WASHINGTON COAST RESTORATION INITIATIVE

Restoration for a Resilient Coast

Thank you for your ongoing support for coastal restoration. On the Washington Coast, **restoration means business-** healthy forests, rivers, and fish and wildlife are essential to our communities, ecosystems, and economies.

The Washington Coast Restoration Initiative **addresses the region's highest priority restoration needs**, **leverages existing funding**, **and puts people to work on the coast- restoring our unprecedented ecosystems while increasing the resiliency of our communities economically and ecologically**.

Typically, we spend a lot of money and effort to help salmon and other important wildlife only after they are in critical decline. These herculean efforts usually kick in when a species' habitat- be it a forestland, wetland, river or high meadow has been damaged nearly beyond repair. Recreating these habitats or restoring what is left then becomes exorbitantly expensive, with heavy demands on landowners and governments. This initiative is bucking that trend.

We are a community driven effort to **create jobs** and **restore coastal land and waters**. The coast continues to experience some of the highest unemployment rates in the state and these jobs are making a profound impact in our communities.

Restoration of Coastal Ecosystems + Economics = Resilient Coastal Communities

This is the best investment Washington can make to ensure healthy salmon, strong fisheries and vibrant coastal communities into the future.

Every **$1 MILLION** spent on restoration results in an average of **16.7 jobs**	**80 PERCENT** of grant money stays in the county where a project is located	For every estimated $1 million spent on restoration **$2.2 to $2.5 MILLION** is generated in total economic activity

2015 to **2017 Accomplishments**

- Over **100 miles** of salmon and steelhead habitat opened up
- Over **20 fish passage barriers** removed = more resilient community transportation infrastructure
- Over **12,000 acres** restored
- Over **1,000 derelict crab pots, lines, and buoys** removed from the nearshore
- Over **100 jobs** created

What is planned for 2017 to **2019?**

- Over **20 miles** of salmon and steelhead habitat opened up
- **5 fish passage barriers** removed
- **Flood risk reduction** for City of Hoquiam sewer plant
- **Reclassification of FEMA flood zones** for multiple Aberdeen neighborhoods
- Over **12,000 acres** restored
- Over **150 jobs** created

COAST SALMON PARTNERSHIP

Contact the Coast Salmon Partnership to learn more about how we are rethinking recovery to **protect the best and restore the rest**.

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The Nature Conservancy Washington

WASHINGTON COAST RESTORATION INITIATIVE: Restoration for a Resilient Coast

2015 - 2017 WASHINGTON COAST RESTORATION INITIATIVE PROJECTS

Project Name	Sponsor	Funding	Project Description
Black River Watershed Conservation & Restoration	Capitol Land Trust	$ 650,000	This project will conserve and restore 54 acres of degraded wetlands on the Black River and 40 acres of the Tilley wetland complex
Cathlamet Selective Fisheries	Wahkiakum County Port District	$ 300,000	This project will provide skills and tools to commercial fishermen to develop new processing and marketing opportunities for innovative gears and nets.
Coal Creek Culvert to Bridge	Pacific Coast Salmon Coalition	$ 162,000	This project will replace a small existing culvert with a bridge to allow for greater fish passage
Darlin Creek Conservation & Restoration	Capitol Land Trust	$ 1,300,000	This project will acquire 313 acres for permanent conservation and restore over 100 acres of diverse wetland and riparian habitat.
Ellsworth Creek Watershed Restoration	The Nature Conservancy	$ 950,000	The Ellsworth restoration program is designed to restore the health and function of the entire 5,000 acre Ellsworth Creek watershed by removing

				unneeded roads and bridges
Greenhead Slough Barrier Removal	Sustainable Fisheries Foundation	$	75,000	This project will replace the existing blocking culvert with a 70x26 ft steel bridge to allow for greater fish passage
Improved Gears for the Lower Columbia Fishery	Wild Fish Conservancy and WDFW	$	200,000	This project will quantitatively assess gear effectiveness and evaluate the ability of pound nets to provide sustainable futures for local Columbia River commercial fisheries and communities, potentially reducing unwanted catch of endangered species
Lower Forks Creek Restoration	WDFW	$	2,150,000	The restoration will remove several in-stream concrete structures that are below the hatchery facility and will improve channel diversity, channel stability and the ability to capture gravels.
Makah Tribe Salmon Restoration	Makah Tribe	$	174,000	This project will improve forest and stream habitat through road abandonment and upgrades, improving water quality and quantity, and benefitting coho, steelhead, chum, and chinook salmon.

Middle Fork Hoquiam Culvert Correction	Chehalis Basin Fisheries Taskforce	$	76,000	This project will open more than 2.65 miles of blocked stream habitat
Middle Fork Satsop Culvert Correction	Grays Harbor Conservation District	$	97,000	This project will replace culverts with bridges to open 9 miles of stream for spawning and rearing habitat.
Moses Prairie Restoration Project	Quinault Indian Nation	$	64,000	This restoration project will burn 10-20 acres of overgrown Moses Prairie bog land in 2016 to restore fish and wildlife habitat and native plants.
Pulling Together: Jobs in Restoration	10,000 Years Institute	$	550,000	This innovative project will create local watershed SWAT teams for early control of invasive plants that harm salmon and wildlife habitats, impact timber production, and which are toxic to people and livestock.
Quinault Nearshore Habitat Restoration	Quinault Indian Nation	$	343,000	This project will remove derelict crab pots and fishing gear from 155 square miles of Pacific Ocean habitat
Restoration of Elochoman and Grays River Basins	Wahkiakum County MRC	$	535,000	This funding would allow culvert replacement in Clear Creek and at another small tributary of the Elochoman River

Restoration of Prairies and Wetlands	Center for Natural Lands Management	$	200,000	This project will remove and control pest plants over hundreds of acres and plant 100,000 native plants annually
Rue Creek Salmon Restoration	Pacific Conservation District and Pacific County	$	982,000	This project will restore the health and function of approximately 6.5 miles of habitat.
Satsop River Watershed Restoration	Center for Natural Lands Management	$	150,000	This project will restore approximately 50 acres of riparian habitat spanning over 100 river miles through seasonal monitoring, remove invasive species, and plant native woody species.
Scammon Creek Barrier Removal	Lewis County Public Works	$	188,000	This project will restore salmon access to an additional 10.98 miles of potential habitat
Sullivan Ponds Restoration	Pacific Coast Salmon Coalition	$	43,000	This restoration project will enhance and expand on overwintering ponds on the North Fork of the Calawah River in Clallam County
Upper Quinault River Restoration	Quinault Indian Nation	$	1,900,000	This innovative project uses engineered logjams and forest restoration techniques to improve and restore in-stream salmon habitat, riparian forests, and floodplains in the 12

				mile restoration reach in the upper Quinault River valley
West Fork Satsop Culvert Correction	Grays Harbor Conservation District	$	96,000	This project will remove fish barriers along tributaries to the Satsop River

2017 - 2019 WASHINGTON COAST RESTORATION INITIATIVE PROJECTS

Project Name	Sponsor	Funding	Project Description
Pulling Together in Restoration	10,000 Years Institute	$ 531,000	10,000 Years Institute will use this grant to remove and reduce the spread of invasive plants from several north Coast rivers, including the Hoh, Queets, and Quillayute systems. The removal of invasive plants will improve river function, promote natural forest succession, and possibly reduce the need for road and ditch maintenance. This project will support the equivalent of ten full-time employees for a year with more than $430,000 proposed to go to wages and benefits.
Smith Creek	Pacific County Conservation District	$ 1,630,000	The Pacific County Conservation District will use this grant to replace two tide gates with a bridge over Smith Creek on Parpala Road. The work will provide fish passage to 4.75 miles of creek and restore about 100 acres of tidal estuary habitat. The new bridge and levee will provide flood protection to the road and some neighboring private property. Juvenile salmon, juvenile Dungeness crab, eulachon, and other estuary rearing species are anticipated to directly benefit from this project. This project has more than $290,000 in match and will support the equivalent of 17 full-time employees for a year with more than $850,000 proposed to go to wages and benefits.
Elochoman Knotweed Elimination	Wahkiakum Conservation District	$ 205,000	The Wahkiakum Conservation District will use this grant to identify and manage knotweed infestations in the Elochoman watershed. The project will encompass the entire Elochoman River watershed from the confluence with the Columbia River to the upper known extent of knotweed including tributaries, fields, and forested areas.

				Conservation district staff will work with landowners to survey, treat, and educate about managing knotweed. Once knotweed is managed, emphasis will be placed on restoring native, indigenous, woody vegetation where knotweed once dominated, resulting in restored streamside vegetation and riparian function. This project has $30,000 in match and will support the equivalent of two full-time employees for a year with more than $100,000 proposed to go to wages and benefits.
Hoh-Clearwater Restoration	The Nature Conservancy	$	1,041,000	The Nature Conservancy will use this grant to protect and restore freshwater salmon spawning and rearing habitat, and complex old-growth coastal forest habitat that is home to a tremendous variety of species relying on diverse forests on more than 9,000 acres along the Clearwater and Hoh Rivers. This multifaceted project will have both short-term and long- term positive direct benefits for the local ecosystem, aiding salmon, trout, amphibians, and birds. This project has $210,000 in matching and leveraged funds and will support the equivalent of 13 full-time employees for a year with more than $575,000 proposed to go to wages and benefits.
Elochoman River Community Watershed Project	**Wahkiakum Conservation District**	$	165,000	The Wahkiakum Conservation District will use this grant to collaborate with ten private landowners and the Washington Department of Fish and Wildlife to implement three projects within the Elochoman River watershed, effectively treating an additional 2.2 miles of watershed. The project will install wood-based structures in the streams to create habitat diversity and complexity, remove invasive species, develop and maintain side channel and off channel habitats, and restore

				riparian function along the Elochoman River, Beaver Creek, and in side channel habitats, benefiting fall Chinook, chum, and coho salmon and winter steelhead. This project has support from $618,000 in matching funds.
McClellan–Skamokawa Creek Community Watershed	Wahkiakum Conservation District	$	161,000	The Wahkiakum Conservation District will use this grant to install tree root wads and logs and restore the shorelines along a third-mile of the middle valley Skamokawa Creek and a quarter-mile of three different side channels in collaboration with three landowners. The project addresses all limiting factors for all life stages of all priority species as identified in the region's salmon recovery plan while helping a landowner address local resource concerns. Emphasis will be placed on establishment of forest shoreline buffers to restore watershed processes and maintain habitat long term. This project has $32,000 in match and will provide short-term support for 12 local positions.
Satterlund–Grays River	Wahkiakum Conservation District	$	70,000	The Wahkiakum Conservation District will use this grant to implement a salmon recovery project in collaboration with a private landowner on a third-mile of the Grays River watershed. The project addresses priority restoration needs and priority life stages for fall Chinook, chum, and coho salmon and winter steelhead, by installing wood-based structures in streams; planting a large shoreline buffer; improving habitat diversity, channel stability, width-to-depth ratios, flow, temperature, and sediment delivery; and restoring shoreline

				function along Grays River. This project has $14,000 in match and will provide short-term support for 12 local positions.
Lower Satsop River Restoration and Reduced Bank Erosion Project	Washington Department of Fish and Wildlife	$	1,030,000	The Washington Department of Fish and Wildlife and the Grays Harbor Conservation District will use this grant for a floodplain restoration site and a high flow channel to meet the dual objectives of wildlife habitat restoration and reduced bank erosion. The department proposes to use an experimental approach to habitat restoration by completing the construction in phases to study amphibian and native fish response to restoration treatments. It is projected that fish and amphibians will benefit from habitat improvements, while local farmers will gain protection of infrastructure and agricultural soils. This project has more than $1 million in match and this grant could support the equivalent of more than seven full-time employees for a year with more than $450,000 potentially going to wages and benefits.
Chehalis Basin Native Seeds	Center for Natural Lands Management	$	341,000	The Center for Natural Lands Management will use this grant to produce and provide at least 600 pounds of source-specified native seed for restoration and habitat enhancement work in oak, prairie, and grassland ecosystems in the Chehalis River watershed and to critical plant resources for the recovery of federally listed species including Mazama pocket gopher, Taylor's checkerspot butterfly, and golden paintbrush. This grant will leverage more than $900,000 of project

			funding and support the equivalent of eight full-time employees for a year with more than $249,000 going to wages and benefits.
Baldwin–Skamokawa Creek Community Watershed	Wahkiakum Conservation District	$90,000	The Wahkiakum Conservation District will use this grant to work in cooperation with the Baldwin family on a second phase project to help manage discharge through the Peterson Road Bridge under any bridge alignment scenario and create habitat diversity and improve channel stability to aid in the successful establishment of the forest shoreline buffer planted in 2009. Improvements to shoreline habitat, creek depth, and flows will benefit fall Chinook, chum, and coho salmon, steelhead, elk, deer, raptors, and other birds. This project has more than $7,500 in match and will provide short term support for ten local positions.
Kugel Creek Restoration with Improved Road and Trail Access	**Clallam County**	**$780,000**	Clallam County will use this grant to replace a failing, undersized, and partial fish-barrier culvert under Cooper Ranch Road with a buried bridge that is fully fish passable, providing full access to nearly 7 miles of habitat above the culvert in Kugel Creek. The creek is a large tributary in the Sol Duc River watershed. Physical properties of the channel will be restored allowing unimpeded fish passage and the passage of woody materials, benefitting several salmon species and resident fish. In addition to the fish habitat benefits, the bridge will allow for safer shoulders and the separation of the Olympic Discovery Trail (connecting Puget Sound to the Pacific Ocean) from the road, providing for safe vehicle use and eliminating conflicts between vehicles and trail users. This project will support the equivalent of four full-time employees for a year with more than

				$240,000 proposed to go to wages and benefits.
Goldinov–Wilson Creek	Wahkiakum Conservation District	$	309,000	The Wahkiakum Conservation District's will use this grant and collaborate with the Goldinov family to implement a stream restoration project on Wilson Creek (East Valley Skamokawa Creek), which will address all priority species, life stages, and limiting factors as identified in the region's salmon recovery plan while helping the landowners address their local resource concerns, with an emphasis placed on establishment of forest shoreline buffer and livestock exclusion fencing to restore watershed processes and maintain habitat long-term. The project also proposes to install a farm bridge that will serve two purposes: access during the restoration efforts and provide livestock a means to move between pastures when the exclusion fence is constructed. This project has $59,500 in match and will provide short-term support for 12 local positions.
Grayland Acquisition Project	Ducks Unlimited	$	500,000	Ducks Unlimited will use this grant to buy more than 1,750 contiguous acres of highly diverse and threatened habitats along the Washington Coast to protect a unique conservation property, restore the diverse habitats to the highest ecological functions and values, and create public use opportunities that are ecologically and economically compatible with the residents and visitors of the city of Westport, the Grayland community, and Grays Harbor County. Wildlife species using the property include waterfowl, marbled murrelet, bald eagle, Roosevelt elk, deer, black bear, and river otters. Community and human uses could be hunting, fishing, hiking, ecotourism, canoeing, biking, and passive wildlife observation. The

			requested $500,000 is part of a $4 million funding package projected to be needed to complete acquisition. An estimated four full-time employees could be created through the acquisition and development of the long-term planning and management.
Hungry Harbor Passage	Columbia River Estuary Study Task Force	$452,000	CREST will use this grant to complete a restoration project to improve fish passage and off-channel rearing habitat at Hungry Harbor, in Pacific County. The culvert replacement will improve fish passage to about 2 miles of upstream rearing and spawning habitat and increase tidal connection between upstream habitat at Hungry Harbor and the Columbia River estuary. Other habitat enhancements will be used to improve overall off-channel habitat quality and complexity for salmonids. This project has $485,000 in match and will support the equivalent of about four full-time employees for a year.
Moon Island Road Project	City of Hoquiam	$ 400,000	The City of Hoquiam will use this grant to conduct an analysis and design of the removal of the riprap and rubble from the shoreline and the potential to relocate Moon Island Road away from the shoreline about 30 feet and then implement the riprap and rubble removal portion of the results of the analysis. This stage will prepare the 500 feet of shoreline to be restored to a natural condition that will be more accessible and have better quality for both marine life and people. This project will help secure vehicle access to the Hoquiam sewer plant and could reduce the sewer plant's vulnerability to tidal flooding. This project will support the equivalent of more than two full-time employees for a year with more than $180,000 proposed to go to wages and benefits.

Fry Creek Restoration and Flood Reduction	City of Aberdeen	$	2,230,000	The City of Aberdeen will use this grant to carry out the Fry Creek Habitat Restoration and Flood Risk Reduction project to improve water quality, restore salmon habitat, correct barriers contributing to salmonid mortality, provide public open space, and reduce flood risk in Fry Creek where it flows through Aberdeen and Hoquiam. This project would not only benefit target salmonid species, but also the community and economy in a region suffering from long-term economic depression, rising flood insurance costs, and high unemployment. The restoration of Fry Creek was the impetus for the Cities of Aberdeen and Hoquiam to come together in an effort to develop a flood risk master plan (known as "Timberworks"). This project has more than $500,000 in match and this initial grant could support the equivalent of more than seven full-time employees for a year with more than $665,000 going to wages and benefits.
Upper Quinault River Restoration	Quinault Indian Nation	$	2,050,000	The Quinault Indian Nation will use this grant to treat up to 3 miles (500 acres) of river channel with engineered logjams, plant up to 400 acres of shoreline with more than 80,000 conifer and other plants, survey and treat non-native plants in up to 4 miles (800 acres) of water and shoreline habitat, and reduce the risks of erosion and channel migration for up to 16 private landowners and 1.2 miles of public roads. This large effort will aim to restore: salmon habitat for sockeye

	and other salmon species; productivity of sockeye and other salmon species; natural stability of the river channel; and side channel and terrace tributary habitats and mature forests. This project will support the equivalent of 20 full-time employees for a year with more than $1.5 million proposed to go to wages and benefits.