

ALL PROJECTS -- UNDERWAY; NOT UNDERWAY; MULTI-PURPOSE

7/15/2014

I. PROJECTS UNDERWAY IN GRAYS HARBOR COUNTY

Aberdeen	Burger King Trail/Dike	
Aberdeen	Dike Bank of Wishkah North of Highway	
Aberdeen	Market Street Dike	
Aberdeen	Southside Dike/Levee Certification	
Chehalis Tribe	Oxbow Lake Reconnection	
Chehalis Tribe	Sickman-Ford Overflow Bridge	PROJECT COMPLETE, NO FURTHER FUNDING NECESSARY
Cosmopolis	Mill Creek Dam Improvement	
Grays Harbor County	Elma-Porter Flood Mitigation ["South Bank Road (MP 16.9)"]	
Grays Harbor County	Satsop River Floodplain Restoration (Phase I)	
Grays Harbor County	Wishkah Road Flood Levee ["Sheet-pile flood levee (Wishkah Road MP 2.2 to 2.7)"]	
Montesano	Revetment for Montesano Rd., Sewage Treatment Plant, Mary's River Lumber	PROJECT UNDER CONSTRUCTION, NO FURTHER FUNDING NECESSARY
WA Department of Fish and Wildlife	Satsop River Floodplain Restoration (Phase II)	
WSDOT/Grays Harbor County/City of Montesano	SR 107 Relic Channel Restoration	

II. PROJECTS UNDERWAY IN LEWIS COUNTY

Boistfort Water District	Wildwood Sediment Pond Addition	
Centralia	China Creek	
Chehalis Tribe	Oxbow Reconnection at RM 78	
Lewis County	Adna Levee	PROJECT COMPLETE, NO FURTHER FUNDING NECESSARY
Lewis County	Airport Levee (Phase I)	
Pe Ell	Wastewater Treatment Plant Flood Prevention Dike	PROJECT FUNDED, NO FURTHER FUNDING NECESSARY
WA Conservation Commission	Critter Pads, Evacuation Routes (Phase I)	PROJECT COMPLETE, NO FURTHER FUNDING NECESSARY

III. PROJECTS UNDERWAY IN THURSTON COUNTY

Bucoda	Bucoda Levee	PROJECT UNDER CONSTRUCTION, NO FURTHER FUNDING NECESSARY
Chehalis Tribe	Allen Creek Restoration	
Chehalis Tribe	Flood Gage Station	PROJECT COMPLETE, NO FURTHER FUNDING NECESSARY

IV. OTHER PROJECTS UNDERWAY	
TBD	Basin-wide Aquatic Species Plan
WA State Conservation Commission	Critter Pads, Evacuation Routes (Phase II)
WA State Department of Natural Resources	Geomorphic Analysis (see pg. 8)

V. PROJECTS NOT UNDERWAY	
City of Chehalis	Airport Levee Phase 2
City of Oakville	Subdivision Flooding
Grays Harbor County	Wishkah Road (MP 3.7 to MP 4.1) Flood Study
City of Elma	Wastewater Treatment Plant Outfall Repair
City of Montesano	WWTP Lagoon/Wynoochee River Erosion
Grays Harbor County	South Bank Road (MP 8.2)
City of Napavine	Newaukum River Bridges
Town of Bucoda	Restoration of Relic Channel
City of Chehalis	Potential Storage
City of Centralia	Skookumchuck River Mitigation
Thurston County/City of Centralia/Town of Bucoda	Skookumchuck Dam Operations

VI. MULTI-PURPOSE PROJECTS IDENTIFIED BY ECOLOGY AND WDFW IN	
Lewis County	WDFW Pheasant Farm
Lewis County	Salzer Creek Lower Mile Oxbow Reconnection and Riparian Restoration
City of Chehalis	Stan Hedwall Park Floodplain Reconnection
Grays Harbor County	Gaddis Creek Fish Barrier Culvert Project
City of Centralia	RM 68 Oxbow Reconnection
Grays Harbor County	RM 36 Oxbow Reconnection
Grays Harbor County	RM 43 Oxbow Reconnection
Lewis County	RM 78 Oxbow
Lewis County	Salzer Creek at Centralia Alpha Road Floodplain Storage and Riparian Restoration
Lewis County	Oxbow Lake Reconnection
Thurston County	Allen Creek Restoration

PROJECT DESCRIPTIONS

7/15/2014

PROJECT LOCATION	PROJECT NAME	DESCRIPTION
1. Boistfort Water District	Wildwood Sediment Pond Addition	<ul style="list-style-type: none"> • Add a second sedimentation pond to the current facility. • Some preliminary engineering has been completed. • Ensures large population in upper-basin continuing access to potable water supplies post a future major flood event.
2. Bucoda	Main Street Regrade	<ul style="list-style-type: none"> • See updated HDR project description.
3. Bucoda	Restoration of Relic Channel	<ul style="list-style-type: none"> • Evaluate excavating the relic channel as a high flow by-pass on the Skookumchuck River on the southeast side of the town. • Could alleviate flooding in the town.
4. Centralia	China Creek	<ul style="list-style-type: none"> • China Creek floods downtown during high flows on China Creek. • Potential project: Creating storage in upper basin to reduce flooding of downtown. • Some work has been done to date to look at alternatives. • City intends to construct a project in the vicinity of the Agnew Mill Ponds for flood damage reduction and habitat enhancement.
5. Centralia	Skookumchuck River Mitigation	<ul style="list-style-type: none"> • The highway work completed by WSDOT near the Skookumchuck River may not sufficiently protect the floodplain of the river. • Look for opportunities to mitigate impacts to the floodplain from the transportation project.
6. Centralia, Lewis County	Salzer Creek	<ul style="list-style-type: none"> • See updated HDR project description.
7. Chehalis	Airport Levee Phase 2	<ul style="list-style-type: none"> • Phase 1 is currently underway. • Phase 1 is widening the base of the existing levee and restoring the top of the levee to existing design level. • Potential project: Construct the levee to 3 feet above the 100-year flood elevation.
8. Chehalis	Dillenbaugh Creek Realignment	<ul style="list-style-type: none"> • See updated HDR project description.
9. Chehalis	Main Street Regrade	<ul style="list-style-type: none"> • See updated HDR project description.

10. Chehalis	Potential Storage	<ul style="list-style-type: none"> Brainstormed areas of open land that may have potential to increase storage. Potential storage areas: <ul style="list-style-type: none"> Between railroad and N. National Ave. By old WWTP. Salzer Creek – area of large wetland and floodplain.
11. Chehalis Tribe	Moon Road	<ul style="list-style-type: none"> See updated HDR project description.
12. Chehalis Tribe	Black River Bridge	<ul style="list-style-type: none"> See updated HDR project description.
13. Chehalis Tribe	Roundtree Creek	<ul style="list-style-type: none"> See updated HDR project description.
14. Cosmopolis	Mill Creek	<ul style="list-style-type: none"> Flooding of neighborhoods from Mill Creek and backwater of Mill Creek from Chehalis River flooding. Replacement of failed dam at Mill Creek Park. Assessment and possible modification to tide gate with installation of pump station. Assessment of culverts along Mill Creek for needed improvements. Some work has been done to date and City received partial funding for dam replacement.
15. Elma	Wastewater Treatment Plant	<ul style="list-style-type: none"> The streambank at the outfall is eroding. The outfall is exposed. The outfall is on Grays Harbor County property. Potential project: Relocate outfall and provide streambank protection.
16. Grays Harbor County	Wishkah Road (MP 3.7 to MP 4.1) Flood Study	<ul style="list-style-type: none"> Next step is a study of problems and potential solutions.
17. Grays Harbor County	Wynoochee Valley Road Regrade	<ul style="list-style-type: none"> See updated HDR project description.
18. Grays Harbor County	Sheet-pile flood levee	<ul style="list-style-type: none"> Construction of sheet-pile along Wishkah Road between Milepost 2.2 and 2.7, based on design which was previously funded.
19. Grays Harbor County	South Bank Road	<ul style="list-style-type: none"> Flooding on the Chehalis River causes the road to wash out near Mile Post 8.2. Potential project: Design and construct bridge to allow floodwaters to flow under the bridge and eliminate flooding and wash out of roadway.
20. Grays Harbor County	South Bank Road	<ul style="list-style-type: none"> Construction of overflow bridge at Mile Post 16.9, based on design which was previously funded.

21. Grays Harbor County, Montesano	SR 107 Relic Channel Restoration	<ul style="list-style-type: none"> Erosion issues in area. Potential project: Restoration of relic channel of the Chehalis River and cutting off oxbow. Act as an overflow channel. City has received initial funding for this project located in Grays Harbor County.
22. Lewis County, WSDOT	SR 6 Overflow	<ul style="list-style-type: none"> See updated HDR project description.
23. Montesano	WWTP Lagoon, Wynoochee River Erosion	<ul style="list-style-type: none"> Migrating river bend on the Wynoochee River exposing the embankment of the treatment plant sludge lagoon. In 2007 City installed emergency bank protection. Potential project: To install a long-term measure to protect WWTP facilities/lagoon. Next step is a study of problems and potential solutions.
24. Napavine	Kirkland Road Flooding	<ul style="list-style-type: none"> See updated HDR project description.
25. Napavine	Newaukum River Bridges	<ul style="list-style-type: none"> Suspect backwaters on Newaukum River due to I-5 and City's bridge downstream of I-5. Potential project: Study to look at causes and potential solutions.
26. Oakville	Subdivision Flooding	<ul style="list-style-type: none"> Flooding occurs in SE Oakville likely due to Harris Creek, Black River and another unnamed stream. Potential project: Study to determine flooding causes and potential solutions.
27. Thurston County, Centralia, Bucoda	Skookumchuck Dam Operations	<ul style="list-style-type: none"> Dam currently is not operated for flood storage. If the dam becomes available for other uses and/or ownership, potential project is to study the operations of the dam for multiple uses including flood storage.

Multi-Purpose Projects

28.	Lewis County, WDFW Pheasant Farm	200 acres (combined Washington Department of Fish and Wildlife [WDFW] and private landowner just downstream). WDFW owns a pheasant farm and may be open to conservation. Good floodplain area with potential excavation and enhancement. The area closest to the river already has a number of higher flow side channels and good riparian cover; existing good quality. There are a few fields that are hayed that could be excavated for wetlands and side channels and also revegetated.
29.	Lewis County, RM 78 Oxbow	Oxbow reconnection with mainstream of the Chehalis River, with side channel and floodplain storage enhancement and enhancement of low elevation areas, side channels, and floodplain habitat with vegetated benches and large wood vegetation.
30.	Lewis County, Salzer Creek at Centralia Alpha Road Floodplain Storage and	Create approximately 2,000 feet of sinuous stream and install LWD log clusters. Revegetate with native trees and shrubs. Excavate emergent wetland and revegetate with wetland plants.

	Riparian Restoration	
31.	Lewis County, Salzer Creek Lower Mile Oxbow Reconnection and Riparian Restoration	Connect Salzer Creek to old Chehalis River oxbow. Includes revegetating and regrading banks of Salzer Creek to 2:1 slopes with a bench or 3:1 slopes and removing invasives/planting a native understory. Also includes wetland creation, enhancement, and installation of LWD.
32.	Grays Harbor County, Oxbow Lake Reconnection	Approximately 75 acres; 2 landowners. Improve connection to main channel—not currently a connection but when floodwaters exceed the bank elevation (something above a 2-year flow, maybe 5-year flow), then it may briefly connect. Will require about 12 feet of excavation to create a channel connection to Chehalis River for winter rearing (i.e., November to May).
33.	Thurston County, Allen Creek Restoration	Restore natural functions to the Allen Creek floodplain and slow the creek down and restore more natural flood flow paths and flood storage. Improve 2100 feet of salmon habitat in the Scatter Creek Watershed.
34.	Grays Harbor County, RM 36 Oxbow Reconnection	Reconnect oxbow with mainstem Chehalis. Enhance low elevation areas, side channels, and floodplain habitat with vegetated benches and LWD.
35.	Grays Harbor County, RM 43 Oxbow Reconnection	Reconnect oxbow with mainstem Chehalis. Enhance low elevation areas, side channels, and floodplain habitat with vegetated benches and LWD.
36.	City of Centralia, RM 68 Oxbow Reconnection	Reconnect oxbow with mainstem Chehalis. Enhance low elevation areas, side channels, and floodplain habitat with vegetated benches and LWD.