

**Scott Boettcher**

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**From:** Tim Rubert <rubert@co.thurston.wa.us>  
**Sent:** Thursday, August 11, 2016 8:20 AM  
**To:** scottb@sbgh-partners.com  
**Cc:** Cynthia Wilson; Andrew Kinney  
**Subject:** FINAL Local Flood Relief Project Recruitment Form -- 07222016 (1)  
**Attachments:** FINAL Local Flood Relief Project Recruitment Form -- 07222016 (1).docx; ALL4RIVER RESULTS\_23july2016\_AJK Updates.xls; Chehalis\_Watershed.pdf

Scott

If you have any question please contact me.

Tim Rubert, CFM  
Plans Examiner/Floodplain Manager  
Thurston County Resource Stewardship  
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## 2017-19 Local Projects Recruitment Form

### Chehalis Basin Flood Relief

**A. What are local flood relief projects?** -- In general, local projects are those projects that provide predominantly localized and quantifiable benefit, are capable of being completed within the funding cycle, are supported by the jurisdiction within which the project is proposed, and are vetted and advanced through a public entity like a City, County, Conservation District, Agency, etc. Furthermore, local projects are envisioned as helping with flooding, not adverse to fish or habitat and (where possible) providers of multiple, quantifiable benefits.

**B. What kinds of local flood relief projects are likely to be logical funding candidates for 2017-19?**

- Projects that complete an effort previously funded/started.
- Projects that advance improved emergency response.
- Projects that advance improved public infrastructure protection.
- Projects that advance improvements in local or community flood hazard reduction, including local flood proofing projects (e.g., elevations, buy-outs, foundation venting/opening, etc.).
- Projects that advance Conservation District initiated flood hazard reduction (e.g., farm pads, evacuation routes, bank erosion/bank stabilization, etc.)
- Projects that demonstrate innovation (e.g., thinking beyond traditional bank stabilization techniques in favor of natural system designs), partnerships, cost-sharing/leveraging resources, multiple benefits, and proactive vetting with agencies and tribes.
- Projects typically not in excess of \$3M for the stage/phase being funded.

**C. Are there projects that would not be good candidates?**

- Projects that seek to utilize State Capitol Budget dollars for uses not typically allowed (e.g., maintenance and repair work, cost-sharing under select circumstances, etc.).
- Projects likely to increase potential for flood damage upstream or downstream.
- Projects with unmitigable adverse environmental impacts or significant uncertainty regarding potential environmental impacts.
- Projects not sponsored by a public entity.

### Instructions:

- Please submit local flood relief project requests (via this form) to Scott Boettcher ([scottb@sbgh-partners.com](mailto:scottb@sbgh-partners.com)) no later than 5:00 p.m., Friday, August 12, 2016.
- Please submit one request form for each project proposed, even those past projects previously or partially funded.
- Note: Parts III and IV below [marked by "(\*\*)"] will be scored as part of the Flood Authority Projects Committee's review and evaluation. Part I and II will not be scored.



Part I General	
1. <b>Date:</b>	August 8, 2016
2. <b>Project Name:</b>	Flood Damage Reduction for Thurston County in the Chehalis Watershed
3. <b>Project Location</b> -- Please identify the location of the project as precisely as possible, including providing decimal degree latitude/longitude coordinates.	See List on last page and attached Excel file.
4. <b>Project Contact</b> -- Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.).	Tim Rubert CFM Resource Stewardship <a href="mailto:rubert@co.thurston.wa.us">rubert@co.thurston.wa.us</a> 360-754-3355 x6647
5. <b>Lead Organization</b> -- Please identify the lead organization, agency, entity, etc. responsible for this project. Please identify key partners responsible for assisting in the delivery or implementation of the project.	Thurston County Resource Stewardship Department –

Part II Description, Timing and Cost	
6. <b>Project Description</b> -- Please describe the project, what is intended to be accomplished, the benefits to be accrued, and to whom.	Elevate and/or buy out and remove residential structures in Thurston County in the floodplain of the Chehalis River basin.
7. <b>Project Timeline</b> -- Please describe the overall timeline for completion of the project as well any interim stages or phases.	This is a multi biennium project. Our 2017-2019 phase of the project will be completed by June 30, 2018. In 2015 Thurston County worked with French Wetmore to develop an approach to identify appropriate structures for elevation and/or buy out and remove. The attached files lists present target properties within the Chehalis River basin in Thurston County. Target properties that are located in the towns of Bucoda and Tenino have been forwarded to those jurisdictions. In the 2017-2019 budget cycle, Thurston County will focus on the properties identified with French Wetmore and on Citizen requests. This list will be utilized to create a prioritize list of interested residences by December 1, 2016. Bid and contractor



	selection will be completed by August 1, 2017 and contract work completed by August 1, 2018.
8. <b>Project Cost and Funding</b> -- What is the cost of this project? What are the on-going maintenance and operation requirements and costs? Is it clear who will be responsible for covering on-going maintenance and operation costs?	Thurston County proposes to Elevate 10 structures above the floodplain and Buy out 8 within the floodway. Total cost is estimates at \$1,932,500.00. There will be no on-going maintenance costs, either residential structures will be elevated and be the responsibility of the homeowner or bought-out and removed. Thurston County is forming a working group to determine best management practices for the parcels where the property is brought out. <b>NOTE:</b> Again, this is a multi-biennium project, all or part of this project can be funded. Thurston County will elevate or buy out whatever structures are within this 2017-2019 budget.
9. <b>Other Funding</b> -- Please explain the extent to which other funding sources or funding partners are available.	In the past Thurston County has used FEMA Hazard Mitigation, WA Dept. of Ecology FCAAP, and HUD Block grants for elevation, removal, and buy-out of structures impacted by flooding. These grants are not always available and Thurston County looks forward to adding grants for local projects from the Chehalis River Basin Flood Authority to the set of tools we use for flood mitigation.

Part III (**) Completion and Doability by June 30, 2019	
10. <b>Project Completion</b> -- Does the funding requested complete (or substantially complete) a project that has already been started? If so, please explain.	The project goal is to eliminate or significantly reduce the number of repetitive loss structures in Thurston County.
11. <b>Project Doable</b> -- Can this project or the stage/phase for which funding is sought be completed by June 30, 2019? Please describe any circumstances with potential to impact the project's doability or timeline (e.g., permitting or regulatory unknowns, lack of availability of other cost-share funding resources, etc.). Please describe any advance coordination or vetting with agencies, tribes, other entities, etc. and the outcomes of that effort.	Assuming a August 1 2017 start the project should be completed by June 30, 2019. Presently, no impedance to completion are foreseen. There will be early coordination with all involved entities, including tribes. We currently have a positive and collaborative relationship with other agencies, tribes and permitting representatives, for projects in the floodplain that should allow the projects to successfully be completed in a timely fashion.
12. <b>Project Impacts</b> -- Please identify how any project impacts will be mitigated, funded and if that	No project impacts are expected.





mitigation will be accomplished by June 30, 2019?	
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Part IV (**) Benefits Stated and Quantified	
13. <b>Emergency Response Benefits --</b> Please describe (and quantify) how this project enhances emergency response in a flood emergency (e.g., does it keep critical access roads and transportation facilities open and functional, does it enable easy movement of cattle, equipment and farm chemicals out of harm's way, etc.).	This project reduces the need for emergency access by removing threatened structures and modifying existing ones to withstand hazardous situations. It will also reduce the impacts to life safety by reducing rescue requirements as structures will no longer be in a hazardous situation. The project will also reduce property damage and protect the environment.
14. <b>Essential Infrastructure Protection Benefits --</b> Please describe (and quantify) how this project protects essential infrastructure and the risks or consequences of not acting this funding cycle.	Although this project does not specifically enhance or impact essential infrastructures. It does reduce the demand for emergency and essential infrastructure so it can be used elsewhere during an emergency.
15. <b>Public Health, Safety and Welfare Benefits --</b> Please describe (and quantify) how this project protects public health, safety and welfare.	This project provides important improvements to the public health, safety and welfare. This project will elevate structures above flood levels and/or remove structures from the floodway. The goal is to eliminate or significantly reduce repetitive loss impacts by elevating structures to make them safer during a flood or buying out and removing the structure to that loss or impacts do not occur. This compensates the land owner who can rebuild in a safer location and removes potentially hazardous materials, including debris, septic waste, chemicals and other pollutants, from the surface water that could affect many citizens downstream
16. <b>Residential, Commercial and/or Agricultural Protection Benefits --</b> Please describe (and quantify) how this project protects residential, commercial and/or agricultural interests and communities and the benefits of acting (or consequences of not acting) this funding cycle. Consider factors like number of structures at risk, number of people at risk, historic frequency of flood damage, magnitude of benefit to be gained for the cost, etc.).	The project with French Wetmore identified structures that would benefit from elevation above the floodplain or remove them from the floodway. This will potentially save lives, reduce property damage and provide environmental protection. This allows existing residential, commercial and agricultural activities to continue safely or relocate to a safer area. It is important to fund this during this funding cycle in order to build on the previous work with Mr. Wetmore. Updating the floodplain mapping is currently underway and will mesh directly into this proposal to identify the most threatened properties. Flooding of the basin areas is a likely possibility every



	winter.
17. <b>Other Project Impacts</b> -- Please explain how this project impacts or is potentially impacted by another project.	There no associated project impacts.
18. <b>Anything Else</b> -- Please feel free to offer any additional information (e.g., photos, maps, video, drawings, etc.) that would help to better understand the scope, timing and benefits of this project.	See attachment



## Appendix A

<b>Process/Schedule</b> (current as of 7-22-2017)	
July 21, 2016 (FA In-Person Mtg.)	<ul style="list-style-type: none"> <li>Post and distribute <b>local projects recruitment</b> request on 7/22/2016 following Flood Authority review/discussion at their 7/21/2016 meeting.</li> <li>Allow three weeks for project proposals/submittals (i.e., due no later than 5:00 p.m., Friday, August 12, 2016).</li> </ul>
August 18, 2016 (FA Conf. Call Mtg.)	<ul style="list-style-type: none"> <li>Receive proposals/submittals.</li> <li><b>Update Flood Authority</b> at their 8/18/2016 meeting on number received, type of projects received, distribution, etc.</li> </ul>
September 15, 2016 (FA In-Person Mtg.)	<ul style="list-style-type: none"> <li><b>Update Flood Authority</b> at their 9/15/2016 meeting on status of Projects Committee's effort to review, rank, discuss with Tribes, discuss with agencies, preliminarily sort and rank, etc.</li> </ul>
October 20, 2016 (FA In-Person Mtg.)	<ul style="list-style-type: none"> <li>Review/discuss <b>DRAFT ranked and prioritized list</b> with Flood Authority at their 10/20/2016 meeting.</li> </ul>
November 17, 2016 (FA Conf. Call Mtg.)	<ul style="list-style-type: none"> <li>Seek Flood Authority approval of <b>FINAL ranked and prioritized list</b> at their 11/17/2016 Flood Authority meeting.</li> </ul>



# THURSTON COUNTY

## Chehalis Watershed Topography and Hydrology

