Provider to the King County Flood Control District



Integrated Floodplain Management (Multi-Benefit)

Motion (FCD 20-07.1) passed on 11/4/2020

“A MOTION declaring the KC FCD’s commitment to integrated floodplain management and multi-benefit projects”

1. Equity and social justice
2. Environmental justice
3. Habitat protection and salmon recovery
4. Resilient communities and ecosystems
5. Productive and viable agriculture
6. Sustainable development
7. Jobs and sustainable livelihoods
8. Open space conservation
9. Sustainable and clean water
10. Recreation/other opportunities to connect people with nature

Multi-Benefit Motion (FCD 20-07.1) passed on 11/4/2020

Section 2. The District will prioritize the design and implementation of multi-benefit floodplain management projects that reduce flood risks, ensure public safety and restore river ecosystems in an equitable and just manner, while also advancing the inter-related interests of the community.

Multi-Benefit Motion (FCD 20-07.1) passed on 11/4/2020

Section 3. The District will align its work with King County policies including, but not limited to:

- A. The King County Flood Hazard Management Plan
- B. The Equity and Social Justice Strategic Action Plan
- C. The King County Strategic Climate Action Plan
- D. The King County Comprehensive Plan
- E. The Regional Hazard Mitigation Plan; and
- F. The King County Shoreline Master Program.

Multi-Benefit Motion (FCD 20-07.1) passed on 11/4/2020

Section 4. The District will seek to find alignment with the other environmental stewardship initiatives such as:

- A. The King County Clean Water Healthy Habitat Plan
- B. The King County Land Conservation Initiative
- C. Salmon Habitat Recovery Plans in King County Watersheds

How Integrated is our Floodplain Management?

| | | | | |
|---|---|---|--|--|
|  SHARED VISION <ul style="list-style-type: none"> + No shared vision or very general shared vision ++ Multi-interest shared vision not yet tightly linked to actions +++ Multi-interest shared vision directly linked to actions |  GOALS <ul style="list-style-type: none"> + Some interests have clearly articulated needs and goals, others may not ++ All interests have needs and goals that are known by other interests +++ All interests have needs and goals that are integrated and actively shared |  INSTITUTIONAL STRUCTURES <ul style="list-style-type: none"> + Collaborative efforts are unstructured and ad-hoc ++ Efforts are staffed, structures are clear, and decision-making is defined +++ Collaboration is institutionalized with organizational support |  COLLABORATION <ul style="list-style-type: none"> + Collaboration may result in mutual support for individual actions ++ Mutual support for actions coordinated on the landscape +++ Multi-benefit and individual interest actions coordinated on landscape |  PARTICIPANTS <ul style="list-style-type: none"> + Actions are defined by one or two agencies with multiple interests in mind ++ A variety of stakeholders are at the table and participating +++ All people affected by the decision are participating |
|  TECHNICAL STUDIES <ul style="list-style-type: none"> + No understanding of the river system dynamics ++ Technical studies have been done but don't yet lead to integrated and prioritized actions +++ Technical studies have led to integrated actions and sequencing |  ACTIONS <ul style="list-style-type: none"> + Package of site-specific individual interest actions; may or may not conflict ++ Package of individual interest actions that don't conflict +++ Package of single interest and multi-benefit actions that don't conflict |  SCALE <ul style="list-style-type: none"> + Actions are coordinated at the site-scale only, at one or more discrete sites ++ Actions are coordinated at a large-site or small-reach scale +++ Actions are coordinated at a reach or watershed scale |  CLIMATE IMPACTS <ul style="list-style-type: none"> + Watershed-specific climate impacts are not understood or addressed ++ Climate impacts may be addressed in individual project designs +++ Climate projections addressed through location, sequence, and design of durable projects |  MEASURING SUCCESS <ul style="list-style-type: none"> + No tracking in place to assess change over time ++ Limited ability to measure success within certain interests, actions, or reaches +++ Sophisticated ability to measure success across landscape |

Source: *Comprehensive Planning for Flood Hazard Management* (Department of Ecology, 2021)

How Integrated is our Floodplain Management?

1. Goals: +++ All interests have needs and goals that are integrated and actively shared
2. Collaboration: +++ Multi-benefit and individual interest actions coordinated on landscape
3. Technical Studies: +++ Technical studies have led to integrated actions and sequencing
4. Actions: +++ Package of single interest and multi-benefit actions that don't conflict

How are we applying integrated floodplain management approach in identification and design of FCD capital projects?

1. Upcoming Capital Investment Strategies (CIS), including Issaquah Creek CIS
2. Reprioritization of the Cedar River CIS following February 2020 flood damages
3. Inclusion in new capital projects at initiation (e.g., charter, project management plan, alternatives analysis)
4. Integrated floodplain management is also a focus of the current Flood Plan update (county led)

Issaquah Capital Investment Strategy (CIS)

1. Focuses on 100-year floodplain, 41 existing flood facilities (10 river miles)
2. Supports consideration of capital projects in larger floodplain context
3. CIS includes:
 - Flood facility condition assessment; hazard, risk and vulnerability analysis
 - Recommends project actions based on urgency, severity, consequence, responsibility or authority, and potential to achieve *multiple benefits*
4. Recommended actions will be prioritized and may include consideration of multiple benefits, where applicable:
 - a) *Equity and environmental justice*
 - b) *Habitat enhancement and salmon recovery*
 - c) *Land use, including agriculture, recreation and open space*
 - d) *Development and sustainable livelihoods; and*
 - e) *Storm and surface water quality*
5. Cost range (\$700K-\$1.3M); 2-3 year effort

Cedar River CIS Reprioritization (see Section 8)

Section 8 says “the District will develop a process to reevaluate and reprioritize within CISs as necessary to prioritize multi-benefit projects, beginning with the Cedar CIS.

Current Efforts Underway on Cedar CIS:

1. Reviewed definitions and objectives of multi-benefit categories from Green River effort
2. Updating erosion and risk ratings from original 2017 CIS and combining with new multi-benefit criteria (applicable to Cedar)
3. Defining clear objectives, metrics and evaluation criteria for each multi-benefit element

Cedar River CIS Reprioritization (cont'd)

Next Steps:

1. Present proposed multi-benefit matrix to FCD for review and input (Q3)
2. Apply multi-benefit and original criteria to 2017 CIS project list and 2020 damage sites (Q4)
3. Re-prioritize the Cedar River CIS list of projects and adjust implementation schedule

Inclusion of Multi-Benefit in New Capital Projects

A key to successful multi-benefit projects is identifying and considering opportunities as early in project development as possible

Project Charter

- Include integrated floodplain management in *scope development*.
- Identify multi-benefit elements that are applicable in *project charter*.
- Example objective from Belmondo charter:
“The project is subject to the Integrated Floodplain Management policy; alternatives will identify opportunities to support multiple floodplain benefits.”

Project Management Plan

- Further definition of multi-benefit elements in preliminary design phase and in evaluation of *alternatives*.
- Outreach and Communication Plan – community engagement and tribal consultation



Lorin Reinelt

Managing Engineer

River and Floodplain Management Section

Lorin.Reinelt@kingcounty.gov

206-477-4808

kingcounty.gov/rivers

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