



2015-17 Small Projects Recruitment Form

Chehalis River Basin Flood Relief

What are small projects? -- In general, small projects are those projects that provide predominantly localized 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 the Chehalis River Basin Flood Authority's Chehalis Basin Projects Committee.

Instructions:

- a. Please submit project requests (via this form) to Scott Boettcher (scottb@sbgh-partners.com) no later than 5:00 p.m. September 10, 2014.
- b. Please submit individual project request forms for each project in your jurisdiction, even those projects previously or partially funded in the past.
- c. Note: Parts III and IV below [marked by "(**)"] will be scored as part of the Chehalis Basin Projects Committee's review and evaluation. Part I and II will not be scored.

Part I General	
1. Date:	September 10, 2014
2. Project Name:	China Creek Phase 1 Construction
3. Project Location -- Please identify the location of the project as precisely as possible, preferable with latitude/longitude coordinates.	The approximate center of the project is located at: 46.726967 -122.934597
4. Project Contact -- Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.).	Kahle Jennings Public Works Director, City of Centralia (360)330-7512 kjennings@cityofcentralia.com
5. Lead Organization -- Please identify the lead organization, agency, entity, etc. responsible for this project.	City of Centralia. The Chehalis Tribe is a partner in the project.



Part II Description, Timing and Cost	
6. Project Description -- Please describe the project, what it is intended to accomplish, and the benefits that will accrue and to whom.	<p>Centralia is applying for funds to construct the first phase of what may eventually be a three phase project. Phase 1 is upstream storage modeled after the Johnson Creek Brookside Wetland project in Portland, OR. It is intended to use excavated naturally shaped landforms, stream channel friction and natural in stream features to slow down and store runoff from the upper China Creek watershed during high flow runoff events. Delaying the peak flow runoff from the upper basin (approximately 70% of the watershed, generating 40% of the runoff flow) will allow China Creek to transport runoff from the urbanized middle basin (approximately 15% of watershed, generating 50% of runoff flow) reducing the frequency and/or intensity of flooding downtown.</p> <p>The benefits of the project include reduced/eliminated flooding of downtown businesses, preserving access along main travel corridors for emergency vehicles and the public, and improved emergency response time during flood events. The beneficiaries are local business owners, the public and the public employees who serve the public during flood events.</p> <p>The need for phase 2 and 3 will be evaluated once the effects of phase 1 can be measured.</p>
7. Project Timeline -- Please describe the overall timeline for completion of the project as well any interim stages or phases.	Property purchased in June 2014; wetlands delineation October – December 2014; SEPA December 2014; hydraulic modeling, design and permitting: October 2014-May 2015; Archeological survey: October 2014- May 2015; construction June-September 2015; native planting October-November 2015
8. Project Cost and Funding -- What is the cost of this project? What are the on-going maintenance and operation requirements? Is it clear who will be responsible for on-going maintenance and operations costs?	<p>The pre-design construction cost estimate for this project is \$950,000.</p> <p>This project is being designed to incorporate characteristics of natural stream channels and natural water storage features. There should be minimal on-going maintenance and operation requirements for the flood mitigation components of the project. The flood mitigation M&O requirements that do exist will be performed by the City of Centralia, owner of the project area.</p>
9. Other Funding -- Please explain the extent to which other funding sources or funding partners are available.	City of Centralia purchased the property and will pay for wetland delineation, hydraulic modeling, design and permitting. Chehalis Tribe will assist by completing the archeological assessment and with native planting.



Part III (**) Completion and Doability by June 30, 2017	
10. Project Completion -- Does the funding requested complete (or substantially complete) a project that has already been started? If so, please explain.	Yes, this request is for funds to construct the project. The City has purchased the property, is preparing to have wetlands evaluated and is reviewing a proposal for hydraulic modeling and design. The Chehalis Tribe has been assisting with the scope of work for modeling/design and will survey the archeology of the area.
11. Project Doable -- Can this project or the stage/phase for which funding is sought be completed by June 30, 2017?	Yes. Current plans are to complete Phase 1 construction by the end of 2015. Permits may affect this schedule but construction will be completed before the end of 2016.
12. Project Impacts -- Please identify how any project impacts will be mitigated and if that mitigation will be accomplished by June 30, 2017?	<p>This project is being designed to provide a net benefit to both fish and water quality. China Creek was channelized decades ago to flow in a ditch along the south side of Little Hanaford Road. Restoring China Creek to something approximating its original meandering channel in property purchased in 2014 by the City for this project, along with restoration of fish friendly channel characteristics will benefit fish and water quality. Riparian planting will eventually grow to mature size stabilizing the banks, providing shade to cool the water and a source of nutrients for the aquatic ecosystem. The temporary storage of high flows will help extend flows in China Creek farther into the summer when it typically goes dry.</p> <p>There should be no negative impacts to water quality or fish habitat from this project. Construction will occur during the dry season and China Creek won't be connected until the channel enhancements have been completed.</p>
Part IV (**) Benefits Stated and Quantified	
13. Emergency Response -- Please explain how this project enhances our ability to respond in a flood emergency (e.g., does it keep critical access roads, transportation facilities, etc. open and functional.)	This is the first phase of a project that will reduce flooding in downtown Centralia. China Creek flooding closes several main emergency travel routes in downtown Centralia including Main Street, Pearl and Tower, Maple, Silver, Iron and Rock Streets.
14. Essential Infrastructure Protection -- Please explain how this project protects essential infrastructure (as well the risks or consequences of not acting this funding cycle).	This project will help protect transportation infrastructure along China Creek. Reducing the frequency and magnitude of flooding will reduce the scouring risk to the 20 bridges crossing China Creek through downtown Centralia. It will also help protect the recently restored stream section on the Centralia College campus.



<p>15. Public Health, Safety and Welfare -- Please explain how this project protects public health, safety and welfare.</p>	<p>Public Health, Safety and Welfare depends upon access. By preventing or reducing flooding on main traffic corridors emergency response vehicles will have access, or quicker access to residents and areas of town needing assistance.</p>
<p>16. Residential, Commercial and/or Agricultural Protection -- Please explain 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.).</p>	<p>China Creek flooding has direct and indirect impacts in the community. Direct impacts include flooding of businesses and homes adjacent to the creek channel. Indirect impacts include loss of business revenue, disruption of travel and disruption of emergency services during the times streets are impassible. China Creek flooding has historically been observed when 2.5 inches of rain falls during a 24-hour period. This occurs at a frequency of once every 3.5 years. Phase 1 of the project will reduce the magnitude of flooding and may reduce the frequency. Once the effects of phase 1 have been measured the effect, necessity and timing of phase 2 and possibly phase 3 can be determined.</p>
<p>17. Other Project Impacts -- Please explain how this project impacts or is potentially impacted by another project.</p>	<p>Although this project is not designed to prevent flooding when the Chehalis River floods and flows under Interstate 5 into the lower China Creek basin, when completed this project will reduce the flow from China Creek contributing to that flooding.</p>
<p>18. Anything Else -- Please feel free to offer any additional information (e.g., photos, maps, drawings, etc.) that would be helpful to better understand the scope, timeline and benefits of this project.</p>	<p>See attached design concept and location map.</p>

HISTORIC PROBLEM AREAS





