



## 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:

- a. 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.
- b. Please submit one request form for each project proposed, even those past projects previously or partially funded.
- c. 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.



<b>Part I General</b>	
1. <b>Date:</b>	12 August, 2016
2. <b>Project Name:</b>	Chehalis Wastewater Treatment Facility Removal & Habitat Restoration Project
3. <b>Project Location</b> -- Please identify the location of the project as precisely as possible, including providing decimal degree latitude/longitude coordinates.	1191 Northwest Shoreline Drive, Chehalis, WA 98532 Parcel #005794001000 (9.29 acres) Parcel #005790001000 (0.69 acres) 46°66'16.83"N -122°98'28.42"W
4. <b>Project Contact</b> -- Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.).	Trent Lougheed <a href="mailto:tlougheed@ci.chehalis.wa.us">tlougheed@ci.chehalis.wa.us</a> 360-345-2229
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.	Lead: City of Chehalis Partner: Skillings Connolly, Inc.

<b>Part II Description, Timing and Cost</b>	
6. <b>Project Description</b> -- Please describe the project, what is intended to be accomplished, the benefits to be accrued, and to whom.	<p>The Chehalis Wastewater Treatment Facility, located at 1191 Northwest Shoreline Drive, is a roughly 10-acre abandoned wastewater treatment facility (POTW). The project area has aging infrastructure throughout the site and the potential to contaminate rising flood water. Additionally, unoccupied and unmaintained facilities such as this are a liability to the city due to potential vandalism and illegal occupation. The proposed project will include the removal of all structures, pavement, and fill associated with the facility. Since the site is directly adjacent to the Chehalis River and lies within the flood plain, this site has the potential to serve as additional flood storage, improved wildlife habitat and a future site for recreation. Following demolition and debris removal, the site will be fully restored to the original wetland habitat.</p> <p><b>*It should be noted that this site is included in the City's Flood Storage Basin Master Plan</b></p>



<p>7. <b>Project Timeline</b> -- Please describe the overall timeline for completion of the project as well any interim stages or phases.</p>	<p><b>Phase 1</b> of this project is anticipated to begin in the summer of 2018 and include demolition and removal of existing wastewater treatment facilities, excavation to a depth of 4 feet, and site stabilization via fine grading and native vegetation erosion control.</p> <p><b>Phase 2</b> of this project will include further excavation of the site, importation of wetland-appropriate fill, and native wetland planting and seeding. Phase 2 will complete the process of returning the 10-acre site to the original wetland habitat.</p> <p><b>Phase 3</b> of this project will include wetland monitoring to ensure the site is providing flood storage and fauna habitat as intended.</p> <p><b>Phase 4</b> of this project will include the installation of pervious, interpretive paths and educational signs throughout the site. If funding allows, this phase will also include 5-10 parking spaces constructed of pervious surfacing.</p> <p>The timeline of all phases will be dependent on available funding.</p>
<p>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?</p>	<p><b>Phase 1:</b> \$2,823,380</p> <p>All funding will be in the form of grants. Agencies in line with this type of project are the Chehalis Flood Authority, Recreation Conservation Organization (RCO), Salmon Safe, etc.</p> <p>It is the intention of the City of Chehalis to fund Phase 1 using this grant from the Chehalis Flood Authority and Phase 2 using a grant from the Recreation Conservation Organization (RCO) and similar agencies. Phase 3 and 4 will be completed as grant funding becomes available.</p> <p>Given the habitat restoration element of this project, a one, three, five and ten-year monitoring plan will need to be implemented by the City's partners to ensure restoration success.</p> <p>Following site restoration, maintenance will be minimal</p>



	<p>unless the site is incorporated into the Park Program. Once a part of the Park Program, the Chehalis Parks Department would manage and maintain the facility.</p>
<p>9. <b>Other Funding</b> -- Please explain the extent to which other funding sources or funding partners are available.</p>	<p>Additional funding in the form of grants will be applied for through RCO, Department of Ecology, Salmon Safe and others.</p>
<p><b>Part III (**)</b> <b>Completion and Doability by June 30, 2019</b></p>	
<p>10. <b>Project Completion</b> -- Does the funding requested complete (or substantially complete) a project that has already been started? If so, please explain.</p>	<p>This project has not been started but complies with funding timelines associated with the Flood Authority and the requirements to complete Phase 1 by 2019.</p>
<p>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.</p>	<p>Yes, Phase 1 of this project can be completed by June 30, 2019 with the funding available from this grant.</p> <p><b>Phase 1</b> will include the demolition and removal of existing infrastructure, excavation of existing soil to a depth of 4 feet, and site stabilization using fine grading and native vegetation. The budget for Phase 1 was primarily derived from assumptions made from review of aerial imagery and site visit photos, as the existing facility plans are outdated and inaccurate. Given these limitations, there is a potential for unforeseen costs associated with infrastructure demolition and removal (ex: more sewage in lines than expected, underground storage tank not apparent during site visit, lead paint, etc). The budget for Phase 1 does have a 10% contingency built in, but additional funding can be borrowed from Line Item #7 "Excavation (4' Average Depth)." To the extent necessary, excavation can be reduced in depth and/or transferred to Phase 2.</p> <p><b>Phase 2</b> will include excavation of existing soil an additional 3 feet, importation of appropriate fill, and restoration of the site vegetation to its original wetland status. The budget for Phase 2 was created with the assumption that Phase 1 will include excavation to a depth of 4 feet. In the event that Phase 1 must reduce excavation depth, Phase 2 will absorb the cost to the extent necessary to total 7 feet average excavation depth for Phases 1 and 2.</p>



	<p><b>Phases 3 and 4</b> are of a fixed cost nature and less open to unplanned expenses.</p> <p>While no official coordination has occurred with federal, state, or local agencies, the restorative character of this project lends itself to the approval and support of regulatory agencies. Unofficial support has been expressed by a representative of the Confederated Tribes of the Chehalis Reservation (See Attachment H).</p> <p>Given the project location, coordination will take place with the Confederated Tribes of the Chehalis Reservation. Additionally, coordination will take place with federal, state, and local regulatory agencies to ensure all permitting guidelines are being met and environmental engineering and restoration plans are being implemented in accordance with local and state regulations.</p>
<p><b>12. Project Impacts</b> -- Please identify how any project impacts will be mitigated, funded and if that mitigation will be accomplished by June 30, 2019?</p>	<p>If funded by this grant, Phase 1 will be completed by June 30, 2019 and include removal of all existing infrastructure. The existing buildings and equipment negatively impact flood water conveyance and provide sources of contamination for passing flood water. Removal of these structures will mitigate any environmental impact caused by the execution of demolition and debris removal activities.</p> <p>At the completion of all phases, the entire site will be considered a restoration site as it will be returned to a natural habitat, flood storage, and stream and river riparian functions. The complete site restoration to natural conditions will mitigate existing conditions and impacts associated with project completion.</p>

<p align="center"><b>Part IV (**)</b> <b>Benefits Stated and Quantified</b></p>	
<p><b>13. 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</p>	<p>The ultimate goal of this project is to return the 10-acre site to its original wetland status as land adjacent to the Chehalis River. Wetlands, in their natural state, positively serve the community in several ways. The first, and most vital impact for the Chehalis River Valley, is the storage and slow release of flood water. The depressed elevation</p>



<p>harm's way, etc.).</p>	<p>and sponge-like quality of healthy wetland soil traps flood water and provides a slow release of flood volume, diminishing flood water speed and level. The second impact is the deceleration of flood water by woody shrubs and other wetland vegetation. With diminished and slower flood waters, risk of life and property is reduced and emergency personnel can function more effectively.</p> <p>Additionally, contaminants from roads, farms, and factories are naturally filtered by wetlands and floodways. As flood waters rise, the soil of the wetland rises and becomes suspended solids in the floodway. Contaminants bond to the suspended soil particles and, as wetland vegetation slows the floodwater velocity, the suspended soil particles settle once again in the depressed wetland area. With a significant wetland presence, floodwater will be cleaner and less dangerous for navigation by emergency personnel.</p> <p>Phase 1 will consist of removing derelict infrastructure from the flood plain and excavation of 4 feet of site soil. This will eliminate potential contamination during flood events and add flood storage for surrounding infrastructure and private property during periods of significant rain events.</p>
<p><b>14. 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.</p>	<p>The region surrounding the project site is home to residential, commercial, agricultural and recreational assets and is adjacent to I-5 access. Phase 1 removal of the existing wastewater treatment facility will alleviate stressors associated with the 100-year flood and other stormwater events. If action is not taken, the abandoned structures will continue to degrade and become an environmental hazard to the surrounding infrastructure. Expedient mitigation of the project area will prevent contamination by residual sewage in the abandoned treatment plant and increase flood storage for a region frequently plagued by high water events.</p>
<p><b>15. Public Health, Safety and Welfare Benefits --</b> Please describe (and quantify) how this project protects public health, safety and welfare.</p>	<p>Each phase of this project will have a positive impact on public health, safety, and/or welfare.</p> <p><b>Phase 1</b>, funded by this grant, consists of removing the existing Wastewater Treatment Plant infrastructure, an</p>



	<p>aging facility whose unoccupied and unmaintained status is a public hazard and liability due to potential vandalism and illegal occupation. The current structures are no longer structurally sound, contain residual sewage, and obstruct the natural flow of water through the Chehalis River Floodplain. Following the completion of Phase 1, the 10-acre site will be a natural area with increased flood storage through excavation.</p> <p><b>Phase 2</b> consists of further excavation for flood storage, native fill, and native vegetation for wetland creation. This will create a 10-acre flood mitigation area, capable of storing, slowing, and filtering flood water.</p> <p><b>Phase 3</b> consists of wetland monitoring. This ensures the success of the wetland and flood mitigation area through evaluation and modification by an environmental expert.</p> <p><b>Phase 4</b> consists of the development of the area as a nature education center. The wetland status and function of the project area will be conveyed to the public through educational signage and pervious, nature trails.</p>
<p><b>16. 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.).</p>	<p>This project assists in protecting the interests of the surrounding area, which includes residential, commercial, agricultural and industrial uses. On an annual basis, 1-2 flood events occur. Additional flood storage will help prevent excess stormwater runoff from accumulating in the surrounding area. With private land owners, residential areas, commercial centers, agricultural fields and industry close by, damage from flood waters can quickly accumulate to millions of dollars. Additionally, if the restoration site is made into an eco-park it will open the land up to the public.</p>
<p><b>17. Other Project Impacts</b> -- Please explain how this project impacts or is potentially impacted by another project.</p>	<p>This project is not directly tied to other projects but will serve the City of Chehalis by becoming a potential mitigation site to offset impacts to wetlands or critical areas associated with other projects.</p> <p>In addition, the restoration site will improve the habitat for wildlife including salmon, a vital species for this region.</p>
<p><b>18. Anything Else</b> -- Please feel free to offer any</p>	<p>Additional information included with this application is</p>



<p>additional information (e.g., photos, maps, video, drawings, etc.) that would help to better understand the scope, timing and benefits of this project.</p>	<p>provided in the attached documents. This includes the following:</p> <p><b>Attachment A:</b> Vicinity Map  <b>Attachment B:</b> NRCS Soils Mapping  <b>Attachment C:</b> FEMA Flood Insurance Rate Map  <b>Attachment D:</b> Well Logs for the Surrounding Area  <b>Attachment E:</b> National Wetland Maps and Supporting Data  <b>Attachment F:</b> Priority Habitats and Species List  <b>Attachment G:</b> Demolition Plan, Calculations, and Preliminary Phase 1 Estimate  <b>Attachment H:</b> Chehalis Tribe Email of Support  <b>Attachment I:</b> Site Photos</p>
--	---

**Appendix A**

<p align="center"><b>Process/Schedule</b> (current as of 7-22-2017)</p>	
<p>July 21, 2016 (FA In-Person Mtg.)</p>	<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>
<p>August 18, 2016 (FA Conf. Call Mtg.)</p>	<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>
<p>September 15, 2016 (FA In-Person Mtg.)</p>	<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>
<p>October 20, 2016 (FA In-Person Mtg.)</p>	<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>
<p>November 17, 2016 (FA Conf. Call Mtg.)</p>	<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>