



July 15, 2015

**TO:** Flood Authority Members  
**FROM:** Scott Boettcher, Staff  
**SUBJECT:** Prioritized Local Priority Flood Protection Projects

The purpose of this memo is to make recommendation to the Flood Authority regarding (1) 2015-17 funding for prioritized local priority flood protection projects and (2) a new proposed Flood Authority policy regarding requiring local project feasibility analyses. These recommendations will be discussed further at our 7/16/2015 Flood Authority meeting. Please feel free to call or email if you have questions (i.e., 360/480-6600, [scottb@sbg-h-partners.com](mailto:scottb@sbg-h-partners.com)).

**1. 2015-17 Funding for Prioritized Local Priority Flood Protection Projects.**

2015-17 State Capital Budget has been signed into law by Governor Inslee and provides \$23.2M for "construction of local priority flood protection and habitat restoration projects." See section 1074 here <http://lawfilesexternal.wa.gov/biennium/2015-16/Pdf/Bills/House%20Passed%20Legislature/1115.PL.pdf>.

The Governor's Chehalis Basin Work Group in November 2014 recommended a biennial budget of \$26M for early action projects. They recommended \$12 million of the \$26M be used for small capital projects to reduce flood damage and \$500K for the construction of additional farm pads. In addition, they recommended \$5M for flood proofing. The approved budget of \$23.2M must also include \$232K for contract administration by the Washington State Recreation and Conservation Office (RCO). This leaves a total of \$22.968M which is an 8.8% reduction from the original budget recommended by the Governor's Chehalis Basin Work Group. See Table 1 below.

The Flood Authority's Projects Committee has been tasked with soliciting and reviewing local project funding requests, working with local project sponsors to refine and update those requests (scopes of work), and preparing prioritized recommendations for 2015-17 State Capital Budget funding.

The Projects Committee has prepared an updated listing of prioritized local priority flood protection projects for the Flood Authority's consideration (see Attachment A). This updated listing:

- a. Endorses the Executive Committee's recommendation that the Mill Creek Dam and Wishkah Road projects conduct local project feasibility analyses (see [https://www.ezview.wa.gov/Portals/\\_1492/images/Executive%20Committee%20Request%2007082015.pdf](https://www.ezview.wa.gov/Portals/_1492/images/Executive%20Committee%20Request%2007082015.pdf)) and extends the recommendation to several other local projects.
- b. Refines and updates the original prioritized listing of proposed local projects prepared by the Projects Committee and approved by the Flood Authority in October 2014 (see [https://www.ezview.wa.gov/Portals/\\_1492/images/2015-17%20Small%20Projects%20--%2010152014\(2\)\(2\).pdf](https://www.ezview.wa.gov/Portals/_1492/images/2015-17%20Small%20Projects%20--%2010152014(2)(2).pdf)). Refinements and updates include:
  1. Factors in \$900,000 of unspent 2013-15 biennial funds.



2. Moves projects with potentially significant WSDOT linkages to a separate funding bucket for further evaluation and consideration (with WSDOT and stakeholders). **Note** – Projects Committee will work with WSDOT and others to coordinate, stage and structure local projects with significant WSDOT linkages, and will update its work plan accordingly.
3. Updates previous scopes of work and 2015-17 funding requests (based on 5/29/2015 and 6/08/2015 requests by the Projects Committee).

**Note** – Current list retains previous small projects prioritized order approved by the Flood Authority in October 2014 and recommended to the Governor’s Work Group.

c. Tracks with Table 1.

**Table 1**  
**2015-17 Funding Comparisons and Project Committee’s Recommended 2015-17 Allocations**

	Governor's Work Group	Governor's Budget	Approved 2015-17 Budget	Project Committee Recommendation
RCO Contract Support (1%)			\$232,000	\$232,000
Local Projects	\$12,000,000	\$6,000,000	<b>\$22,968,000</b>	\$15,211,900
Flood Proofing	\$5,000,000	\$1,000,000		<b>???</b>
Habitat Restoration	\$8,500,000	\$2,500,000		\$7,256,100
Farm Pads	\$500,000	\$500,000		\$500,000
<b>2015-17 Sub-Total --&gt;</b>	<b>\$26,000,000</b>	<b>\$10,000,000</b>		<b>\$23,200,000</b>
Total funds available for all early actions as originated by Governor’s Work Group (local projects, flood proofing, habitat restoration, and farm pads).				
An aggregate flood proofing figure for the Basin is pending completion of the three local area analysis pilots. Future flood proofing funding could come from any: <ul style="list-style-type: none"> <li>• Additional unspent 2013-15 funds determined through 2013-15 biennium close-out.</li> <li>• 2015-17 small project cost savings.</li> <li>• Unallocated 2015-17 funds.</li> <li>• Other supplemental appropriations.</li> </ul>				

**Recommendation**

Project Committee recommends the Flood Authority adopt Attachment A (Prioritized Local Priority Flood Protection Projects) and Table 1 (2015-17 Funding Comparisons and Project Committee’s Recommended 2015-17 Allocations) as the Flood Authority’s recommendation to the Governor’s Work Group for local projects to be funded with 2015-17 state capital budget appropriations.



## 2. New Proposed Flood Authority Policy Regarding Requiring Local Project Feasibility Analyses.

The Flood Authority's Executive Committee met 7/07/2015 and asked that the Projects Committee consider the following recommendation: "For all new projects, a feasibility analysis should be funded in the initial stages of project design to ensure the desired benefits can be achieved."

See [https://www.ezview.wa.gov/Portals/\\_1492/images/Executive%20Committee%20Request%2007082015.pdf](https://www.ezview.wa.gov/Portals/_1492/images/Executive%20Committee%20Request%2007082015.pdf).

The Projects Committee met 7/09/2015 and discussed the Executive Committee's recommendation. Projects Committee members agreed with the recommendation in general, but made the following refinements in an attempt to better operationalize and implement the recommendation as well position it to be a potential new additional Flood Authority policy<sup>1</sup>:

**Local Project Feasibility Analysis.** A documented determination developed by the local project sponsor, and approved by the local project sponsor's legislative body, that the proposed project:

- a. Will achieve stated flood hazard reduction objective(s).
- b. Will not have unintended adverse residual effects.
- c. Can be completed in the funding biennium or, if a multi-phased project, the phase being funded can be completed in the biennium.
- d. Does not have equally viable, and potentially less costly, alternatives.

*A local project feasibility analysis typically leads up to, and is a precursor for, project design.*

*Local project funding requests in excess of \$500,000 must complete a local project feasibility analysis as described. All other local project funding requests are encouraged to complete a local project feasibility analyses.*

*The cost of preparing and completing local project feasibility analyses is an expense eligible for State Capital Budget funding as approved by the Flood Authority.*

### **Recommendation**

Project Committee recommends the Flood Authority adopt the above local project feasibility analysis statement as an additional new Flood Authority policy and direct staff to proceed with implementation as may be required (e.g., make any further refinements/adjustments as directed by Flood Authority; add statement as a new policy to existing Flood Authority policies on the web; notify local project sponsors of new requirement; etc.).

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<sup>1</sup> Existing Flood Authority policies can be found here along with other governing documents --

[https://www.ezview.wa.gov/site/alias\\_1492/administration\\_policies\\_procedures\\_workplans/35645/policies\\_procedures\\_workplans.aspx](https://www.ezview.wa.gov/site/alias_1492/administration_policies_procedures_workplans/35645/policies_procedures_workplans.aspx).

## Prioritized Local Priority Flood Protection Projects

PHASE I -- Early Actions To Implement Now								
Type	Jurisdiction	Project	2015-17 Request	Running Tally	Fully Expend	Cost, Benefit	Project Notes	Project Committee Notes Re Funding
OFM (7/09/2015) -- Unspent/Unobligated 2013-15 \$\$ --> \$ (900,000)								
1. Flood Protection	Aberdeen	<a href="#">Northside Levee</a>	\$ 2,700,000	\$ 1,800,000	y	y	* Protects 500+ homes/properties. * Flood insurance savings (\$500K -\$1M a year). * \$800K authorized at 9/18/2014 FA mtg.	Aberdeen must produce: * Local project feasibility analysis <sup>1</sup> . * Project spending plan with regular updates.
	Bucoda	<a href="#">Main Street Regrade</a>	\$ 3,100,000	\$ 4,900,000	y	y	* HDR = \$3M-\$3.1M. * 25% of town (south of 11th Street) isolated from emergency services.	Bucoda must produce: * Local project feasibility analysis <sup>1</sup> . * Project spending plan with regular updates.
	Cosmopolis	<a href="#">Mill Creek Dam</a>	\$ 3,082,000	\$ 7,982,000	y	y	* Donated \$1,512,250. * Protects 130 homes in Cosmopolis, 90 homes in South Aberdeen, two significant businesses (Western Peterbilt, D4 Sports), Grays Harbor County Road Maintenance Shop.	Cosmopolis must produce: * Local project feasibility analysis <sup>1</sup> . * Project spending plan with regular updates.  Consider for Phase IIA funding following feasibility analysis.
2. Multi-Benefit	Centralia	<a href="#">China Creek Phase I Construction</a>	\$ 900,000	\$ 8,882,000	y	y	* Reduces flooding to downtown businesses, improves emergency access and response times. * Incorporates natural stream channels and water storage features. * Slows down, stores upper watershed runoff.	Centralia must produce: * Local project feasibility analysis <sup>1</sup> . * Project spending plan with regular updates.

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	WSCC	<a href="#">Farm Pads, Evacuation Routes</a>	\$ 500,000	\$ 9,382,000	y	y	* Protects livestock, equipment and other farm supplies and products from flooding. * Continues successful program having already assisted ~20 farm families around Basin.	Scott to confirm potentially interested Thurston County farms.
3. Infrastructure	Chehalis	<a href="#">Airport Pump</a>	\$ 716,000	\$ 10,098,000	y	y	* Replaces existing aging pump station.	Chehalis must produce local project feasibility analysis <sup>1</sup> .
	Boistfort Valley Water District	<a href="#">Pre-Sedimentation Pond</a>	\$ 289,000	\$ 10,387,000	y	y	* Ensures continuity of water supply post-emergency event.	
	Elma	<a href="#">WWTP Outfall Stabilization Project</a>	\$ 367,900	\$ 10,754,900	y	y	* Existing outfall undermined from past flooding, erosion. * Project repairs and armors outfall structure. * Protect downstream communities.	
4. Study	Napavine	<a href="#">Kirkland Road Flooding Study</a>	\$ 40,000	\$ 10,794,900	y	y	* HDR = \$40K. * Reduce flood damage to businesses, homes along Kirkland Road from Newaukum River flooding. * Improve emergency response in area of Kirkland Rd, Rush Rd and I-5 interchange.	Napavine should cover the elements of a local project feasibility analysis as part of its Kirkland Road Flooding Study.

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	Montesano	<a href="#">WWTP Wynoochee River Bank Protection (Design Study)</a>	\$ 137,000	\$ 10,931,900	y	y	<ul style="list-style-type: none"> <li>* Design costs = \$137K (Parametrix).</li> <li>* Total costs = \$1,320,000 (Parametrix).</li> <li>* Protect WWTP from Wynoochee river erosion.</li> <li>* Protects downstream communities.</li> <li>* Rock groins intended to deflect river energy.</li> </ul>	Montesano should cover the elements of a local project feasibility analysis as part of its Wynoochee River Bank Protection Design Study.
5. Cost/Benefit Concerns	GHC	<a href="#">Wishkah Road Floodwall Project</a>	\$ 4,780,000	\$ 15,711,900	d/k	d/k	<ul style="list-style-type: none"> <li>* Donated \$1,952,000.</li> <li>* Reduces flooding on Wishkah Road between milepost 2.2 and 2.7.</li> <li>* Enables road to remain open to emergency vehicles during high-water events (benefiting ~200 homes).</li> <li>* Frequency and duration of roadway impassability is low (anecdotally), and would need to be modelled to have greater confidence in understanding.</li> <li>* Note: A separate overlay, roadway low spot filling project is estimated at \$650,000.</li> </ul>	<p>Grays Harbor County must produce:</p> <ul style="list-style-type: none"> <li>* Local project feasibility analysis<sup>1</sup>.</li> <li>* Project spending plan with regular updates.</li> </ul> <p>Consider for Phase IIA funding following feasibility analysis.</p>
			\$ 16,611,900	\$ 15,711,900				
			2015-17 Funding Need -->					
				\$ 15,711,900				

## Prioritized Local Priority Flood Protection Projects

PHASE II -- Other Actions To Implement In Closer Coordination with WSDOT								
Type	Jurisdiction	Project	2015-17 Request	Running Tally	Fully Expend	Cost, Benefit	Project Notes	Project Committee Notes Re Funding
6. WSDOT Linkage	Chehalis	<a href="#">Dillenbaugh Creek Realignment</a>	\$ 500,000	\$ 500,000	y	y	* HDR = \$9.6M-\$10.8M. * Project is to divert Dillenbaugh and Newaukum flood flows away from southwest Chehalis and I-5 to protect ~74 residential structures and 13 businesses.	WSDOT should produce: * Local project feasibility analysis <sup>1</sup> . * Project spending plan with regular updates.
	Chehalis	<a href="#">Raise Airport Levee</a>	\$ 2,800,000	\$ 3,300,000	d/k	d/k	* Phase II would further protect airport, commercial areas to the east. * Tied to WSDOT I-5 protection projects.	WSDOT should produce: * Local project feasibility analysis <sup>1</sup> . * Project spending plan with regular updates.
			\$ 3,300,000	\$ 3,300,000				
			<b>2015-17 Funding Need --&gt;</b>		<b>\$ 3,300,000</b>			

Map of Proposed Projects: <https://mapsengine.google.com/map/viewer?mid=z33VOynYGAcw.kKZZEVZorhWw>

2015-17 (\$23.2M) [Sec. 1074]: <http://lawfilesexternal.wa.gov/biennium/2015-16/Pdf/Bills/House%20Passed%20Legislature/1115.PL.pdf>

2013-15 (\$10.7M) [Sec. 1084]: <http://lawfilesexternal.wa.gov/biennium/2013-14/Pdf/Bills/Session%20Laws/Senate/5035-S.SL.pdf>

2012 (\$5M) [Sec. 313]: <http://lawfilesexternal.wa.gov/biennium/2011-12/Pdf/Bills/Session%20Laws/Senate/5127.SL.pdf>

2015-17 Trans. Budget: <http://lawfilesexternal.wa.gov/biennium/2015-16/Pdf/Bills/Senate%20Passed%20Legislature/5988-S.PL.pdf>

2015-17 Trans. Projects: [http://leap.wa.gov/leap/Budget/Detail/2015/cTLEAPDoc2015NL-1\\_0629.pdf](http://leap.wa.gov/leap/Budget/Detail/2015/cTLEAPDoc2015NL-1_0629.pdf)

**1 -- Local Project Feasibility Analysis.** A documented determination developed by the local project sponsor, and approved by the local project sponsor's legislative body, that the proposed project:

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