

## Puyallup River Executive Task Force

### Current flood control actions by local organizations (updated August 26, 2011 – new activities highlighted in gray)

<b>City of Auburn</b>	<b>FUNDING:</b> Still awaiting CRS results; anticipate a 5.
	<b>POLICY:</b> Amended City floodplain regulations in April 2010 to incorporate the new FEMA NFIP-ESA draft model ordinance, which allowed for removing floodplain development moratorium. Currently reviewing FEMA's recent revisions to the model ordinance to determine whether additional amendments to City code are warranted.
	<b>POLICY:</b> Began process for long-term planning for flood control.
	<b>PROJECT:</b> Conducting an annual survey of miles 6 & 7 of the White River.
	<b>PROJECT:</b> Opened sand bag stations in the community, which are open 7 days a week.
	<b>PUBLIC OUTREACH:</b> Held a public open house on Jan. 26, 2011, which included presentations from FEMA and agency representatives.
<b>City of Buckley</b>	<b>POLICY:</b> City Council adopted a stormwater plan to meet the 100-year flood event regulations.
	<b>POLICY:</b> City Council is working on their flood stormwater plan and looking to work towards a 50-year flood event since the 100-year plan was not financially feasible.
<b>City of Fife</b>	<b>FUNDING:</b> Received a Category Five rating in the National Flood Insurance Program's Community Rating System.
	<b>FUNDING:</b> Their CRS rating was raised to a 5 for 25 percent reduction of flood insurance.
	<b>POLICY:</b> Adopted the draft flood plain map and incorporated updates into the development codes.
	<b>POLICY:</b> Adopted an update to require LID, unless a developer can demonstrate why it cannot be done.
	<b>POLICY:</b> Met with the councils of Milton and Edgewood about sharing shelter for emergency planning efforts.
	<b>POLICY:</b> They are restricting trucks on Levee Road to keep the levee in place.
	<b>POLICY:</b> Permitting projects to require compensatory storage.
	<b>PROJECT:</b> Working on several development-driven projects.
	<b>PROJECT:</b> An engineering team is looking at temporary flood barrier systems to protect critical city facilities and threatened areas of the community.
	<b>PROJECT:</b> Constructed a berm to protect the wastewater pump station, which was threatened in the last flooding event.
	<b>PROJECT:</b> Doing a new overlay on Levee Road to improve its structural integrity.

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	<b>PROJECT:</b> Conducting routine maintenance, including replacing a failing pump .
	<b>PROJECT:</b> Opened a park on land that doubles as compensatory storage for an industrial development project.
	<b>PUBLIC OUTREACH:</b> Distributed a “What does it mean to live behind a levee?” brochure, which includes development regulations, through door-to-door outreach.
	<b>PUBLIC OUTREACH:</b> In preparation for flooding this year, tested their Fife-specific emergency system.
	<b>PUBLIC OUTREACH:</b> Enhancing their 9-1-1 alert system by using Facebook and Twitter.
	<b>PUBLIC OUTREACH:</b> Worked with Port security on a joint exercise to ensure everyone knows the protocols and where the emergency ordinance is located.
	<b>STUDY:</b> Planning to conduct a lahar test on Feb. 7.
<b>City of Orting</b>	<b>FUNDING:</b> Received a \$50,000 grant from the WA Department of Ecology to replace a 42-inch outfall built in the 1960s.
	<b>FUNDING:</b> Received a Class Six rating in the National Flood Insurance Program’s Community Rating System.
	<b>FUNDING:</b> Applied for \$6.5 million in WRDA grants, and met with Rep. Reichert. Applied for a \$10 million loan for the Calistoga setback levee.
	<b>FUNDING:</b> Budgeted \$200,000 for a new outfall along the Carbon River for the wastewater treatment plant.
	<b>FUNDING:</b> Working with the Pierce County Department of Emergency Management on a WorkSource Federal Grant, which employed people working on flood impacts for more than 2300 hours from January 2008 through 2009.
	<b>FUNDING:</b> Working to achieve a 4 on their recent CRS submittal.
	<b>FUNDING:</b> They are working on salmon recovery and doing presentations to get additional funding.
	<b>FUNDING:</b> Signing a \$1.2 million agreement with the Salmon Recovery Board for the setback project and working on the design, which should be complete in June; Currently looking for grants for construction.
	<b>FUNDING:</b> Recently completed the first review on cost of service for capital service projects (including the Calistoga project); Utilities Committee is working on the calculation and construction requirements with no more than 50 percent grants .

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	<p><b>FUNDING:</b> Orting City Council approved \$670,000 in March for the Calistooga Levee project, which should be at 60 percent design by the last week of July. Additionally, secured \$1.7 million for construction, and are working with Piece County on property acquisition for that project.</p>
	<p><b>POLICY:</b> Met with Puyallup and the Washington Department of Fish and Wildlife to review habitat elements.</p>
	<p><b>POLICY:</b> Working with Lorin Reinelt on the Flood Hazard Management Plan, and came up with five potential activities.</p>
	<p><b>POLICY:</b> Adopted a comprehensive flood hazard mitigation plan, which identifies risks and allows the city to apply for federal funds.</p>
	<p><b>PROJECT:</b> Working with Citizens for a Healthy Bay to create rain gardens at several city businesses.</p>
	<p><b>PROJECT:</b> Designing and preparing for permitting comments during the last week of July for the 1.5 mile levee setback project.</p>
	<p><b>PROJECT:</b> Purchasing properties and at 100 percent design on the Calistoga setback levee project.</p>
	<p><b>PROJECT:</b> Working on a bar removal study.</p>
	<p><b>PROJECT:</b> In the final design of the Calistoga Setback levee project. The project is a total of \$700,000.</p>
	<p><b>PROJECT:</b> Utilized Buckley prisoners to add sandbags to the levee.</p>
	<p><b>PROJECT:</b> Replacing flood control structures along the river.</p>
	<p><b>PROJECT:</b> Working on another appraisal for Calistoga Levee Setback project (Dec. 17), resulting in 100 percent ownership.</p>
	<p><b>PROJECT:</b> Looking at sites on the Carbon River and removing noxious weeds and plantings.</p>
	<p><b>PROJECT:</b> Working with Citizens for a Healthy Bay (CHB) on their National Pollutant Discharge Elimination System (NPDES) permit for stormwater.</p>
	<p><b>PUBLIC OUTREACH:</b> The EnviroScope educational tool was used successfully at a resource fair.</p>
	<p><b>PUBLIC OUTREACH:</b> Tours of Environmental Protection Agency sites are being given to middle and high school students, and Orting participated in four river cleanups this year, with a total of 41 participants so far.</p>
	<p><b>PUBLIC OUTREACH:</b> Posting the levee setback project on their website.</p>
	<p><b>PUBLIC OUTREACH:</b> Working with the school district to implement an environmental education program on flood protection and salmon.</p>

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	<p><b>PUBLIC OUTREACH:</b> Conducting four public outreach events this fall about flood preparedness.</p>
	<p><b>PUBLIC OUTREACH:</b> Working with Pierce County to identify projects that will help the community.</p>
	<p><b>PUBLIC OUTREACH:</b> Presenting to a 4<sup>th</sup> grade class in January about the cycle of water.</p>
	<p><b>PUBLIC OUTREACH:</b> Will be hosting their emergency preparedness fair in August or September.</p>
	<p><b>PUBLIC OUTREACH:</b> Have just purchased a hands-on educational model called EnviroScape that allows kids to set up their town and surrounding area and use best management practices for water maintenance.</p>
<p><b>Pierce County Department of Emergency Management</b></p>	<p><b>COORDINATION:</b> Convened a meeting with the National Weather Service and Washington state Department of Emergency Management to discuss how Pierce County can provide better flood forecasting.</p>
	<p><b>COORDINATION:</b> Recently hosted the National Weather Service (NWS) for a flood forecasting presentation. They are working with the City of Orting and the NWS to improve flood warning location accuracy for better forecasting for Orting.</p>
	<p><b>FUNDING:</b> Applied for a Department of Labor National Emergency Grant of up to \$2.1 million, currently being used in part for the Orting Workforce program. These grant funds are an opportunity to put the long-term unemployed back to work with flood protection-related projects including restoration, community outreach, etc. Projects with labor relating to flood protection can still be submitted to Pierce County.</p>
	<p><b>FUNDING:</b> Received a \$2 million Hazard Mitigation Program grant for the acquisition of flooded structures; the funds will be used to aid residents wanting to get out of the floodplain.</p>
<p><b>Pierce County Department of Surface Water Management</b></p>	<p><b>FUNDING:</b> Investigating the creation of a flood control zone district to better fund required flood control maintenance and capital projects.</p>
	<p><b>FUNDING:</b> Submitted a WRDA request to receive advance credit from the Corps for early project work.</p>
	<p><b>FUNDING:</b> Applied for grants from the State Department of Emergency Management for three separate projects.</p>
	<p><b>PLANNING:</b> Developing a Pierce County Rivers Flood Hazard Management Plan for the Puyallup, Carbon, White, Nisqually, Greenwater and Mashel rivers and South Prairie Creek. The plan will focus on capital projects, programs and policies to address flooding and channel migration issues.</p>

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	<b>PLANNING:</b> Working with WSDOT on preventing flooding on the Puyallup River with the Puyallup Bridge Replacement and HOV project.
	<b>PROJECT FUNDING / DESIGN:</b> Received a Salmon Recovery Funding Board grant for 100 percent design of the South Fork levee setback project and 30 percent design for the Fennel Creek levee setback project on the Puyallup River.
	<b>PROJECT:</b> Pierce County is working to remove aquatic weeds from Clarks Creek, as they can cause flooding in the summer.
	<b>PROJECT:</b> Acquired flood prone structures. Through the Hazard Mitigation Grant Program (FEMA) and the Flood Control Assistance Program (WSDOE), and using local funds for match, Pierce County has provided \$5.2 million toward acquisition of flood plain properties.
	<b>PROJECT:</b> Initiating permitting for 2010 gravel removal at three gravel bars on the Puyallup River. Other sites near Sumner are also being evaluated.
	<b>PROJECT:</b> South Silver Springs restoration project summer 2010 will expand the flood capacity of South Prairie Creek by removing fill and reestablishing a fish-friendly meandering channel.
	<b>PROJECT:</b> Completed the silt bench bank stabilization project on the Puyallup River.
	<b>PROJECT:</b> Ongoing levee repairs and minor debris removal to protect communities at risk due to channel migration or levees weakened during previous floods.
	<b>PROJECT:</b> Restoration of the mouth of Woodland Creek at Clarks Creek, including removal of 100 feet of culvert, excavation of a broad channel and junction with Clarks Creek. Increases flood carrying capacity of Clarks Creek and Woodland Creek.
	<b>PROJECT:</b> Working with King County on the implementation of the County Line levee setback project on the White River.
	<b>PROJECT:</b> Working with King County on a new association for floodplain management for Washington State. The goal of the association is to bring together professionals from organizations for educational opportunities, trainings with FEMA and a legislative outreach group to address changes to state law. The county intends to circulate a letter through the Washington Association of Counties or the Washington Association of Cities.
	<b>PROJECT:</b> Currently working in the Nisqually area on the entrance to Mount Rainier.
	<b>REGULATORY:</b> Pierce County is one of 22 Washington communities participating in the drafting and review of updates to FEMA's floodplain development regulations.
	<b>REGULATORY:</b> Preparing for an upcoming Community Rating System re-certification meeting. Pierce County expects to advance from a Class 3 to a Class 2 community.
	<b>STUDY:</b> Working with the USGS through a joint agreement to evaluate flood-carrying capacity and sedimentation trends on the Puyallup, White and Carbon river systems.
<b>Port of Tacoma</b>	<b>PROJECT:</b> A rain garden was opened at the Port of Tacoma earlier this year.

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	<b>PROJECT:</b> The Port completed a major 29.8 acre mitigation project at Parcel 88.
	<b>PROJECT:</b> The Port is preparing to survey 40 acres of land along Clear Creek for a potential mitigation project that would possibly add flood storage capacity.
<b>City of Puyallup</b>	<b>FUNDING:</b> Received a partnership grant from Washington State University (WSU) extension for \$1 million to study low impact development (LID) strategies such as porous concrete for on-the-ground solutions in the flood plain.
	<b>FUNDING:</b> Working on purchasing the 14 <sup>th</sup> Street property—a property that traditionally floods.
	<b>POLICY:</b> Evaluating land use regulations. The city is focusing on code improvements and regulations to identify areas where it should be more difficult to build and changing codes so that they are friendly to LID. The city is looking at amendments to allow instead of prohibit solutions such as rain gardens, biosoils and green ribbons.
	<b>POLICY:</b> Working with USGS to establish two real-time elevation gauges on the Puyallup River and one on Clarks Creek.
	<b>POLICY:</b> Working with Washington State University to get real-life data on how well things are working.
	<b>PROJECT:</b> A request for proposals has been released for setback levees at a new Puyallup property.
	<b>PROJECT:</b> The City of Puyallup is also working with rain gardens.
	<b>PROJECT:</b> Working on a storm modeling system as part of the Stormwater Comprehensive Plan.
	<b>PROJECT:</b> Using grant money to turn existing gravel alleyways into porous pavement.
	<b>PROJECT:</b> Finalizing purchase of two properties that flood frequently.
	<b>PUBLIC OUTREACH:</b> Ciscoe Morris's radio show featured a City of Puyallup rain garden project.
	<b>PUBLIC OUTREACH:</b> Working with the USGS to install new elevation gages on bridges that span the Puyallup River, to help increase public understanding of their use.
	<b>Puyallup Tribe</b>
<b>FUNDING:</b> Applying for National Flood Insurance Program.	
<b>POLICY:</b> Approved an emergency management committee, which is meeting monthly.	
<b>POLICY:</b> Working with Pierce County Department of Emergency Management regarding training and emergency management plans.	
<b>POLICY:</b> Working with WSDOT to ensure that the discharge from project construction is clean.	

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	<p><b>POLICY:</b> Setup an emergency housing program to assist tribal members if they are evacuated in a flood.</p>
	<p><b>PROJECT:</b> Working on emergency housing for evacuations, applying for grants to cover equipment and command posts, and pulling together a citizen response team.</p>
	<p><b>PUBLIC OUTREACH:</b> The Tribe recently held a press conference on Clarks Creek with the Environmental Protection Agency, the Department of Ecology, Washington State University, and Representative Norm Dicks where the Tribe is examining a long-term solution for flooding and sediment management. Lisa reported that the City of Puyallup is one of 10 cities nationwide that is being awarded for green initiative.</p>
	<p><b>PUBLIC OUTREACH:</b> Hosted a safety fair in concert with the Emerald Queen Casino.</p>
	<p><b>PUBLIC OUTREACH:</b> Going door to door in at-risk areas to provide flood kits and emergency contact information.</p>
	<p><b>PUBLIC OUTREACH:</b> Working with elders and other departments to meet with vulnerable populations to address special needs.</p>
	<p><b>PUBLIC OUTREACH:</b> Working with the City of Puyallup, WSU and Pierce County on Clarks Creek for a long-term solution.</p>
	<p><b>PUBLIC OUTREACH:</b> Adding emergency housing program information to website.</p>
<b>City of Sumner</b>	<p><b>FUNDING:</b> Applying for hazard mitigation funding to raise a floodwall around their wastewater treatment plant, which came within half a foot of flooding in January 2009.</p>
	<p><b>FUNDING:</b> Received money for a feasibility study of a setback levee across the Puyallup from the River Grove area and hopes to receive more funding for design of that project.</p>
	<p><b>FUNDING:</b> Received Salmon Recovery Board and Pierce County funding for the 24th Street setback levee project.</p>
	<p><b>FUNDING:</b> Continue to work to find funding for their wastewater treatment facility.</p>
	<p><b>FUNDING:</b> Working on funding for the treatment plan wall and proceeding ahead with design.</p>
	<p><b>POLICY:</b> Adding stormwater regulations into city code.</p>
	<p><b>POLICY:</b> Working to improve emergency preparedness by working with Pierce County Emergency Management.</p>
	<p><b>POLICY:</b> Working on the 24<sup>th</sup> Street Setback Feasibility Study.</p>
	<p><b>POLICY:</b> Starting to look at how to deal with the realities of a large amount of industrial development, while protecting investments, and dealing with flooding.</p>
	<p><b>PROJECT:</b> Continuing its floodwall design around the water treatment plant, and is now working to secure funding.</p>

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	<b>PROJECT:</b> Completed a stormwater outfall and treatment project in concert with SR 410 work.
	<b>PROJECT:</b> Researching a potential sizable wetland mitigation project.
	<b>PROJECT:</b> Work has begun on the 24 <sup>th</sup> street setback.
	<b>PROJECT:</b> Watching recent flooding on 16 <sup>th</sup> Street; Corps has done additional levy work there.
<b>City of Tacoma</b>	<b>POLICY:</b> Updating development regulations, including 2010 floodplain ordinance updates with higher local standards, compensatory storage and whether there are areas in the Tacoma area that should be regulated as floodway. The ordinance update will examine the alignment of Tacoma with other areas.
	<b>POLICY:</b> Tacoma City Council will consider non-structural recommendations considered by the ETF.
	<b>POLICY:</b> Mapping efforts are building a foundation for regulatory tools needed for developing needed tools and a comprehensive flood hazard management plan.
	<b>POLICY:</b> The current Pierce County Flood Hazard Management Plan is over 20 years old and does not include the portion of the Puyallup River in Tacoma. Tacoma is working to amend emergency response plans, including temporary diking of the main sewage treatment plant, and plans to complete a permanent dike of the facility.
	<b>POLICY:</b> In permitting for the flood control plan.
<b>King County</b>	<b>FUNDING:</b> Working out problems with Flood District funding created by the impacts of the economic downturn, property taxes, and levy suppression; Intend to work with State Legislature to change the flood district status from junior taxing district status.
	<b>FUNDING:</b> The King County Flood Control District funding issue is at the state level of discussion now. The County is lobbying to move the district up to a senior taxing agency.
	<b>PROJECT:</b> Working on two major White River capital projects within the City of Pacific; Recently completed purchase of 11 homes and some agricultural properties for the Right Bank project; Acquisitions for Left Bank are progressing well.
	<b>PROJECT:</b> Data collection efforts continue; Plan to re-occupy 52 cross-sections later this year; completing LIDAR study this spring (all data will be shared with the Corps).
	<b>PROJECT:</b> have completed 11 residential acquisitions (\$3.6 million) for levee setbacks.
	<b>PROJECT:</b> The County Line Project is on schedule to start construction next year
<b>WA Department of Ecology</b>	<b>FUNDING:</b> Flood Damage Prevention grants are supporting a city of Orting stormwater outfall project and a Town of Wilkeson project for protecting water and sewer lines.

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	<p><b>PROJECT:</b> The Department of Ecology has just finished the latest round of Puyallup watershed reviews. The department is discussing restoration and development of the river.</p>
	<p><b>PROJECT:</b> Implementing a statewide inventory of levee systems and level of service.</p>
	<p><b>RESOURCES:</b> In the process of hiring a flood manager.</p>
<p><b>WA State Department of Transportation</b></p>	<p><b>PROJECT:</b> Continuing to work on floodplain mitigation as part of projects; largest effort currently on Tacoma HOV lanes at River Road.</p>
<p><b>US Army Corps of Engineers</b></p>	<p><b>PROJECT:</b> Conducting a White River channel capacity study, which will be done this spring; the results will be tied into the GI Study.</p>
	<p><b>PROJECT:</b> Has emergency management teams on the Puyallup and White Rivers doing testing so that they are ready to go.</p>