The following table summarizes projects submitted through the Chehalis Flood Authority’s process for the Governor’s 2013-2015 Capital Budget. Each project is summarized using the following basic information and criteria which were approved by the Flood Authority at their September meeting:

- Project Name, Location and Description.
- Project Cost Estimate.
- 2013-15 Funding Request.
- Project Type.
- Project Benefit.
- Project Readiness / Project Status.
- Known or Potential Impacts.
- On-Going Responsible Entity.
- Project Contact.

To see project locations and access project submittal forms, go to http://goo.gl/maps/WA1bj.

Projects highlighted in yellow below are projects that have already received initial funding support through the State’s Jobs Now Act funding process.

Question, comments, corrections should be directed to Scott Boettcher, scottb@sbgh-partners.com, 360/480-6600.

### Summary of Proposed Flood Relief Projects Submitted for Further Consideration by CRBFA

<p>| | |</p>
<table>
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</thead>
<tbody>
<tr>
<td>1. Grays Harbor County</td>
<td>A. <strong>Chehalis River Bank Erosion Risk Assessment for the Satsop Business Park industrial water line</strong> -- The Grays Harbor Public Development Authority owns and operates an industrial water well site and water line that runs along the south shore of the Chehalis River in Grays Harbor County. A section of the pipeline and associated access road has experienced flood damage and needs protection or relocation from future bank erosion during flooding events. The Phase I project requires a hydrology analysis of the risks and costs associated with the continued flood damage. The exposed water line (cooling water and industrial supply), electrical cables, fiber optic cable and access road would represent a major economic loss for the Satsop Business Park and the 650 Megawatt Grays Harbor Energy plant if they were lost. [Note: A 650 Mwt plant can provide the electrical needs for approximately 600,000 people.]</td>
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</table>

**Project Cost:**

- **Project Cost Estimate** -- **$52,000** (Phase I -- Hydrology analysis and update of Chehalis River hydraulic model to understand risks, costs and alternatives).
- **2013-15 Funding Request** -- **$52,000** (Phase I -- Hydrology analysis and update of Chehalis...
River hydraulic model to understand risks, costs and alternatives).

**Project Information:**

- **Project Type** -- Erosion control, Infrastructure preservation.
- **Project Benefit** -- Ensures protection and continued operation of industrial utility infrastructure for:
  - 650 Mwt Plant (650K person capacity).
  - Industrial business park (30 businesses).
- **Project Readiness / Project Status** – The Phase I project can begin immediately and be completed within the funding cycle. Phase I will take 3 to 6 months to complete. Phase II (once known) will likely be able to be completed within the 2013-2015 funding cycle (assuming supplemental Phase II funding).
- **Known or Potential Impacts** – No known impacts for Phase I. Impacts for Phase II implementation will be assessed at a later date when Phase II project specifics are known.
- **Community Support** – Community at large is not likely aware of this project.
- **On-Going Responsible Entity** -- Grays Harbor Public Development Authority.
- **Project Contact** -- Joel Rett, jrett@satsop.com, 360/482-1626.

### B. Elma-Porter Flood Mitigation Project -- South Elma Road (Wakefield Rd.), Dunlap Road, Porter Creek Road West

- Placing ~900 foot overflow bridge on Wakefield Road Bridge north of South Elma Bridge over the Chehalis River. (??alternate route available??)
- Performing river modeling, pre-design, and project permitting to improve through-flow on Dunlap Road.
- Performing river modeling, pre-design, and project permitting to improve through-flow on Porter Creek Road West, at the South Bank Road/Porter Creek Road West Intersection, and on South Bank Road between the South Bank Road/Porter Creek Road West Intersection and Riding Road (at the Sharon Grange).

Project is intended to provide a viable egress route for residents and businesses south of the Chehalis river from southwest of Porter to Montesano during major flood events. Businesses include Satsop Development park, Briggs nursery, commercial farms and the gas fired power plant. These can all be isolated by flooding along with several smaller businesses during flood events.

**Project Cost:**

- **Project Cost Estimate** -- $6,200,000.
  - $6,000,000 (Construct overflow bridge on Wakefield Road Bridge).
  - Dunlap and Porter Creek Roads:
    - $50,000 (Refine model and perform alternatives analysis for the reach between Porter Creek Road and S. Elma Road).
    - $150,000 (Refine flood relief alternatives and do pre-design, final design and permitting for culvert installation in the Porter Creek/South Elma junction area).
- **2013-15 Funding Request** -- $6,200,000
  - $6,000,000 (Construct overflow bridge on Wakefield Road Bridge).
  - $50,000 (Refine model and perform alternatives analysis for the reach between Porter
Creek Road and S. Elma Road).
  - $150,000 (Refine flood relief alternatives and do pre-design, final design and permitting for culvert installation in the Porter Creek/South Elma junction area).

**Project Information:**
- **Project Type** -- Modeling, Culvert installation, Bridge construction.
- **Project Benefit** -- Provides egress (South Elma Road) and protection for:
  - Hundreds of workers from Satsop Development park, Briggs nursery, commercial farms, gas fired power plant and more.
  - ~12 residences directly affected.
- **Project Readiness / Project Status** -- Project (all three elements) can begin immediately and be completed within the funding cycle. Note1 – Major project elements can be implemented in parallel, thus assuring completion within the funding cycle. Note2 – The overflow bridge has already been designed and is now ready to go construction.
- **Known or Potential Impacts** – No known or potential impacts have been identified.
- **Community Support** – Yes.
- **On-Going Responsible Entity** – Grays Harbor County (Public Works).
- **Project Contact** -- Jay Gordon, gordondairy@hotmail.com, 360-951-8419 or Karl Goeres, karlgoeres@hotmail.com, 360-485-9909.

### C. Satsop River Floodplain Restoration --
The Satsop River Floodplain Restoration project consists of reclaiming 100 acres of migration zone by removing parts or all of 5,200 lineal feet of constructed dike and 2,500 lineal feet of riprapped riverbank. Project is intended to restore floodplain function, re-establish access to off-channel habitat and allow the Satsop River to access 2/3 of its lower reach migration zone. The expansion of the migration zone of the Satsop River will reduce the continuous eroding of the banks of the river creating losses of valuable prime agricultural soils. Eight agricultural landowners will directly benefit from this project.

**Project Cost:**
- **Project Cost Estimate** -- $1,009,800 (Preliminary design, alternatives analysis, costing, final design, permitting and construction).
- **2013-15 Funding Request** -- $509,800 ($50,000 Jobs Now already spent and $450,000 Jobs Now assumed for re-appropriation to 2013-2015 leaving $509,800 in remaining cost for Preliminary design, alternatives analysis, costing, final design, permitting and construction).

**Project Information:**
- **Project Type** -- Floodplain restoration.
- **Project Benefit** -- Reduces erosion of farmland for ~8 agricultural landowners/businesses directly affected.
- **Project Readiness / Project Status** – Project will very soon be in the design stage and is assumed to be able to be completed within the funding cycle.
- **Known or Potential Impacts** – Will be identified when project specifics are known and final engineering is completed. It is anticipated that project will have positive fish benefits.
- **Community Support** – Yes (Satsop Committee). Note: This project has received initial funding support through the State’s Jobs Now Act funding process.
- **On-Going Responsible Entity** – Grays Harbor County, WDFW.
- **Project Contact** -- Commissioner Terry Willis, twillis@co.grays-harbor.wa.us and
<table>
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<tr>
<th>Potential Flood Relief Projects for 2013-15 Capital Budget</th>
<th>10/30/2012</th>
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</thead>
</table>

**D. Wishkah Road (Kersh) Flood Levee** – Major project elements for the project consist of: (1) Land acquisition to provide additional flood plain storage on two parcels located right along the Wishkah River; and (2) construction of a sheet pile wall (dike) or combination dirt dike 2,000 feet long to prevent rain and tidal flooding from closing the road. This project will prevent the road (primary road) from closing to important emergency fire, police and EMS vehicles as well as to through-traffic while providing flood damage relief to approximately nine homes and one business from tidal and river flooding. [Note -- The only alternative is to use the logging roads that are privately owned. In some cases these were locked and unavailable and in other cases the landowner was able to unlock them and let emergency vehicles through.] This project will also open up the tidal surge plain with the removal of derelict buildings and debris on the riverside of the dike, creating new and better habitat for fish and wildlife.

**Project Cost:**
- **Project Cost Estimate** -- **$2,642,000** (Final design and permitting for $400,000; construction and land acquisition for $2,242,000).
- **2013-15 Funding Request** -- **$2,642,000** (Final design, permitting, construction and land acquisition).

**Project Information:**
- **Project Type** -- Land acquisition, Levee/dike (new).
- **Project Benefit** – Provides flood storage and habitat restoration benefits as well provides protection for:
  - Road to stay open for emergency fire, police and EMS vehicles, as well local through-traffic.
  - ~9 residences.
  - 1 business.
- **Project Readiness / Project Status** -- Project will very soon be in the design stage and is assumed to be able to be completed within the funding cycle.
- **Known or Potential Impacts** -- Will be identified when project specifics are known and final engineering is completed.
- **Community Support** -- Yes (petition from 300 local citizens). Note: This project has received initial funding support through the State's Jobs Now Act funding process.
- **On-Going Responsible Entity** – Grays Harbor County (Public Works).
- **Project Contact** -- Commissioner Terry Willis, twillis@co.grays-harbor.wa.us and commish@co.grays-harbor.wa.us, 360-581-4608 and 360-249-3731.

**2. Aberdeen**

**E. Market Street Dike** – Project is to construct a 2,800 foot long dike along the western bank of the Wishkah River and tie it to existing higher ground on each end. The dike would be constructed primarily within the existing public street right of way of Market Street. The dike would consist of a combination of different sections constructed to above the base flood elevation. It is anticipated that most of the project would consist of raising the road and sidewalk to create sufficient high ground to function as a dike. The dike will prevent water from overtopping the existing river bank and flooding commercial and residential property to the west, as well work to prevent flooding of Market Street and adjacent streets. There are about 80
homes and five businesses within the City that are located landward of the dike that could benefit from the project. During flood events Market Street and some of the adjacent streets are flooded and traffic is either stopped or impaired.

**Project Cost:**

- **Project Cost Estimate** -- $670,000 ($113,000 for Preliminary engineering design, costing, $557,000 for final design and construction).
- **2013-15 Funding Request** -- $670,000 (Preliminary engineering design, costing, final design and construction).

**Project Information:**

- **Project Type** -- Dike (new).
- **Project Benefit** -- Provides protection for:
  - Local adjacent streets.
  - ~80 residences.
  - ~5 businesses.
- **Project Readiness / Project Status** -- Project can be designed and constructed within the funding cycle.
- **Known or Potential Impacts** -- Impacts are not known at this time and are assumed (once the project is fully designed) to not be significant (construction will be above the ordinary high water line).
- **Community Support** -- Yes (Public Works Master Project List).
- **On-Going Responsible Entity** -- City of Aberdeen.
- **Project Contact** -- Bill Simpson, mayor@aberdeenwa.gov, 360-537-3227.

**F. Trail/Dike Behind Burger King** -- Project is to construct a 300 foot long concrete floodwall along the eastern bank of the Wishkah River between the two Wishkah bridges. The wall would consist of a footing and concrete wall constructed to above the base flood elevation. A five foot wide pathway would be placed on the land side of the wall and connected to higher ground near both bridges. The floodwall will prevent water from overtopping the existing river bank and flooding commercial and residential property to the east, as well work to prevent flooding of State Highway. There are about 30 homes and 30 businesses within the City that are located east of the floodwall that could benefit from the project. During flood events the State Highway is flooded and traffic is either stopped or impaired. [Note: This project works best in tandem with the Wishkah River East Bank Dike project for full (major flood) benefit. Without the tandem project the benefit is limited (minor flood).]

**Project Cost:**

- **Project Cost Estimate** -- $140,000 (Final design and construction).
- **2013-15 Funding Request** -- $140,000 (Final design and construction).

**Project Information:**

- **Project Type** – Dike (new).
- **Project Benefit** -- Provides protection for:
  - State Highway 101 and local streets.
  - ~30 residences.
  - ~30 businesses.
- **Project Readiness / Project Status** -- Project will very soon be in the design stage and as such
### Potential Flood Relief Projects for 2013-15 Capital Budget

**G. Wishkah River East Bank Dike** — Project is to construct a 1,200 foot long dike along the eastern bank of the Wishkah River and tie it to existing higher ground on each end. The dike would be constructed primarily within the existing public street right of way. The dike will consist of a combination of sections constructed to above the base flood elevation. Some tide gates will be required on existing storm drain outfalls to the river. The dike will prevent water from overtopping the existing river bank and flooding commercial and residential property to the east; as well will work to prevent flooding of the State Highway. There are about 30 homes and 30 businesses within the City that are located east of the floodwall that could benefit from the project. During flood events the State Highway is flooded and traffic is either stopped or impaired. [Note: This project works best in tandem with the Trail/Dike Behind Burger King project for full (major flood) benefit. Without the tandem project the benefit is limited (minor flood).]

**Project Cost:**

- **Project Cost Estimate** — $270,000 (Final design and construction).
- **2013-15 Funding Request** — $270,000 (Final design and construction).

**Project Information:**

- **Project Type** — Dike (new).
- **Project Benefit** — Provides protection for:
  - State Highway 101 and local streets.
  - ~30 residences.
  - ~30 businesses.
- **Project Readiness / Project Status** — Project will very soon be in the design stage and as such will be able to be constructed within the funding cycle.
- **Known or Potential Impacts** — Impacts are not known at this time and are assumed (once the project is fully designed) to not be significant (construction will be above the ordinary high water line).
- **Community Support** — Yes (Public Works Master Project List). Note: This project has received initial funding support through the State’s Jobs Now Act funding process.
- **On-Going Responsible Entity** — City of Aberdeen.
- **Project Contact** — Bill Simpson, mayor@aberdeenwa.gov, 360-537-3227.

### 3. Cosmopolis

**H. Mill Creek Dam Improvements** — Project is to replace the Mill Creek Dam that was breached during the November 2008 storm. The population directly affected by this project is approximately 325 people (??# of homes??) in Cosmopolis and at least 200 (??# of homes??) in South Aberdeen. Also two businesses (Western Peterbilt with 25 employees and D4 Sports with...
seven employees) are adjacent to Mill Creek and are directly affected by its flood flows. Western Peterbilt provides Cosmopolis with tax base revenue on annual sales in excess of $14,000,000. The Grays Harbor County Road Maintenance Shop (with 10-15 employees) is also directly adjacent to Mill Creek. It stores critical equipment for the maintenance of roads in the central part of Grays Harbor County.

**Project Cost:**
- **Project Cost Estimate -- $2,000,000** (Preliminary design, alternatives analysis, costing, final design, permitting, and construction).
- **2013-15 Funding Request -- $250,000** ($100,000 for Hydraulic analysis, $150,000 for Alternatives analysis).

**Project Information:**
- **Project Type --** Dam replacement.
- **Project Benefit --** Provides protection for:
  - ~325 residences (Cosmopolis).
  - ~200 residences (South Aberdeen).
  - Two significant employers (Western Peterbilt with 25 employees and D4 Sports with 7 employees).
  - Grays Harbor County Road Maintenance Shop (with 10-15 employees).
- **Project Readiness / Project Status --** Phase I hydraulic analysis and alternatives analysis can be completed within the funding cycle.
- **Known or Potential Impacts --** Impacts are not known at this time and will be fully identified following Phase I. Project may require modification of downstream culverts and tide-gates. This will likely require environmental review and permitting.
- **Community Support --** Yes (2012 City Multi-Objective Plan for Mill Creek, 2010 City Hazard Mitigation Plan)
- **On-Going Responsible Entity --** City of Cosmopolis
- **Project Contact --** Darrin Raines, City of Cosmopolis Public Works / Community Development Director, PO Box 2007; Cosmopolis, WA 98537, 360-533-4280, draines@cosmopolis.us.com.

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### Montesano

#### Mary’s River Lumber Bank Protection --
Ongoing erosion of the Chehalis River shoreline is currently threatening Mary’s River Lumber Mill. The Mill and the City of Montesano seek to stabilize the bank along the property so mill operations at the site can continue. Proposed project is to preserve jobs and critical facilities threatened by the loss of the Mill (employees 120 people), Montesano Road (SR 107 bridge) and the City’s $20,000,000 wastewater treatment plant that serves the City’s ~4,000 residents.

**Project Cost:**
- **Project Cost Estimate -- $2,000,000** (Placeholder -- Final design, permitting, construction).
- **2013-15 Funding Request -- $2,000,000** (Placeholder -- Final design, permitting and construction).

**Project Information:**
- **Project Type --** Bank stabilization, Erosion control.
- **Project Benefit --** Provides protection for:
  - ~120 jobs at Mary’s River Lumber Mill.
  - State Highway 107 (bridge).
<table>
<thead>
<tr>
<th></th>
<th>Montesano Municipal Waste Water Treatment Plant.</th>
<th>Project Readiness / Project Status -- Project will very soon be in the design stage and is assumed to be able to be completed within the funding cycle.</th>
<th>Known or Potential Impacts -- Will be identified when project specifics are known and final engineering is completed. The scope and scale of the project will likely necessitate environmental review and permitting for any of the in-water work aspects of the project.</th>
<th>Community Support – Yes. Note: This project has received initial funding support through the State’s Jobs Now Act funding process.</th>
<th>On-Going Responsible Entity – City of Montesano.</th>
<th>Project Contact -- Mayor Ken Estes, City of Montesano, <a href="mailto:mayor@montesano.us">mayor@montesano.us</a>, 360-249-3021.</th>
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<tbody>
<tr>
<td></td>
<td>Will not be submitting projects.</td>
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<td>J. Flow Channel Under SR 6 – Excavate approximately 550,000 cubic yards of earth to build a 500-foot wide bridge or a number of box culverts under State Route 6 just to the east of Scheuber Road. This project will require property acquisition or flood easements on left bank properties. The proposed channel would be a high flow bypass and would not be constructed to provide fish habitat. The bed of the channel would be similar to the downstream flow path on the north side of SR-6. Presently flood waters pond/pool behind State Route 6 then overtops it. In 1984, WSDOT removed a “farm road overcrossing” in this area through which flood waters flowed.</td>
<td>Project Cost:</td>
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<td>Project Cost Estimate -- $TBD (Preliminary design, alternatives analysis, costing, final design, permitting and construction).</td>
<td>2013-15 Funding Request -- $TBD (Preliminary design, alternatives analysis, costing, final design, permitting and construction).</td>
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<td></td>
<td>Project Type -- Culvert installation.</td>
<td>Project Information:</td>
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<td>Project Readiness / Project Status – Project can likely be designed and constructed within the funding cycle.</td>
<td>Known or Potential Impacts -- Will be identified when project specifics are known and final engineering is completed.</td>
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<td>Community Support – Not known.</td>
<td>On-Going Responsible Entity -- Lewis County (Public Works), WSDOT</td>
<td>Project Contact -- Tim Elsea, PE, Lewis County Public Works, Director/County Engineer, 2025 NE Kresky Ave., Chehalis, WA, 98532, 360-740-2697, <a href="mailto:Tim.Elsea@lewiscountywa.gov">Tim.Elsea@lewiscountywa.gov</a>.</td>
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<td>K. City of Centralia China Creek Flood Project – Project is to design and construct a series of water retention structures in the China Creek watershed for short term storage of runoff during high rainfall events. The major emphasis will be on storage in the upper watershed but some off-channel storage in the flood-prone area along China Creek may be incorporated.</td>
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components of the project are project design, property agreements with landowners where the structures will be located or property acquisition, SEPA review and permitting, and construction. Upstream storage on China Creek will reduce flooding within the downtown residential and commercial areas of Centralia for several blocks on each side of China Creek between Yew Street and Railroad Avenue. Rainfall runoff and storage option modeling is presently underway and is being paid for ($50,000) by Centralia. Modeling will be completed by January 1, 2013.

**Project Cost:**
- **Project Cost Estimate** -- $16,800,000 ($1,500,000 for Engineering design, SEPA and permitting, $4,500,000 for Land acquisition and $10,800,000 for Construction).
- **2013-15 Funding Request** -- $6,000,000 ($1,500,000 for Engineering design, SEPA and permitting, $4,500,000 for Land acquisition).

**Project Information:**
- **Project Type** -- Water retention.
- **Project Benefit** -- Provides protection for:
  - Residential and commercial areas of Centralia several blocks on either side of China Creek (between Yew Street and Railroad Avenue).
  - Local roads for City transportation and stormwater infrastructure.
  - Local roads for emergency responders.
- **Project Readiness / Project Status** -- Engineering design, SEPA and permitting, and land acquisition are assumed to be able to be completed within the funding cycle.
- **Known or Potential Impacts** -- Will be identified through the engineering design and SEPA process. Impacts are assumed to be mitigable. Benefits to aquatic habitat are assumed to be a net gain over current conditions.
- **Community Support** -- Yes.
- **On-Going Responsible Entity** -- City of Centralia.
- **Project Contact** -- Kahle Jennings, City of Centralia Public Works Director, 360-330-7512, kjennings@cityofcentralia.com.

8. **Chehalis**

**L. Airport Levee (Phase II)** -- Project consists of elevating the existing airport levy using (1) earthen material where the footprint at the base is large enough and (2) floodwalls constructed generally with pilings atop existing levy where drainage or rights-of-way occur at the base. Project is intended to protect the airport and its operations, the commercial area east of the airport runway, and assist in protecting Interstate 5 from closure during a major Chehalis River flood event. Airport road at the south end of the airport property would be elevated several feet and terminate in the West Street overcrossing approach.

**Project Cost:**
- **Project Cost Estimate** -- $2,600,000 (Phase II -- Construction and mitigation).
- **2013-15 Funding Request** -- $2,600,000 (Phase II -- Construction and mitigation).

**Project Information:**
- **Project Type** -- Levee raise/extend.
- **Project Benefit** -- Provide protection for:
  - Airport and its operations.
  - Major commercial/economic retail area. (??quantification of affect??)
  - Helping (along with other projects) to protect Interstate 5.
- **Project Readiness / Project Status** – Project is assumed to be able to be constructed within the funding cycle, assuming too Phase I is completed and impacts from Phase II can be mitigated.

- **Known or Potential Impacts** – Upstream impacts from elevating the levee are assumed; downstream impacts are not assumed. Impacts from elevating the levee will need to be addressed through identified mitigation prior to starting construction.

- **Community Support** – Yes. Note: This project has received initial funding support through the State’s Jobs Now Act funding process.

- **On-Going Responsible Entity** – Chehalis-Centralia Airport.

- **Project Contact** – Allyn Roe, Airport Manager, Chehalis-Centralia Airport, 360-748-1230, aroe@flycls.com.

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**M. Dillenbaugh Creek Realignment** – Project is to excavate a meandering channel as necessary to divert the flow of Dillenbaugh Creek from its undercrossing at Rice Road through Stan Hedwall Park to a confluence with Newaukum River within the Park. The concept is to create significant habitat enhancement for both the involved Newaukum and Dillenbaugh reaches and would be designed to convey flood flows through the Park rather than through the southwest portions of Chehalis and the I-5 freeway. Project is intended to prevent flood damage by diverting flood flows of the Dillenbaugh and to some extent, the Newaukum, around currently affected areas of southwest Chehalis and the freeway. There are approximately 74 residential structures and 13 businesses (cursory map count – subject to detailed study), as well as the freeway itself that are affected by flood flows in this reach of the Dillenbaugh. Project also has introduced a small berm along the west side to act as a spectator seating area for the soccer field and possibly to help keep Dillenbaugh and Newaukum flooding from scouring the park. Other benefits of this project include significant habitat enhancement for fish migration and spawning, opportunities for public access points in the Park, creation of ponding areas for waterfowl, and significant reduction of the cost of construction when the I-5 freeway is widened in the future.

**Project Cost:**

- **Project Cost Estimate** -- $500,000 (Hydraulic/hydrology analysis, preliminary design, alternatives analysis, costing, final design, permitting, and construction).

- **2013-2015 Next Stage Cost** -- $500,000 (Hydraulic/hydrology analysis, preliminary design and costing, permitting, final engineering and construction).

**Project Information:**

- **Project Type** -- Flood conveyance, Habitat enhancement.

- **Project Benefit** -- Provides protection for:
  - ~ 74 residences.
  - ~ 13 businesses.
  - Interstate-5.

- **Project Readiness / Project Status** -- Project is assumed to be able to be constructed (excavated) within the funding cycle.

- **Known or Potential Impacts** – Impacts at the conceptual stage where the project is now are not known. Impacts identified through design and engineering are assumed likely to not be significant and to be mitigable (if found to exist). Project is intended to provide net gain in habitat value beyond current.
<table>
<thead>
<tr>
<th>9. Napavine</th>
<th><strong>N. Kirkland Road Culvert Project</strong> -- Project is to install a culvert along the north side of Kirkland Road to guide water to the Newaukum River via the culvert and an existing slough. Project would also raise Kirkland Road as a means of eliminating flooding issues on the road itself. Benefits of the project include alleviating flooding to major businesses in the area, ensuring emergency vehicle access and reducing impacts to traffic getting on and off the freeway at Exit 72. Major businesses include McDonald's, Burger King, Ramblin Jacks Restaurant, Subway, gas stations, and the Bethel church as well as many families living in the area.</th>
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<tr>
<td><strong>Project Cost:</strong></td>
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<tr>
<td>• <strong>Project Cost Estimate</strong> -- <strong>$2,555,000</strong> (Preliminary design, alternatives analysis, costing at $55,000 final design, permitting and construction at $2,500,000).</td>
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<tr>
<td>• <strong>2013-15 Funding Request</strong> -- <strong>$2,555,000</strong> (Preliminary design, alternatives analysis and costing).</td>
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<td><strong>Project Information:</strong></td>
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<tr>
<td>• <strong>Project Type</strong> -- Culvert installation, Road raise/regrade.</td>
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<tr>
<td>• <strong>Project Benefit</strong> -- Provides protection for:</td>
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<tr>
<td>o Major businesses (McDonalds, Burger King, Ramblin Jack Restaurant, Subway, gas stations).</td>
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<tr>
<td>o Local church (Bethel church).</td>
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<td>o Local residences.</td>
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<td>o Continued access through Exit 72 (Interstate 5).</td>
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<td>• <strong>Project Readiness / Project Status</strong> -- Project is assumed to be able to be designed, engineered, permitted and constructed within the funding cycle.</td>
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<tr>
<td>• <strong>Known or Potential Impacts</strong> -- Not known. Will be identified when project specifics are known and final engineering is completed.</td>
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<td>• <strong>Community Support</strong> -- Yes.</td>
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<tr>
<td>• <strong>On-Going Responsible Entity</strong> -- City of Napavine.</td>
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<tr>
<td>• <strong>Project Contact</strong> -- Steve Ashley, Public Works Director, City of Napavine, 360/262-3547, <a href="mailto:sashley@cityofnapavine.com">sashley@cityofnapavine.com</a>.</td>
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<tr>
<th>10. Pe Ell</th>
<th><strong>O. Town of Pe Ell Wastewater Treatment Plant Flood Prevention Dike</strong> -- Project is to build a dike on the Chehalis River part of the wastewater treatment plant boundary to prevent flooding of the treatment plant. Project would prevent flooding of the treatment plant which could send raw sewage into the Chehalis River as did occur with the 2007 flood. Damage to the treatment plant from the 2007 flood required repairs at a cost of ~ $1,000,000. Treatment plant was originally constructed in 2004.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Cost:</strong></td>
<td></td>
</tr>
<tr>
<td>• <strong>Project Cost Estimate</strong> -- <strong>$521,000</strong> (Preliminary design, alternatives analysis, costing, final design, permitting and construction).</td>
<td></td>
</tr>
<tr>
<td>• <strong>2013-15 Funding Request</strong> -- <strong>$521,000</strong> (Preliminary design, alternatives analysis, costing, final design, permitting and construction).</td>
<td></td>
</tr>
</tbody>
</table>
### Project Information:

- **Project Type** -- Dike (new).
- **Project Benefit** -- Provide protection and continued operation for Pe Ell Wastewater Treatment Plant (sole treatment capacity for 350 residences and ~20 businesses).
- **Project Readiness / Project Status** – Project is assumed to be able to be designed, engineered, permitted and constructed within the funding cycle.
- **Known or Potential Impacts** -- Not known. Will be identified when project specifics are known and final engineering is completed.
- **Community Support** – Yes.
- **On-Going Responsible Entity** – Town of Pe Ell.
- **Project Contact** -- Spencer Nichols, peellmayor@centurytel.net, 360-291-3543.

### Thurston County

Will not be submitting projects.

### Bucoda

**P.  Bucoda Levee Improvement (Phase II)**

- Project is to raise and extend the existing levee in order to fully encircle the Town of Bucoda’s wellhead and drinking water equipment with a continuous levee system that protects the Town’s drinking water system. The proposed project is viewed as essential to protect the Town’s drinking water system including the wellhead, pumps, generator and equipment from future flood damage. The drinking water system in the sole source of potable water and water for firefighting for the Town’s citizens.

#### Project Cost:

- **Project Cost Estimate** -- $305,000 (Phase II -- Final design and construction).
- **2013-15 Funding Request**-- $305,000 (Phase II -- Final design and construction).

### Q.  Regrade Main Street

- Project is to raise Main St. to allow passage of emergency vehicles during flood events and to install culverts to allow through-flow. When flooding occurs in Bucoda there are 50 homes in the southwest section of town (220 homes total in Bucoda) which are cut off from the main road. During the flood in Jan. 2009 these homes and the citizens were isolated from emergency services for two days.

#### Project Cost:

- **Project Cost Estimate** -- $174,263 (Preliminary design, alternatives analysis and costing for $109,506; Final design and permitting for $49,657; Direct cost at $15,100). Cost does not
include construction costs.

- **2013-15 Funding Request -- $174,263** (Preliminary design, alternatives analysis, costing, final design and permitting).

  **Project Information:**

  - **Project Type** -- Road raise/regrade, Culvert Installation.
  - **Project Benefit** -- Provides protection for:
    o Main St. to stay open for emergency fire, police and EMS vehicles, as well local through-traffic.
    o ~50 residences.
  - **Project Readiness / Project Status** -- Initial Phase of project (preliminary design, alternatives analysis, costing, final design and permitting) can be completed within the funding cycle.
  - **Known or Potential Impacts** -- Not known. Will be identified when project specifics are known and final engineering is completed.
  - **Community Support** -- Yes
  - **On-Going Responsible Entity** -- Town of Bucoda.
  - **Project Contact** -- Mayor Alan Carr, mayorofbucoda@scattercreek.com, 360-278-3525.

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**Other Projects Also Submitted**

| 13. Conservation Commission | R. **Chehalis River Basin Fish Habitat Projects** -- 119 sites in the upper basin and 20 in the lower basin have been identified that would provide water quality and fish habitat benefits. Conservation commission is currently looking to prioritize ~20 projects and is working with landowners and NRCS to determine where and how best to proceed. Projects would consist of placing large wood along the stream banks to create fish habitat and to lower the amount of sediment entering the river, sloping back the banks, and planting native trees along the river to create future shade, stabilize banks and create aquatic inhabitants food source.

  **Project Cost:**

  - **Project Cost Estimate -- $2,000,000** (Design, permitting, construction of various projects).
  - **2013-15 Funding Request -- $2,000,000** (Design, permitting and construction of various projects).

  **Project Information:**

  - **Project Type** -- Habitat enhancement.
  - **Project Benefit** -- Provides protection for:
    o Bank erosion.
    o Localized farmland and fences.
  - **Project Readiness / Project Status** -- Projects are assumed to be able to be implemented within the funding cycle.
  - **Known or Potential Impacts** -- Not known at present (site locations not yet chosen).
  - **Community Support** -- Yes (Coordinated Resource Management sessions).
  - **On-Going Responsible Entity** -- WA State Conservation Commission.
  - **Project Contact** -- Bob Amrine: bob.amrine@wa.usda.gov, Butch Ogden: butch.ogden@scc.wa.gov. |