



Lead Entities: Community-Based Salmon Restoration



WASHINGTON STATE
RECREATION AND CONSERVATION OFFICE

Salmon Recovery
Funding Board



Salmon Recovery Funding Board

Mission

The Salmon Recovery Funding Board provides funding for elements necessary to achieve overall salmon recovery, including habitat projects and other activities that result in sustainable and measurable benefits for salmon and other fish species.

Board Members

Citizen Members

David Troutt, DuPont, Chair
Nancy Biery, Jefferson County
Bob Bugert, Wenatchee
Samantha “Sam” Mace, Spokane
Phil Rockefeller, Bainbridge Island

Agency Members

Conservation Commission
Department of Ecology
Department of Fish and Wildlife
Department of Natural Resources
Department of Transportation

Recreation and Conservation Office

Director

Kaleen Cottingham
Natural Resources Building
1111 Washington Street S.E.
Olympia, WA 98501

E-mail: info@rco.wa.gov
Telephone: (360) 902-3000
TTY: (360) 902-1996
FAX: (360) 902-3026
Web site: www.rco.wa.gov

Mailing Address:
PO Box 40917
Olympia, WA 98504-0917

To receive this publication in alternate formats, contact the Recreation and Conservation Office at (360) 902-3000, TTY: (360) 902-1996, or through e-mail at info@rco.wa.gov.

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Why Are Salmon in Danger?

For more than a century, as we settled the area and developed our cities, we damaged the rivers and bays that support and nourish native salmon.

In 1991, the federal government listed the first Pacific Northwest wild salmon as near extinction under the Endangered Species Act. By 2000, salmon numbers decreased so much that salmon listings under the Endangered Species Act affected three-quarters of the state.

The Endangered Species Act requires the federal government to develop recovery plans for listed salmon species. State law requires a statewide salmon recovery strategy. Together, these laws spurred Washington to create an unprecedented, grass-roots effort that helped the State lead one of the most complex recovery efforts in the nation.

Healthy Salmon, Healthy Washington

When Washington State recovers salmon populations, everyone benefits. Salmon are an important part of our economy, recreation, culture, and heritage.

Bait and tackle shops and charter fishing companies rely on the world-renowned Pacific salmon. Commercial and recreational fishing in Washington supports an estimated 16,000 jobs and \$540 million in personal income.

Salmon are the food we eat and the substance of family fishing memories. They are the traditions and sustenance of Native American tribes. They inspire our art. They are integral to other wildlife, which rely on them as food. In short, the iconic salmon are an essential part of our web of life and what it means to be a Washingtonian.

Communities Join Together to Save Salmon

In every community, all across Washington, people have joined together to help protect and recover wild salmon. School children, civic leaders, tribal members, farmers, businesses, lawmakers, landowners, local governments, nonprofits, and neighbors are working together to reverse the problems that have brought many wild salmon runs to the brink of extinction.

Serving at the hub are lead entities, which are community-based groups that develop strategies to restore salmon habitat and then recruit organizations to do the work. These partnerships, together with critical support from federal and state governments and regional salmon recovery organizations, have helped Washington remove barriers to fish migration, create habitat for salmon, reconnect rivers with floodplains to restore the natural process of habitat creation, demolish dams, and replant riverbanks. After more than a decade, Washington now is seeing some wild salmon populations improve.

Salmon Recovery Done Locally

Lead entities perform an essential role in salmon recovery in Washington State. Established in law (Revised Code of Washington 77.85), lead entities consist of a:

- Coordinator (usually a county, conservation district, or tribe)
- Committee of local, technical experts
- Committee of local citizens
- Grant administrator (county, conservation district, tribe, regional organization)

Lead entities are community-based groups that develop salmon habitat restoration strategies and recruit organizations to implement projects.

To create a lead entity, counties, cities, and tribal governments jointly designate, by resolution or by letters of support, the area for which a habitat project list is to be developed and the lead entity responsible for submitting the habitat project list to the Salmon Recovery Funding Board. The area must be based, at a minimum, on a Water Resource Inventory Area or any other mutually agreed upon area. A county, city, conservation district, special district, tribal government, regional recovery organization, or other entity may provide the administrative duties of a lead entity.

How do Lead Entities Function?

Each lead entity develops a salmon habitat restoration strategy to guide its selection of projects. The strategy prioritizes geographic areas and types of restoration and protection actions; identifies the needs of salmon; and identifies social, economic, and cultural factors that might affect salmon recovery.

Lead entities recruit grant applicants, who use regional recovery plans or lead entity strategies to develop projects. Grant applicants typically are regional fisheries enhancement groups, conservation districts, local governments, tribes, state agencies, community groups, land trusts, and others. Project applicants fill out applications and submit them to lead entities for consideration. Lead entities' technical and citizens committees evaluate and prioritize the projects.

Review Committees

The Lead Entity Technical Committee includes local experts knowledgeable about watershed, habitat, and fish conditions. They evaluate projects on their technical merits, benefits to salmon, and the certainty that the benefits will occur. The technical committee submits its evaluations of projects to the citizens committee.

The Lead Entity Citizens Committee includes representatives of counties, cities, conservation districts, tribes, environmental groups, businesses, landowners, citizens, volunteer groups, and regional fish enhancement groups. The citizens committee ensures that projects have community support to ensure success. Citizens committee members often are the best judges of the community's social, cultural, and economic values. The citizens committee ranks the projects and submits them through the lead entity or recovery region to the Salmon Recovery Funding Board for consideration.

Salmon Recovery Funding Board

Members of the Salmon Recovery Funding Board are appointed by the Governor to administer federal and state funding for salmon recovery. The board's evaluation occurs in two phases: The board reviews all projects for eligibility and then its technical review panel evaluates each project for technical merits, certainty of success, and to ensure there are benefits to salmon.

Habitat Work Schedule

Most lead entities use the online database Habitat Work Schedule as a planning tool for implementing salmon recovery plans. The Habitat Work Schedule communicates information to the public about salmon recovery actions and goals. The Habitat Work Schedule facilitates a cohesive approach to tracking, prioritizing, and sequencing actions to recover salmon. The Habitat Work Schedule makes it easy for project teams and the public to see how projects relate to each other, what needs to be done next for the fish and habitat, who to contact with questions, and how progress is being made to address factors limiting salmon recovery. Visit www.hws.ekosystem.us to view the Habitat Work Schedule.

Salmon Recovery Creates Jobs

Washington State's path to salmon recovery creates jobs for local communities. A \$1 million investment in watershed restoration directly results in 15 to 33 new or sustained jobs and has been shown to create \$2.2 million to \$2.5 million in total economic activity. Eighty percent of grant money is spent in the county where the project is located, helping families and businesses. We estimate that restoration projects funded through the Salmon Recovery Funding Board and Recreation and Conservation Office have resulted in nearly 7,500 new or sustained jobs, and created nearly \$763 million in economic activity since 1999.

Washington State's unprecedented, grass-roots effort has helped lead the way through one of the most complex recovery efforts in the nation.

Explanation of Terms

Water Resource Inventory Area (WRIA)

A WRIA is one of 62 areas that delineate watershed basins for state management purposes.

See a map at

www.ecy.wa.gov/services/gis/maps/wria/wria.htm.

Miles of Fish-Bearing Steams

Stream miles are from a 2008 Washington Department of Fish and Wildlife map of streams with known or possible presence of bull trout and salmon.

Miles of Marine Shoreline

Marine shoreline miles were obtained in 2008 from the Shared Strategy for Puget Sound and a Washington Department of Fish and Wildlife map.

Recreation and Conservation Office Funded Projects

Funding is for on-the-ground projects in the lead entity's geographic area, including those managed by others.

Funding comes from multiple state and federal sources:

- State and federal salmon recovery grants (state bonds and Pacific Coastal Salmon Recovery Fund)
- Puget Sound Acquisition and Restoration grants
- Estuary and Salmon Restoration Program grants
- Family Forest Fish Passage Program grants
- Puget Sound Chinook critical stock program grants

How Are Lead Entities Funded?

Lead entities are funded by the Washington State Legislature and the federal government through the Salmon Recovery Funding Board. Contracts distributing funding are administered by the Recreation and Conservation Office. Lead entities also receive funding from other organizations.

Lead entities engage a wide range of participants as project applicants, committee members, technical experts, and on-site volunteers.

Why Are Lead Entities Important to Salmon Recovery?

Making Smart Investments

- Lead entities develop strategies that guide where state and federal money is spent.
- Lead entities coordinate projects that spur local and rural economic development by creating and maintaining family wage jobs. Restoration funds invested by Washington State are leveraged 3 to 1.
- Lead entities help recover salmon populations necessary for strong recreational and commercial fishing.

Making Sure Only the Top Priority Projects are Funded

- Lead entities prioritize projects to maximize the public's investment. They use habitat strategies and priorities in their recovery plans to guide project lists. This approach ensures that projects will be done in a sequence that produces habitat capable of sustaining healthy salmon populations.
- Lead entities combine local science and social values to identify salmon recovery projects. The local technical committee and citizens committees ensure that science and community priorities are complementary and that the highest watershed priorities rise to the top.

Involving the Community

- Lead entities involve a wide range of participants as project applicants, committee members, technical experts, and on-site volunteers. They bring together tribes, federal and state agencies, local governments, citizens, non-profits, businesses, and technical experts to make local decisions. Involving these diverse groups helps lead entities better understand the needs of fish and how to best protect and restore habitat.



GEOFFREY McMICHAEL

CITIZEN COMMITTEE

Julie Balmelli-Powe

Lewis County citizen

Bonnie Canaday

City of Centralia

Terry Harris

City of Chehalis

Jim Hill

Lewis County citizen

Kathy Jacobson

Chehalis Basin Education Consortium

Kahle Jennings

City of Centralia

Mark Swartout

Thurston County citizen

Bruce Treichler

Grays Harbor County citizen

Patrick Wiltzius

City of Chehalis

TECHNICAL COMMITTEE

Bob Amrine

Lewis County Conservation District

Jane Atha

Chehalis Basin Partnership

Miles Batchelder

Washington Coast Sustainable

Salmon Partnership

Bob Burkle

Washington Department of Fish

and Wildlife

Lonnie Crumley

Chehalis Basin Fisheries Task Force

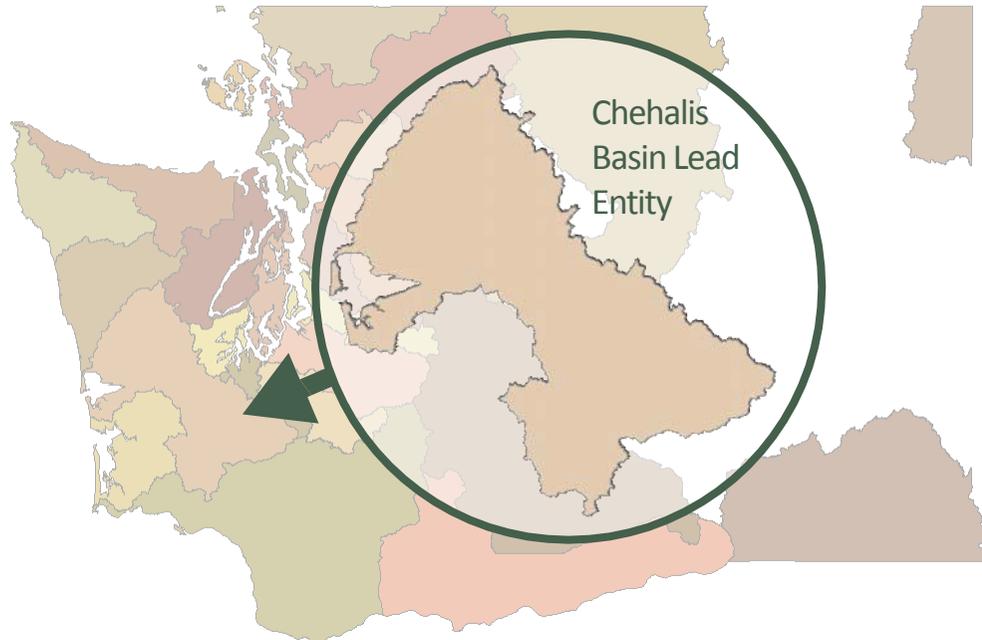
Eric Delvin

The Nature Conservancy

Caprice Fasano

Quinault Indian Nation

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Chehalis Basin Lead Entity

Area:

2,600 square miles

Population: 140,000

Fish-bearing Streams:

3,300 miles

Marine Shoreline:

14 miles

Water Resource

Inventory Areas:

22, 23

Congressional

Districts: 3, 6, 10

Legislative Districts:

19, 20, 22, 24, 35

Recreation and

Conservation Office

Funded Projects:

\$15.9 million,

141 projects,

\$7.4 million in

matching resources.

Located in western Washington, the Chehalis River basin is the second largest watershed in the state.

Within the 2,600 square miles that make up the Chehalis basin, there are more than 3,300 miles of rivers and streams.

The Chehalis River starts in the Willapa Hills and flows downstream to the Grays Harbor estuary and the Pacific Ocean. Throughout the Chehalis basin, forestlands dominate the landscape, while agricultural and urban areas also are common. The Chehalis basin has more than 140,000 residents spread throughout eight counties (Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Thurston, and Wahkiakum) and one tribal reservation (The Confederated Tribes of the Chehalis Reservation). Waters of the Chehalis River basin and Grays Harbor estuary support a variety of fish and wildlife species.

The Chehalis Basin Lead Entity is comprised of the habitat work group, a local technical review team, and a citizen advisory group. Together they develop, plan, and prioritize restoration and preservation projects, using *The Chehalis Basin Salmon Habitat Restoration and Preservation Strategy for WRIA 22 and 23*.



LEAD ENTITY COORDINATOR

Kirsten Harma

kharma@chehalisribe.org



Davis Creek, after restoration



Hoquiam surge plain acquisition

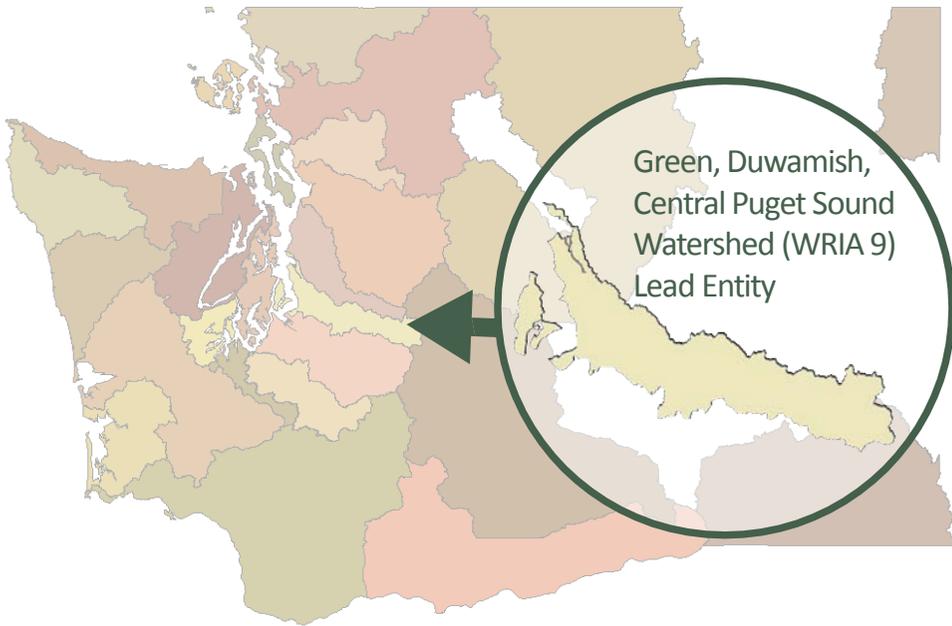
TECHNICAL COMMITTEE *(continued from previous page)*

- Jamie Glasgow**
Wild Fish Conservancy
- Gavin Glore**
Mason Conservation District
- Chanele Holbrook**
Heernett Environmental Foundation
- Bob Metzger**
U.S. Forest Service
- Mike Nordin**
Grays Harbor Conservation District
- Miranda Plumb**
U.S. Fish and Wildlife Service
- Margaret Rader**
Chehalis River Council
- David Rountry**
Washington Department of Ecology
- Janet Strong**
Chehalis River Basin Land Trust
- Ann Weckback**
Lewis County
- Mark White**
Confederated Tribes of the Chehalis Reservation

PAST AND CURRENT PROJECT SPONSORS

- Capitol Land Trust
- Chehalis Basin Fisheries Task Force
- Chehalis River Basin Land Trust
- City of Centralia
- City of Hoquiam
- Columbia-Pacific Resource Conservation and Economic Development District
- Confederated Tribes of the Chehalis Reservation
- Grays Harbor Conservation District
- Grays Harbor County
- Heernett Environmental Foundation
- Lewis County
- Lewis County Conservation District
- Mason Conservation District
- Mason County
- PB Lumber
- Quinalt Indian Nation
- The Nature Conservancy
- Thurston Conservation District
- Thurston County
- Washington Department of Fish and Wildlife
- Washington Department of Natural Resources
- Wild Fish Conservancy





WATERSHED ECOSYSTEM FORUM

- Marlla Mhoon,* Co-chair**
City of Covington
 - Bill Peloza,* Co-chair**
City of Auburn
 - Chris Andersen**
City of Auburn
 - Brian Anderson, Charlie Keller**
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 - Terry Anderson, Kathryn Campbell***
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 - Jay Covington, Ron Straka**
City of Renton
 - Bob Edgar,* Nancy Tosta***
City of Burien
 - Bob Everitt, Stewart Reinbold,**
Washington Department of Fish and Wildlife
 - Dave Garland, Joan Nolan**
Washington Department of Ecology
 - Michael Garrity**
American Rivers
 - Matt Goehring, Cindy Rathbone**
Washington Department of Natural Resources
- (continued on next page)*

Green, Duwamish, Central Puget Sound Watershed (WRIA 9) Lead Entity

Area: 664 square miles
Population: 703,713
Fish-bearing Streams: 280 miles
Marine Shoreline: 97 miles
Water Resource Inventory Area: 9
Congressional Districts: 7, 8, 9
Legislative Districts: 5, 11, 33, 34, 36, 47
Recreation and Conservation Office Funded Projects: \$20 million, 49 projects, \$9.2 million in matching resources

Making our Watershed Fit for a King
 Local governments, tribes, businesses, environmental interests, and state and federal agencies are:

- Achieving recovery of the Green River Chinook salmon population.
- Improving the ecological health of the watershed.
- Contributing to the recovery of Puget Sound.

Since adoption of the WRIA 9 salmon habitat plan in 2005, significant progress has been made on 54 of 162 high priority salmon habitat projects and support of many stewardship, education, and outreach programs. However, much remains to be done. Like the shared effort to develop the habitat plan, good stewardship of the watershed and its salmon will rely on continued cooperation and shared responsibility.

The Green River originates in the Cascade Mountain range and flows over 82 miles before it becomes the Duwamish River, about 11 miles from its mouth, where the Black and Cedar Rivers once entered. The Duwamish River provides more than 9 miles of freshwater-saltwater mixing zone as a transition zone for juvenile salmon before flowing into Elliott Bay. The watershed includes the Green-Duwamish watershed, mainland shorelines, and Vashon and Maury Islands. Green-Duwamish Chinook populations spawn in the watershed, while juveniles and adults use the shorelines. Salmon species present include Chinook, chum, coho, and pink salmon and winter steelhead.



LEAD ENTITY COORDINATOR

Doug Osterman *(far right)*
 (206) 477-4793
doug.osterman@kingcounty.gov



The scenic middle Green River



Duwamish estuary transition zone

WATERSHED ECOSYSTEM FORUM

(continued from previous page)

- Mikhaila Gonzales, Max Prinsen**
Save Habitat and Diversity of Wetlands (SHADOW)
- Jimmy Griess, Dianna Quinn**
City of Algona
- Jim Haggerton,* Dennis Robertson***
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King Conservation District
- Mike Mactutis, Dana Ralph***
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- Chris McMeen, Greg Volkhardt**
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- Erika Morgan,* Aaron Nix**
City of Black Diamond
- James Rasmussen**
Green-Duwamish Watershed Alliance
- Gordon Thomson**
U.S. Army Corps of Engineers
- Alex Wilford**
Master Builders Association
** Elected officials*

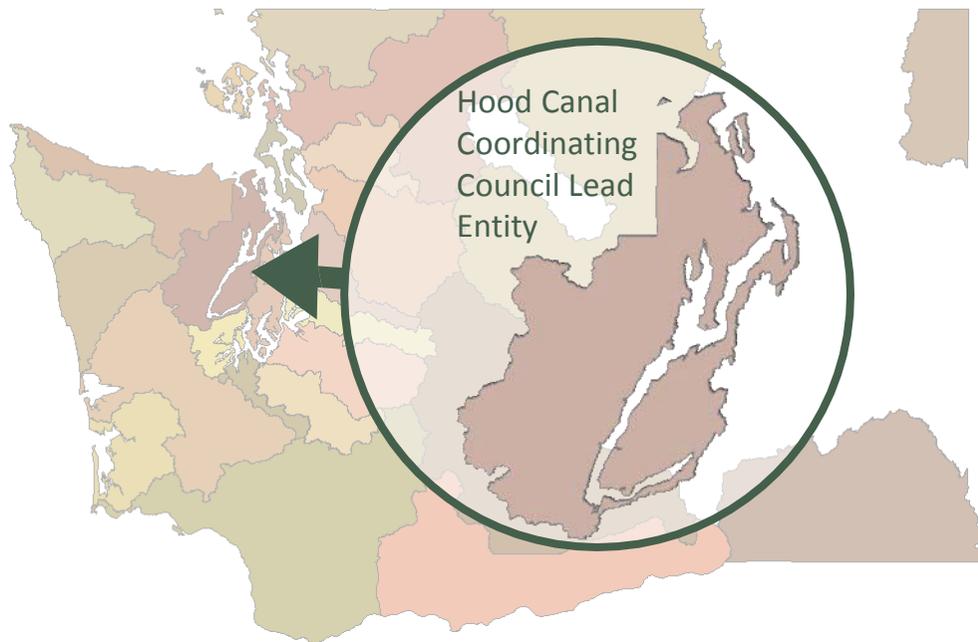
TECHNICAL ADVISORY GROUP

- Dhira Brown**
EarthCorps
- Andrea Cummins**
City of Tukwila
- Larry Fisher**
Washington Department of Fish and Wildlife
- Kollin Higgins**
King County
- Antonia Jindrich**
Mid Sound Fisheries Enhancement Group
- Matt Knox**
City of Kent
- Ryan Larson**
City of Tacoma
- Katherine Lynch**
Seattle Public Utilities
- Kathy Minch**
Seattle Public Utilities
- Joan Nolan**
Washington Department of Ecology
- Elissa Ostergaard**
WRIA 9
- Tyler Patterson**
City of Tacoma

PAST AND CURRENT PROJECT SPONSORS

- | | |
|------------------|----------------------------|
| City of Auburn | City of Tukwila |
| City of Bellevue | Forterra |
| City of Burien | King Conservation District |
| City of Kent | King County |
| City of Seattle | Muckleshoot Tribe |
| | Wild Fish Conservancy |





Hood Canal Coordinating Council Lead Entity

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Phil Johnson, commissioner
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Mason County

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Randy Neatherlin, commissioner
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Jeromy Sullivan, tribal council

Skokomish Indian Tribe

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CITIZENS ADVISORY GROUP

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Jefferson County

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Port Gamble S’Klallam Tribe, Point No Point Treaty Council

Thom Johnson

Skokomish Indian Tribe

Ron Figlar-Barns
Alex Gouley

Environmental Group, Mason Citizen

Monica Harle

Shellfish Industry

Chris Jones

Area: 940,000 acres
Population: 71,391
Fish-bearing Streams:
542 miles
Marine Shoreline:
328 miles
**Water Resource
Inventory Areas:**
14b, 15, 16, 17
**Congressional
Districts:** 2, 6
Legislative Districts:
10, 23, 24, 26, 35
**Recreation and
Conservation Office
Funded Projects:**
\$41.3 million,
179 projects,
\$26.6 million in
matching resources

Hood Canal is a natural, glacier-carved fjord more than 60 miles long, which forms the westernmost waterway of the Puget Sound basin. The basin is largely rural, is dominated by forestry, is a mecca for shellfish, and has been called the “Jewel of Puget Sound.”

The Hood Canal Coordinating Council is a watershed-based council of governments, with members from Jefferson, Kitsap, and Mason Counties and the Port Gamble S’Klallam and Skokomish Tribes. The council works with partners, community groups, and citizens to advocate for and implement regionally and locally appropriate actions to protect and enhance Hood Canal’s environmental and economic health.

The council is the state-designated regional salmon recovery organization for *Hood Canal & the Eastern Strait of Juan de Fuca Summer Chum Salmon Recovery Plan*, and serves as the lead entity for Hood Canal. The lead entity coordinates efforts of various groups including the Citizens Advisory Group, the council’s board of directors, and the Technical Advisory Group. We facilitate implementation of three salmonid recovery plans, including summer chum salmon, Puget Sound Chinook salmon, and Puget Sound bull trout. Priority strategies include ensuring the long-term protection of critical salmon habitats; restoring natal estuaries, streams, and streamside areas; and integrating actions and programs such as county critical areas ordinances and co-managed hatchery management plans.



LEAD ENTITY COORDINATOR

Alicia Olivas
(360) 626-1633

aolivas@hccc.wa.gov



Gavin Glore of Mason Conservation District transports native trees and shrubs for planting on the Skokomish estuary. (Photograph by Mason Conservation District.)

Hood Canal Coordinating Council 2011 Summer Chum Symposium.



Before: This site is at the estuary of Snow and Salmon Creeks in Discovery Bay, Jefferson County. A now defunct log peeling and veneer making operation had filled the mudflats and salt marsh with 25,000 cubic yards of wood waste that was leaching toxic contaminants into critical habitat for summer chum salmon and other salmonids. (Photograph by Washington Department of Ecology.)



After: The North Olympic Salmon Coalition removed the wood waste and restored 5 acres of estuary while eliminating the source of toxic contaminants. Monitoring of the excavated channels indicates very high juvenile summer chum salmon use. (Photograph by North Olympic Salmon Coalition.)

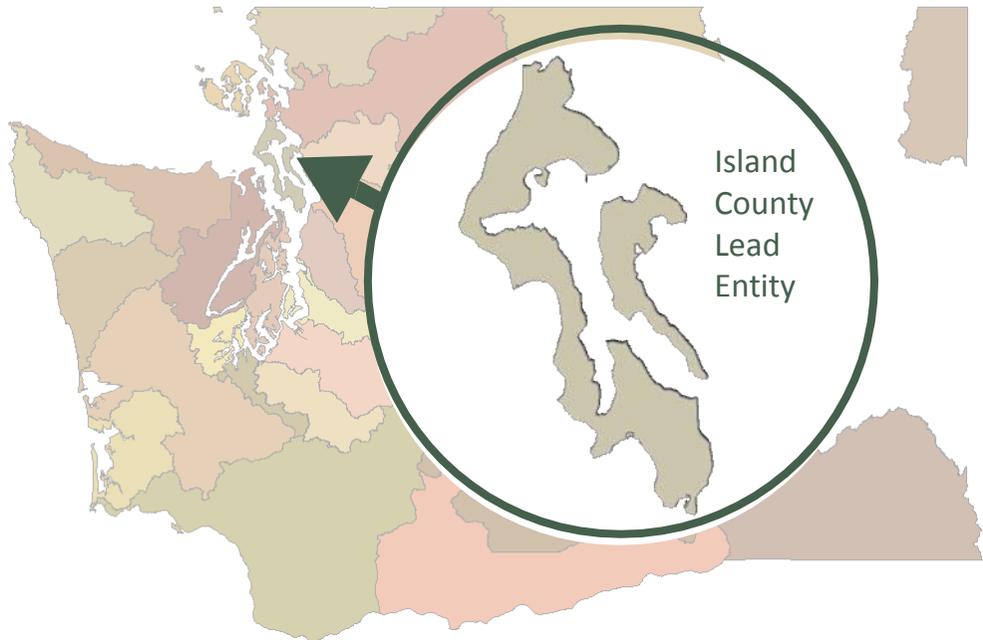
TECHNICAL ADVISORY GROUP

- Kathlene Barnhart**
Kitsap County
- Carrie Cook-Taber**
U.S. Fish and Wildlife Service
- Hans Daubenberger**
Port Gamble S’Klallam Tribe
- Matt Kowalski**
Skokomish Indian Tribe
- Randy Lumper**
Skokomish Indian Tribe
- Marc McHenry**
U.S. Forest Service
- Tami Pokorny**
Jefferson County
- Jody Walters**
National Marine Fisheries Service
- Chris Waldbillig**
Washington Department of Fish and Wildlife
- Abby Welch**
Port Gamble S’Klallam Tribe

PAST AND CURRENT PROJECT SPONSORS

- Concurrent Technologies Corporation
- Forterra
- Great Peninsula Conservancy
- Hood Canal Coordinating Council
Lead Entity
- Hood Canal Salmon
Enhancement Group
- Jamestown S’Klallam Tribe
- Jefferson County
- Jefferson County Conservation District
- Jefferson Land Trust
- Kitsap Conservation District
- Kitsap County
- Long Live the Kings
- Mason Conservation District
- Mason County
- North Olympic Salmon Coalition
- Northwest Straits Marine
Conservation Foundation
- Northwest Watershed Institute
- Point No Point Treaty Council
- Port Gamble S’Klallam Tribe
- Skokomish Tribe
- The Nature Conservancy
- Washington Department of Fish
and Wildlife
- Washington State Parks and
Recreation Commission
- Wild Fish Conservancy
- Wild Olympic Salmon





PAUL VECSEI

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District 3 Camano
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- Don Lee**
District 1 Central/South Whidbey
- John Lovie**
District 1 Central/South Whidbey
- Dave Thomas**
District 2 Oak Harbor
- Al Williams**
District 2 Oak Harbor
- Vacant**
District 2 Oak Harbor

Island County Lead Entity

Area: 133,120 acres
Population: 78,000
Fish-bearing Streams: 30.3 miles
Marine Shoreline: 213 miles
Water Resource Inventory Area: 6
Congressional District: 2
Legislative District: 10
Recreation and Conservation Office
Funded Projects: \$9.5 million, 36 projects, \$6.2 million in matching resources.

Island County provides the most shoreline rearing and resting areas that juvenile salmon headed to the ocean first use when coming from the Skagit, Snohomish, and Stillaguamish Rivers. All three species listed as threatened (Chinook, bull trout, and Hood Canal summer chum), as well as other salmon species and the fish they eat, use habitat within the Island County watershed. Water Resource Inventory Area 6’s salmon recovery plan focuses on protection first, then restoration of functioning near-shore processes and habitats. Other goals focus on fostering an engaged, supportive, and knowledgeable community to support and encourage recovery efforts.



LEAD ENTITY COORDINATOR

Dawn Pucci
 (360) 678-7916
D.Pucci@co.island.wa.us



Crescent Harbor salt marsh 2 years after being opened to tidal inundation after being diked for 100 years



A site visit by the lead entity and Salmon Recovery Funding Board Review Panel after completion of Cornet Bay Areas 4, 6, and 7 restoration



Island County Beach Watchers beach seining in support of monitoring for a multi-phase Cornet Bay restoration project

TECHNICAL COMMITTEE

Dan Anderson

Orca Network

Rick Baker

Whidbey Watershed Stewards

Barbara Bennett

Washington State University
Extension

Barbara Brock

Water Resource Advisory
Committee

Tess Cooper

Island County

Gary Ehrenfeld

Water Resource Advisory
Committee

Ryan Elting

Whidbey Camano Land Trust

Rob Hallbauer

Whidbey Island and Snohomish
Conservation Districts

Dan Matlock

Marine Resources Committee

Eric Mickelson

Skagit River System Cooperative

Francesca Perez

Stillaguamish Tribe of Indians

Jim Somers

Skagit Fisheries Enhancement Group

Doug Thompson

Washington Department of Fish
and Wildlife

Micah Wait

Wild Fish Conservancy

Todd Zackey

Tulalip Tribes

**PAST AND CURRENT
PROJECT SPONSORS**

Island County

Island County Marine

Resources Committee

Northwest Straits Marine

Conservation

Skagit Fisheries Enhancement Group

Skagit River System Cooperative

The Nature Conservancy

Whidbey Camano Land Trust

Whidbey Watershed Stewards

Wild Fish Conservancy



U.S. FISH AND WILDLIFE SERVICE

CITIZEN COMMITTEE

Norris Boyd

Citizen

Becca Cory

Citizen

Leonard Davaz

Citizen

Ed Hamilton

Citizen

John Hankey

Citizen

Carol Mack

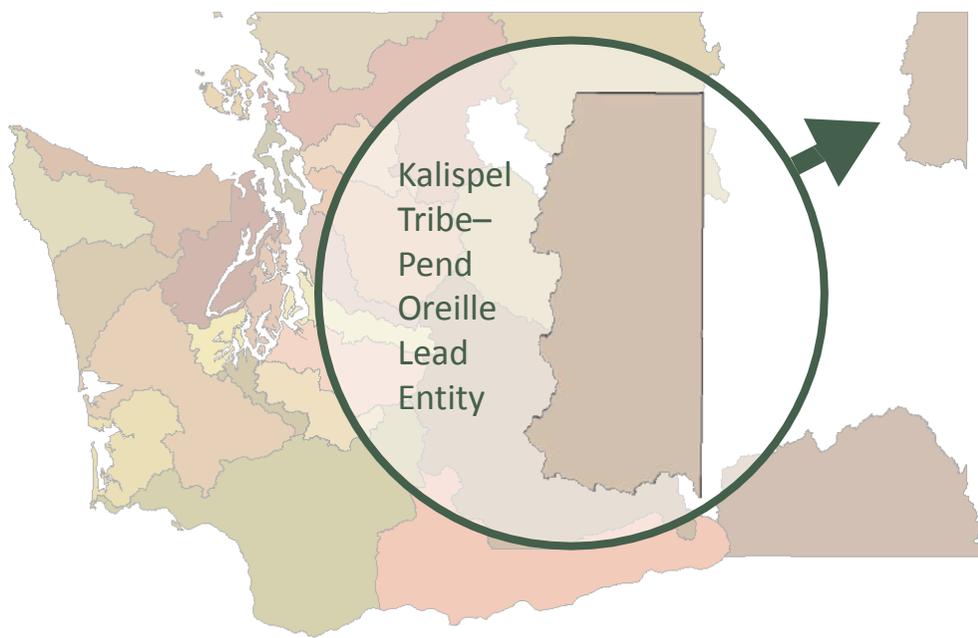
Washington State University Extension

Tom Petrie Jr.

Pend Oreille Sportsmen’s Club

Steve Wilson

Citizen



Kalispel Tribe–Pend Oreille Lead Entity

Area: 831,997 acres

Population: 12,936

Fish-bearing Streams:

366 miles

Marine Shoreline:

None

Water Resource

Inventory Area: 62

Congressional

District: 5

Legislative District: 7

Recreation and

Conservation Office

Funded Projects:

\$7.5 million,

66 projects,

\$1.3 million in

matching resources

Water Resource Inventory Area 62, located in the northeast corner of Washington, encompasses nearly 832,000 acres of the Pend Oreille, Priest River, and Salmo drainages. The Pend Oreille River is the second largest river in the state and flows 155 miles from its headwaters at Lake Pend Oreille to the Columbia River confluence in Canada.

Being above Grand Coulee and Chief Joseph Dams, migrating Pacific salmon and steelhead no longer have access to Water Resource Inventory Area 62. Therefore, we focus on habitat protection and restoration for native salmon species such as Endangered Species Act-listed bull trout, which are threatened with extinction, and westslope cutthroat trout, which are designated as a “species of concern” by the U.S. Fish and Wildlife Service.

We facilitate the Pend Oreille Salmonid Recovery Team, which consists of Technical and Citizen Advisory Groups. The recovery team developed a strategy that uses the best available science, local knowledge, and technical expertise to prioritize actions to improve habitat and populations of wild salmon. Priority actions include identifying and addressing fish passage and screening issues, bank stabilization, relocation or obliteration of streamside roads, and non-native fish removal. Using cooperative funding strategies and partnerships, the recovery team will continue to implement restoration actions that approach the goal of wild salmon recovery in our watershed.

Vision statement: We envision a healthy watershed that provides for the recovery of native salmonids, while also providing ecological, cultural, recreational, and socio-economic benefits.



LEAD ENTITY COORDINATOR

Todd Andersen

(509) 447-7245

tandersen@knrd.org



Advisory groups, project sponsors, and Salmon Recovery Funding Board Review Panel members discussing proposed projects in the field



(Left and Below) Before and after: The Cedar Creek Fish Passage Project in Pend Oreille River watershed restored fish passage to 12 miles of proposed bull trout critical habitat by removing Cedar Creek Dam, reconstructing the stream channel, and restoring streamside plants. Other benefits of the project include restored stream channel form and function, cooler water temperatures below the dam, and elimination of risk to public health and safety from potential dam failure.



TECHNICAL COMMITTEE

Bill Baker

Washington Department of Fish and Wildlife

Eric Berntsen

Kalispel Tribe of Indians

Erin Britton-Kuttel

U.S. Fish and Wildlife Service

Ted Carlson

Stimson Lumber Company

Andy Haas

Seattle City Light

Rob Lawler

U.S. Forest Service, Colville National Forest

Jeff Lawlor

Washington Department of Fish and Wildlife

George Luft

Pend Oreille County

Joe Maroney

Kalispel Tribe of Indians

Todd McLaughlin

Pend Oreille County

Brian Peck

U.S. Forest Service, Colville National Forest

Wade Pierce

Stimson Lumber Company

Aaron Prussian

U.S. Forest Service, Idaho Panhandle National Forest

Don Ramsey

Pend Oreille County

Sean Stash

U.S. Forest Service, Idaho Panhandle National Forest

PAST AND CURRENT PROJECT SPONSORS

Confederated Tribes of the Colville Reservation

Ferry Conservation District

Kalispel Tribe of Indians

Leonard Davaz

Pend Oreille Conservation District

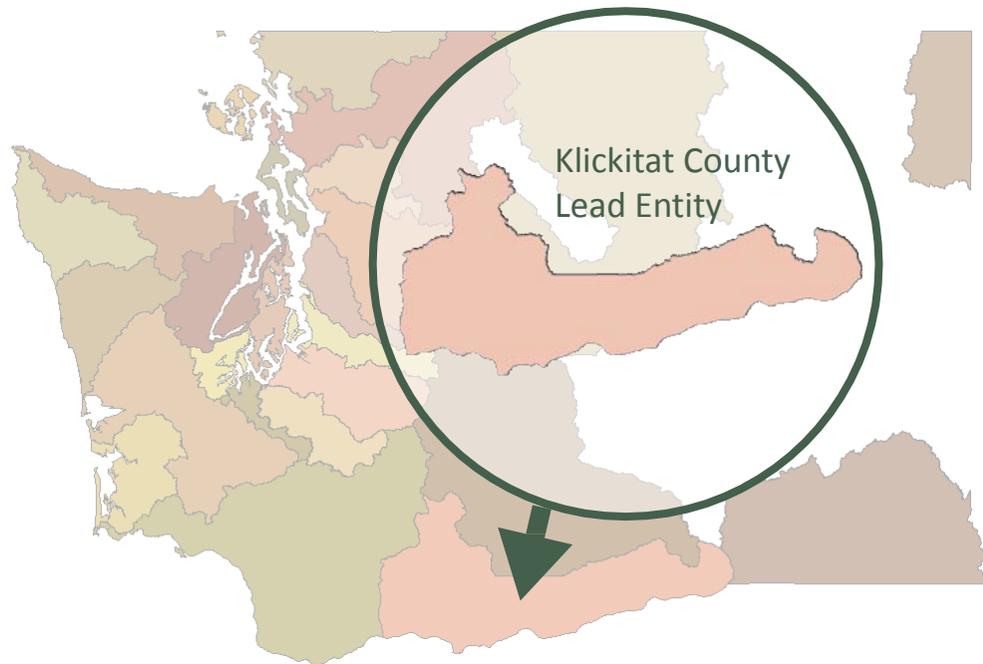
Pend Oreille County

Spokane Conservation District

Stevens County Conservation District

Town of Lone

Washington Department of Fish and Wildlife



CITIZEN COMMITTEE

- Ken Bales**
Klickitat County Land and Natural Resources Advisory Committee
- Lance Beckman**
Underwood Conservation District
- Cole Cameron**
Cattlemen interests
- Kelly Clothier**
Underwood Conservation District
- Todd Collins**
Recreation interests
- Adam Fahlenkamp**
Central Klickitat Conservation District
- Marc Harvey**
Mid-Columbia Fisheries Enhancement Group
- James Kiona**
Tribal fisherman, Confederated Tribes and Bands of the Yakama Nation
- Randy Knowles**
Timber interests
- Jay Letto**
Environmental interests
- Dan Lichtenwald**
Environmental interests
- Doug Miller**
Mid-Columbia Fisheries Enhancement Group
- Don Starkin**
Sport fishing interests
- Don Struck**
Board of County Commissioners

Klickitat County Lead Entity

- Area:**
1.25 million acres
- Population:** 100,000
- Fish-bearing Streams:**
1,109 miles
- Marine Shoreline:**
None
- Water Resource Inventory Areas:**
29b, 30, 31
- Congressional Districts:** 3, 4
- Legislative Districts:**
14, 15, 16
- Recreation and Conservation Office**
- Funded Projects:**
\$9 million,
54 projects,
\$2.6 million in
matching resources

The Klickitat County Lead Entity addresses salmon habitat recovery through locally-based efforts that include public involvement and the integration of sound scientific information. The mission of the lead entity is to support salmon recovery by identifying credible and fundable habitat protection and enhancement projects. This process will support programs that produce sustainable and measurable benefits for fish and their habitat.

The Klickitat County Lead Entity area lies in south-central Washington. It includes the Columbia River and its tributaries downstream of the confluence of the Yakima River to, and including, the White Salmon River. The lead entity area includes part of the Lower Columbia River Salmon Recovery Region and the Middle Columbia River Salmon Recovery Region, but is not under the purview of a regional organization.

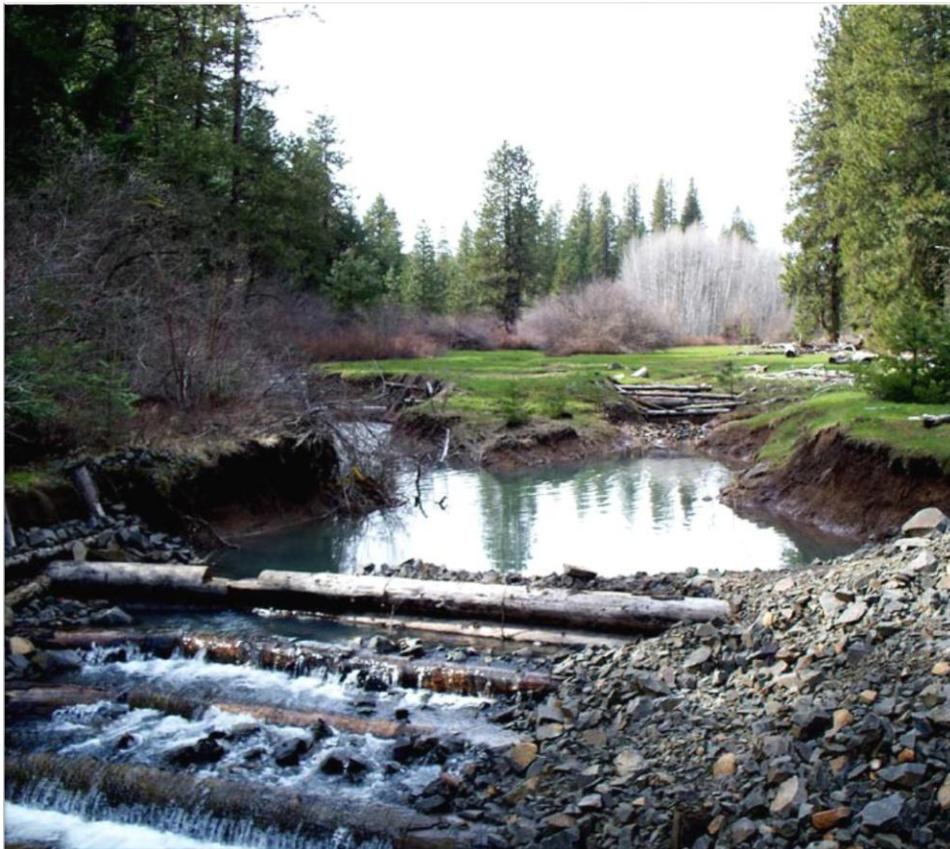
Historic human activities have reduced habitat complexity, connectivity, access, water quality, and shoreline function in the Columbia River basin, causing a decline in salmon and steelhead. The Klickitat County Lead Entity, along with its salmon recovery partners, strives to protect high quality, valuable existing habitat and restore damaged habitat.



LEAD ENTITY COORDINATOR
Jacob Anderson, (509) 773-2410
JacobA@klickitatcounty.org



A section of a floodplain restoration project, a project flagged by the Salmon Recovery Funding Board as noteworthy, on the Klickitat River. The project is protecting and restoring parts of the river that provide critical spawning, migrating, and rearing habitat for steelhead, which are listed as threatened with extinction under the federal Endangered Species Act, and Chinook and coho salmon.



A portion of a completed restoration project to address erosion on Simmons Creek, a tributary of the White Salmon River.

TECHNICAL COMMITTEE

Joe Zendt, Chair

Confederated Tribes and Bands of the Yakama Nation

Brady Allen

U.S. Geological Survey

Will Conley

Confederated Tribes and Bands of the Yakama Nation

Diane Driscoll

National Marine Fisheries Service

Jill Hardiman

U.S. Geological Survey

Jim Hill

Central Klickitat

Conservation District

Amber Johnson

Washington Department of Fish and Wildlife

David Lindley

Confederated Tribes and Bands of the Yakama Nation

Loren Meagher

Central Klickitat

Conservation District

Margaret Neuman

Mid-Columbia Fisheries

Enhancement Group

Dan Richardson

Underwood Conservation District

Tova Tillinghast

Underwood Conservation District

PAST AND CURRENT PROJECT SPONSORS

Central Klickitat

Conservation District

Columbia Land trust

Confederated Tribes and

Bands of the Yakama Nation

Eastern Klickitat

Conservation District

Klickitat County

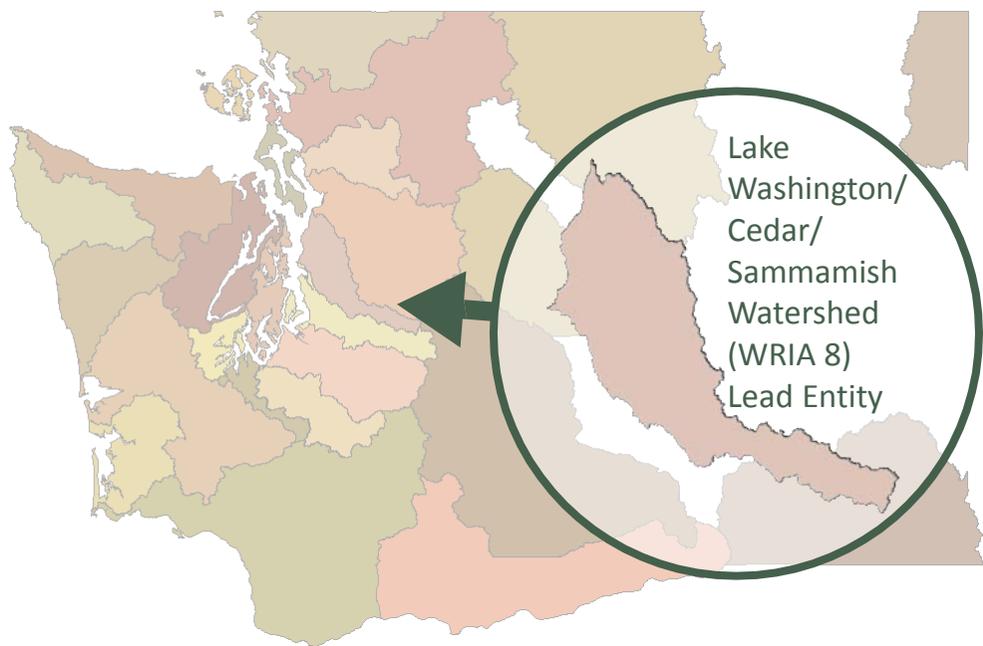
Mid-Columbia Fisheries

Enhancement Group

Northwest Service Academy

Underwood Conservation District

Washington Department of Fish and Wildlife



PAUL VECSEI
WRIA 8 SALMON RECOVERY COUNCIL
Larry Phillips,* Chair
 King County
Eric Adman
 Sno-King Watershed Council
Jay Arnold*
 City of Kirkland
Eileen Barber*
 City of Issaquah
Bruce Bassett*
 City of Mercer Island
Tor Bell
 Mountains to Sound Greenway Trust
Richard Bonewits
 Cedar River Council
Diane Buckshnis*
 City of Edmonds
Steve Buri*
 City of Newcastle
Vince Cavaleri*
 City of Mill Creek
Don Davidson
 Long Live the Kings
Mike Dixon
 Alderwood Water and
 Wastewater District
Bruce Dodds*
 City of Clyde Hill
Nancy Eklund
 The Boeing Company
Ted Frantz*
 Town of Hunts Point
Dave Garland, Joan Nolan
 Washington Department of Ecology
Don Gerend, Tom Odell*
 City of Sammamish
(continued on next page)

Lake Washington/Cedar/Sammamish Watershed (WRIA 8) Lead Entity

Area:
692 square miles

Population:
1.4 million

Fish-bearing Streams:
359 miles

Marine Shoreline:
38 miles

Water Resource Inventory Area: 8

Congressional Districts: 1, 2, 7, 8, 9

Legislative Districts: 1, 5, 11, 13, 21, 23, 31, 32, 36, 37, 38, 41, 43, 44, 45, 46, 47, 48

Recreation and Conservation Office

Funded Grants:
\$18.4 million,
61 projects,
\$14 million in
matching resources

Local Partners Working Together to Conserve and Restore Salmon Habitat.

Since 2000, the Lake Washington/Cedar/Sammamish Watershed (WRIA 8) Salmon Recovery Council has worked to ensure that salmon continue to return to our watershed each fall. This locally driven process involves 28 local governments, citizens, community groups, state and federal agencies, and businesses working toward the shared goal of making WRIA 8 – the most populated watershed in Washington – a place where salmon and people can live together.

The watershed’s primary connection to Puget Sound is through the Hiram M. Chittenden (Ballard) Locks, and the watershed’s saltwater shoreline extends from Seattle to Everett. Salmon recovery focuses on the needs of the Cedar River and Sammamish River Chinook populations, as well as the migratory and rearing corridors required by these populations. The WRIA 8 Chinook Salmon Conservation Plan contains more than 1,200 capital and programmatic actions, which were identified through scientific studies and an extensive collaborative process. The plan also contains watershed-wide priorities such as protecting forests and shorelines, reducing impervious surfaces, managing storm water flows, protecting and improving water quality, and conserving water. What we do to recover salmon in this watershed is an important component of restoring Puget Sound.

LEAD ENTITY COORDINATORS

Jason Mulvihill-Kuntz, (206) 477-4780

jason.mulvihill-kuntz@kingcounty.gov

Jason Wilkinson, (206) 477-4786

jason.wilkinson@kingcounty.gov





(Top to bottom) Before, during, and after photographs of the removal of a 900-foot levee to reconnect the Cedar River to 40 acres of floodplain. The project restores off-channel habitat and alleviates flood risks resulting from channel confinement.



WRIA 8 SALMON RECOVERY COUNCIL (continued from previous page)

- Noel Gilbrough**
Mid Sound Fisheries Enhancement Group
- Mike Grady**
National Marine Fisheries Service
- Bill Knutsen and Jessica Saavedra**
King Conservation District
- Peggy Marcus**
U.S. Army Corps of Engineers
- Doug McCardle***
City of Mountlake Terrace
- Hank Myers***
City of Redmond
- Carla Nichols**
Town of Woodway
- Dana Parnello***
City of Maple Valley
- Larry Phillips***
King County
- Mark Phillips***
City of Lake Forest Park
- Ed Prince***
City of Renton
- Janet Pritchard**
Friends of the Cedar River Watershed
- Stewart Reinbold**
Washington Department of Fish and Wildlife
- Andy Rheäume***
City of Bothell
- Jesse Salomon***
City of Shoreline
- Kshama Sawant***
City of Seattle
- Carl Scandella***
Town of Yarrow Point
- Gary Schulz**
Washington Association of Sewer and Water Districts
- Gary Smith**
Water Tenders-Trout Unlimited
- Richard Sowa**
Friends of the Issaquah Salmon Hatchery
- John Stokes***
City of Bellevue
- Brian Sullivan***
Snohomish County
- Frank Urabeck**
Citizen
- Allen Van Ness***
City of Kenmore
- Paula Waters***
City of Woodinville

* Mayor or councilmember

TECHNICAL COMMITTEE

- Scott Stolnack, Chair**
WRIA 8 technical coordinator
- Tom Hardy**
City of Redmond
- Cyndy Holtz**
City of Seattle
- Christa Heller**
Washington Department of Fish and Wildlife
- Frank Leonetti**
Snohomish County
- Andy Loch**
City of Bothell
- Gino Lucchetti**
King County
- Kit Paulson**
City of Bellevue
- Kerry Ritland**
City of Issaquah

PAST AND CURRENT PROJECT SPONSORS

- Adopt A Stream Foundation
- City of Bellevue
- City of Bothell
- City of Edmonds
- City of Everett
- City of Issaquah
- City of Renton
- City of Seattle
- King County
- Muckleshoot Tribe
- Renton Lions Club
- Snohomish County
- Sno-King Watershed Council
- Washington Department of Natural Resources





PAUL VECSEI

BOARD MEMBERS

Tom Linde, Chair

Skamania County citizen

Taylor Aalvik

Cowlitz Indian Tribe

Mike Backman

Wahkiakum County commissioner

Bob Hamlin

Skamania County commissioner

Irene Martin

Wahkiakum County citizen

Tom Mielke

Clark County councilor

Todd Olson

Hydro-electric representative

Gary Stamper

Lewis County commissioner

Don Swanson

Southwest Washington environmental representative

Randy Sweet

Cowlitz County citizen and private property representative

Dean Takko

Washington State Legislature

Charles TenPas

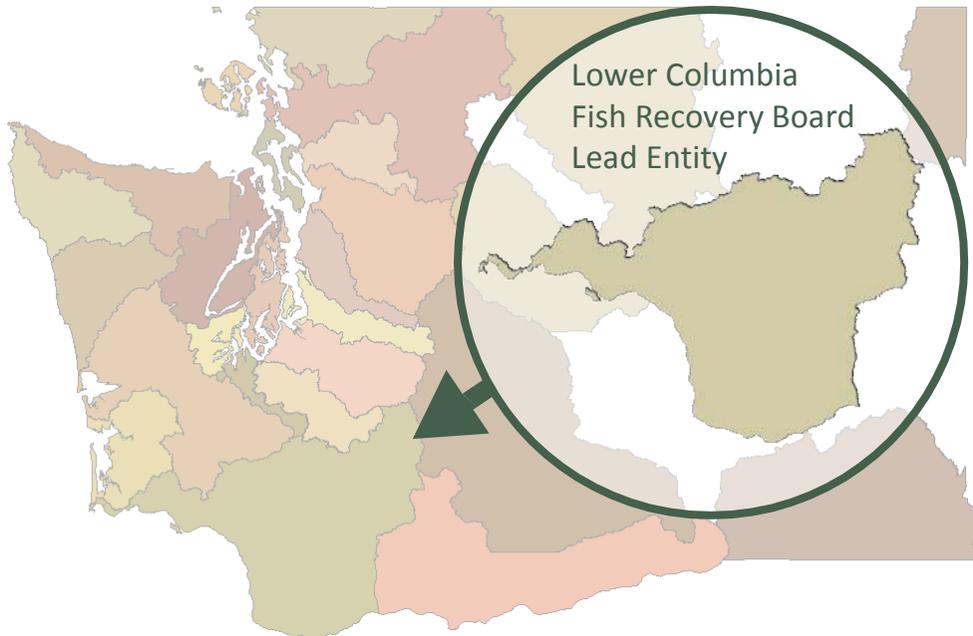
Lewis County citizen

Jade Unger

Clark County citizen

Dennis Weber

Cowlitz County commissioner



Lower Columbia Fish Recovery Board Lead Entity

Area:

5,700 square miles

Population: 525,000

Fish-bearing Streams:

2,882 miles

Marine Shoreline:

268 miles

Water Resource

Inventory Areas:

25, 26, 27, 28, and parts of 24 and 29

Congressional

District: 3

Legislative Districts:

15, 17, 18, 19, 20, 49

Recreation and

Conservation Office

Funded Projects:

\$40 million,

220 projects,

\$18.5 million in

matching resources

The Lower Columbia Fish Recovery Board Lead Entity

area extends from the mouth of the Columbia River upstream to and including the Little White Salmon River.

The river is home to five Endangered Species Act-listed fish: Chinook, chum, coho, steelhead, and bull trout. All together, these listed species are comprised of 74 distinct populations and account for 59 percent of the Endangered Species Act-listed populations returning to the Columbia River basin. The listed populations inhabit more than 2,300 river miles in 18 subbasins.

In 1998, it was the vision of the Washington Legislature to create a pilot program in southwest Washington to demonstrate integrating salmon recovery and watershed planning. The program's goals are to restore habitat, recover listed salmon and steelhead, and manage water resources for future growth.

The 15-member board includes representatives from local governments, the Legislature, the Cowlitz Indian Tribe, hydropower operators, environmental and landowner interests, and the public. The lower Columbia recovery plan was the first locally-developed recovery plan in the nation adopted by the National Marine Fisheries Service.



LEAD ENTITY COORDINATOR

Jeff Breckel

(360) 425-1555

jbreckel@lcfwb.gen.wa.us



(Before and after) Wildhorse Creek culvert removal, bridge construction, and bedrock restoration. Sponsored by Cowlitz County in partnership with the Lower Columbia Fly Fishers.



(Before and after) Skamokawa River, Wahkiakum County: Restoring the stream with root wads, logs, and logjams to help stabilize the bank and slow the stream. Livestock fencing was added to improve the water quality.

PROJECT SPONSORS *(continued from right)*

- Columbia River Estuary Study Taskforce
- Cowlitz Conservation District
- Cowlitz County
- Cowlitz Game and Anglers
- Cowlitz Indian Tribe
- Fish First
- Friends of the East Fork Lewis River
- Grays River Habitat Enhancement District
- Lewis County
- Lewis County Conservation District
- Long Live the Kings
- Lower Columbia Estuary Partnership
- Lower Columbia Fish Enhancement Group
- Lower Columbia Fish Recovery Board

- Mid-Columbia Fisheries Enhancement Group
- Mount Saint Helens Institute
- Pacific Conservation District
- Ron and Sara Pursley
- Sea Resources
- Skamania Land Owners Association
- Washington Department of Fish and Wildlife
- Washington State Parks and Recreation Commission
- Underwood Conservation District
- Wahkiakum Conservation District
- Wahkiakum County
- Wild Fish Conservancy

TECHNICAL ADVISORY COMMITTEE

The Technical Advisory Committee is established by the Legislature with mandatory seats for the Washington Departments of Ecology, Fish and Wildlife, Natural Resources, and Transportation. The committee established additional seats to provide a range of technical experts needed to evaluate projects and to advise the board on other matters.

- Stephanie Ehinger**
National Marine Fisheries Service
- Daniel Evans**
Lower Columbia Estuary Partnership
- Jim Fisher**
Private consultant
- Angela Haffie**
Washington Department of Transportation
- Baker Holden**
U.S. Forest Service
- David Howe**
Washington Department of Fish and Wildlife
- Kelley Jorgensen**
Private consultant
- Allen Lebovitz**
Washington Department of Natural Resources
- Steve Manlow**
U.S. Army Corps of Engineers
- Ron Rhew**
U.S. Fish and Wildlife Service
- Doug Stienbarger**
Washington State University Extension
- Randy Sweet**
Private consultant and Lower Columbia Fish Recovery Board
- Shannon Wills**
Cowlitz Indian Tribe
- Open**
Washington Department of Ecology
Governor's Salmon Recovery Office

PAST AND CURRENT PROJECT SPONSORS

- City of Vancouver
- Clark Conservation District
- Clark County
- Clark Public Utilities
- Columbia Land trust
- (continued on left)*





PAUL VECSEI

NISQUALLY RIVER COUNCIL

Roger Andrascik

Mount Rainier National Park

Bob Burkle

Washington Department of Fish and Wildlife

Greg Ettl

University of Washington

JW Foster

City of Yelm

Edna Fund

Lewis County

Donovan Gray

Washington Department of Ecology

Pam Hefley

City of Tacoma

Cynthia Iyall

Nisqually Indian Tribe

Doug McClelland

Washington Department of Natural Resources

Jim McCune

Pierce County

Fred Michelson

Citizen

Glynnis Nakai

Nisqually National Wildlife Refuge

Karelina Resnick

Citizen

Sandra Romero

Thurston County

Mike Schaub

Town of Eatonville

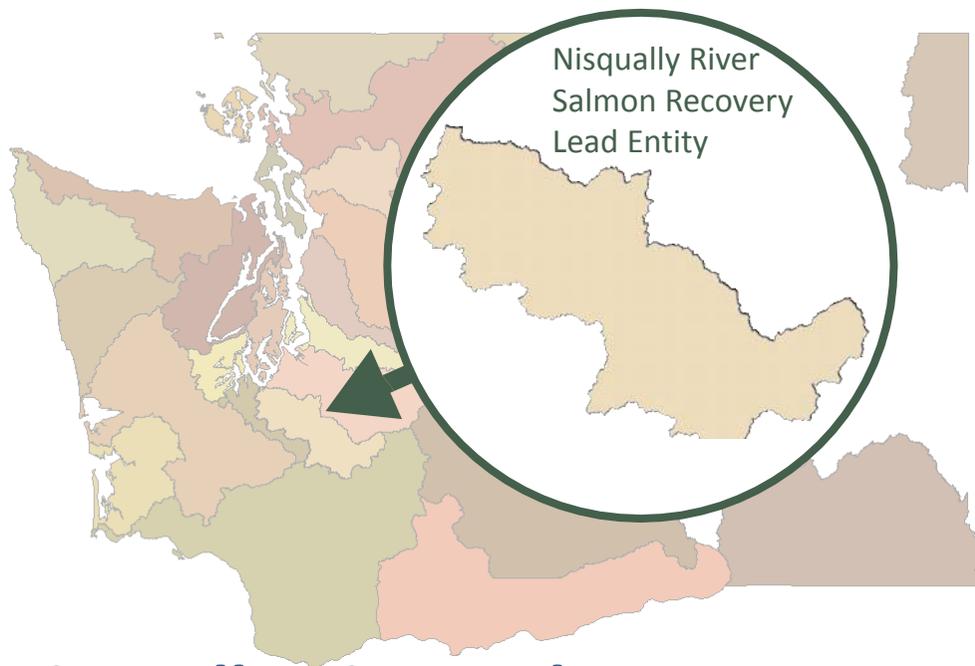
Rene' Skaggs

Pierce Conservation District

Robert Smith

Citizen

(continued on next page)



Nisqually River Salmon Recovery Lead Entity

Area: 491,258 acres

Population: 89,142

Fish-bearing Streams:

203 miles

Marine Shoreline:

10 miles

Water Resource Inventory Area: 11

Congressional Districts: 3, 8, 10

Legislative Districts:

2, 20, 22, 28

Recreation and Conservation Office

Funded Projects:

\$20.6 million,

62 projects,

\$5.5 million in matching resources

The Nisqually River watershed is in the south Puget Sound region of Washington. The total area of the Nisqually watershed covers nearly 761 square miles. The river originates from the Nisqually glacier on the southern slope of Mount Rainier and flows west-northwest for 78 miles ultimately entering Puget Sound just northeast of Olympia. Land use in the Nisqually watershed is dominated by forestry and recreational uses (96 percent). The remaining 4 percent of the land is used for agriculture and urban (residential and commercial) uses. Much of the degradation in the Nisqually basin is a result of historic forestry practices that led to channelization, scour, sedimentation, and decreases in habitat diversity.

The mission of the Nisqually River Council, our local citizen committee, is to 'create sustainability in the Nisqually Watershed for current and future generations by developing a common culture of environmental, social, and economic balance.' Together, with our many partnerships throughout the watershed, we have accomplished major habitat restoration initiatives including Mashel River logjam projects, Nisqually estuary dike removals, and Ohop Creek floodplain reconnection. Future restoration opportunities, such as the continuation of the Ohop Valley restoration, the development of a Nisqually Community Forest, and main stem projects, are large scale and will require complex and multiple funding sources, along with coordination and support from partners.



LEAD ENTITY COORDINATOR

Ashley Von Essen

(360) 456-5221 Ext. 2145

vonessen.ashley@nisqually-nsn.gov



Before (above left) and after (above right) the first two phases of the lower Ohop River restoration project re-meandered 1 mile of ditched creek to restore the water connection to floodplain and wetlands and create off-channel habitat and rearing opportunities for Chinook salmon. The completion of the project's third phase (below left) will restore an additional 1.4 miles. (Below right) Dozens of staff and volunteers assisted in a fish-out that transferred more than 8,000 freshwater creatures to the newly established creek bed.



Nisqually estuary before (left) and after (right) removal of agricultural dikes that allowed tidal inundation of 760 acres of diked freshwater marsh.



Nisqually partners have begun an endeavor that will establish the watershed's first community forest, to be owned and managed locally.

NISQUALLY RIVER COUNCIL
(continued from previous page)
Paul Steuke
 Joint Base Lewis-McChord Lewis
Stephanie Suter
 Puget Sound Partnership
Karen Yates
 City of Roy

TECHNICAL COMMITTEE
Kim Bredensteiner
 Nisqually Land Trust
Rich Carlson
 U.S. Fish and Wildlife Service
Brian Combs
 South Puget Sound
 Salmon Enhancement Group
Chris Ellings
 Nisqually Indian Tribe
Justin Hall
 Nisqually River Foundation
Sayre Hodgson
 Nisqually Indian Tribe
Joe Kane
 Nisqually Land Trust
Darric Lowery
 Washington Department of
 Fish and Wildlife
Tom Nelson
 Pierce County
Cathy Sampelle
 Nisqually Indian Tribe
Kathy Whalen
 Thurston Conservation District
Cindy Wilson
 Thurston County
Lance Winecka
 South Puget Sound Salmon
 Enhancement Group
Barb Wood
 Thurston County
Luis Yanez
 Pierce Conservation District

**PAST AND CURRENT
 PROJECT SPONSORS**
 Ducks Unlimited Inc.
 Nisqually Indian Tribe
 Nisqually Land Trust
 Pierce Conservation District
 South Puget Sound Salmon
 Enhancement Group
 Thurston Conservation District





North Olympic Peninsula Lead Entity for Salmon

Area: 460,000 acres
Population: 58,874
Fish-bearing Streams: 526 miles
Marine Shoreline: 177 miles
Water Resource Inventory Areas: 17, 18, 19
Congressional District: 6
Legislative District: 4
Recreation and Conservation Office Funded Projects: \$36.5 million, 114 projects, \$9.2 million in matching resources

The north Olympic Peninsula is home to numerous freshwater rivers and extensive marine shorelines. Loss and degradation of habitat needed to support healthy salmon populations and functioning ecosystems has resulted in dwindling, threatened, and endangered salmon populations.

Our goals are to:

- Achieve robust, self-sustaining fish stocks capable of supporting harvest.
- Implement salmon recovery plans to protect and restore fish habitat.
- Restore and maintain ecosystem functions.
- Instill ecosystem awareness.
- Integrate these efforts with overall Puget Sound salmon recovery and ecosystem restoration.

Major restoration initiatives are underway in the Dungeness watershed on Clallam County's east side, the Elwha watershed just outside Port Angeles, and the Pysht watershed on the county's western edge.



LEAD ENTITY COORDINATOR

Cheryl Baumann
(360) 417-2326

cbaumann@co.clallam.wa.us

CITIZEN COMMITTEE

Andy Brastad
Clallam County
Scott Chitwood
Jamestown S'Klallam Tribe
Scott Johns
City of Port Angeles
Stephanie Martin
Makah Tribe
Steve Rankin
Citizen
Tom Riepe
Citizen
Jean Sigmar
Citizen
Larry Ward
Lower Elwha Klallam Tribe

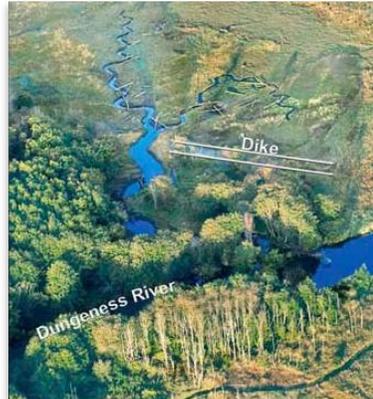
TECHNICAL COMMITTEE

Meghan Adamire
Clallam Conservation District
Rebecca Benjamin
North Olympic Salmon Coalition
Chris Byrnes
Washington Department of Fish and Wildlife
Coleman Byrnes
Citizen
John Cambalik
Strait Ecosystem Recovery Network
Michele Canale
North Olympic Land Trust
Pat Crain
Olympic National Park
Gretchen Glaub
Puget Sound Partnership
Mike Haggerty
Makah Tribe
(continued on next page)



(Above) Members of the North Olympic Peninsula Lead Entity for Salmon and the Salmon Recovery Funding Board staff lead a tour of restoration projects on Salt Creek completed by the Elwha Klallam Tribe.

(Left) Salt Creek restoration included this engineered logjam and streamside tree plantings by the Elwha Klallam Tribe.



This Jamestown S’Klallam Tribe project modified barriers, which helped restore the Dungeness River estuary by allowing saltwater to flow across the land, creating a needed saltwater marsh. Photographs show pre-project in April 2007 and post-project in September 2009. The remaining section of the dike was not removed to avoid disturbing butterfly habitat. (Photographs by Jamestown S’Klallam Tribe.)



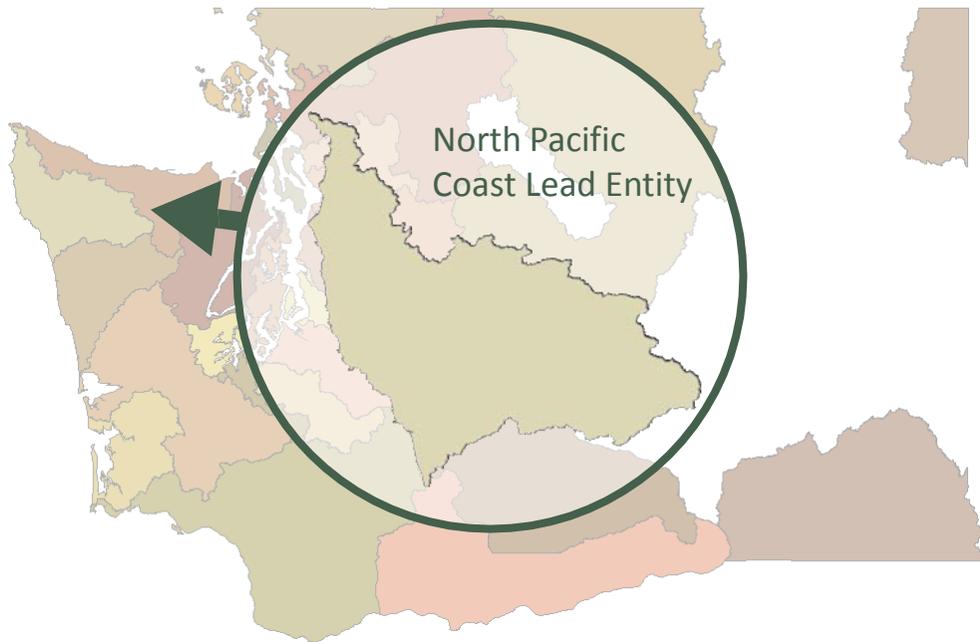
(Left) Sarah Doyle of the North Olympic Salmon Coalition, leads a tour for the North Olympic Peninsula Lead Entity for Salmon and Salmon Recovery Funding Board Review Panel and talks about the Morse Creek floodplain reconnection project, which has benefited salmon and anglers. (Photograph by North Olympic Peninsula Lead Entity for Salmon.)

TECHNICAL COMMITTEE
(continued from previous page)

- Ken Hobson**
Citizen
- Randy Johnson**
Jamestown S’Klallam Tribe
- Robert Knapp**
Jamestown S’Klallam Tribe
- Cathy Lear**
Clallam County
- Mike Mchenry**
Lower Elwha Klallam Tribe
- Ian Miller**
Washington Sea Grant
- Ray Moses**
Lower Elwha Klallam Tribe
- Tim Rymer**
Citizen
- Peter Vanderhoof**
Citizen

PAST AND CURRENT PROJECT SPONSORS

- Agnew Irrigation District
- City of Port Angeles
- Clallam Conservation District
- Clallam County
- Coastal Watershed Institute
- Ducks Unlimited
- Jamestown S’Klallam Tribe
- Jefferson County
- Lower Elwha Klallam Tribe
- Makah Tribe
- Merrill & Ring
- North Olympic Land trust
- North Olympic Salmon Coalition
- Pacific Forest Management
- Quileute Tribe
- Sequim Prairie Tri-Irrigation
- Washington Department of Fish and Wildlife
- Washington Department of Natural Resources
- Washington Water Trust
- Wild Fish Conservancy



CITIZEN-INITIATING GOVERNMENT COMMITTEE

Steve Allison

Hoh Tribe

Eric Carlson

Citizen

Carl Chastain

Regional Fish Enhancement Group

Phil DeCillis

Citizen

Rod Fleck

City of Forks

Mike Hagen

Citizen

David Hahn

Citizen

Cathy Lear

Clallam County

Stephanie Martin

Makah Tribe

Tami Pokorny

Jefferson County

Nicole Rasmussen

Quileute Tribe

Mike Tetreau

Citizen

North Pacific Coast Lead Entity

Area: 935,250 acres

Population: 9,126

Fish-bearing Streams:

935 miles

Marine Shoreline:

80 miles

Water Resource

Inventory Area: 20

Congressional

District: 6

Legislative District: 24

Recreation and

Conservation Office

Funded Projects:

\$3.1 million,

25 projects,

\$1.2 million in

matching resources

The North Pacific Coast Lead Entity began in 2007, after splitting off from the North Olympic Peninsula Lead Entity for Salmon. This separation recognized the fact that all of the freshwater systems in the lead entity area flow directly into the Pacific Ocean instead of the Strait of Juan de Fuca. In the same year, the regional organization, called the Washington Coast Sustainable Salmon Partnership, formed and incorporated the remaining three lead entities with watersheds that flow directly into the Pacific Ocean.

The recovery area encompasses 935,250 acres and more than 80 miles of coastline starting in the south in the Hoh River basin at the Steamboat Creek drainage, and extending north to the Ocean Creek drainage at Cape Flattery. The largest drainage area is the centrally located Quillayute River watershed, which is fed by the Bogachiel, Calawah, Dickey, and Sol Duc River systems. The north end of this salmon recovery area is dominated by the extensive stream basin of Lake Ozette and the independent drainages of the Tsoo-Yess and Wa'atch Rivers.

The area can experiences more than 240 inches of rainfall a year. Forests dominate the region, with the lower elevations of the river systems mostly in privately or government-owned commercial forestry. Three tribes own reservation lands with an extensive overlay of indigenous usual and accustomed hunting and fishing areas covering each watershed.

(continued on next page)



LEAD ENTITY COORDINATOR

Rich Osborne

(360) 374-4560

osborner@uw.edu

(continued from previous page)

The relatively small remainder of land is in diverse rural residential, recreational, and agricultural use. There are several small urban centers with the city of Forks as the largest.

The primary goal of the North Pacific Coast Lead Entity is to maintain and improve ecosystem productivity and genetic diversity for all salmon species by protecting highly productive habitats and populations, and restoring impaired habitat and populations with the potential to recover. To accomplish this goal, the lead entity will use the best available science to set priorities, incorporate socio-political factors in decision-making, and help provide direction and focus for the success of project sponsors.

Mount Olympus from the mouth of the Quillayute River. (Photograph by Katie Krueger, Quileute Tribe's Natural Resources.)



The Pole Creek culvert replacement project removed a culvert that was blocking fish migration and replaced it with a bridge. Salmon, steelhead, and cutthroat trout use the creek, but habitat had declined severely because of blockages, mainly under county roads. This project removed the last barrier, opening more than 2 miles of upstream habitat to the Hoh River main stem.

(Above left) Releasing Pole Creek from its old culverts.

(Below left) Pole Creek Bridge Project completed.

Photographs by Mike Hagen, Hoh River Trust.



TECHNICAL REVIEW GROUP

Mehgan Adamire

Clallam Conservation District

Steve Allison

Hoh Tribe

Chris Byrnes

Washington Department of Fish and Wildlife

Eric Carlsen

Retired, Washington Department of Natural Resources

Phil DeCillis

Retired, U.S. Forest Service

Devona Ensmenger

Wild Salmon Center

Mike Hagen

Hoh River Trust

Joe Gilbertson

Hoh Tribe

Deborah Kucineck

Clallam County

Cathy Lear

Clallam County

Stephanie Martin

Makah Tribe

Tami Pokorny

Jefferson County

John Richmond

City of Forks

Dana Sarff

Makah Tribe

Anne Shaffer

Coastal Watershed Institute

Nick Taggart

Hoh Tribe

PAST AND CURRENT PROJECT SPONSORS

10,000 Years Institute

Clallam Conservation District

Columbia Land Trust

Hoh River Trust

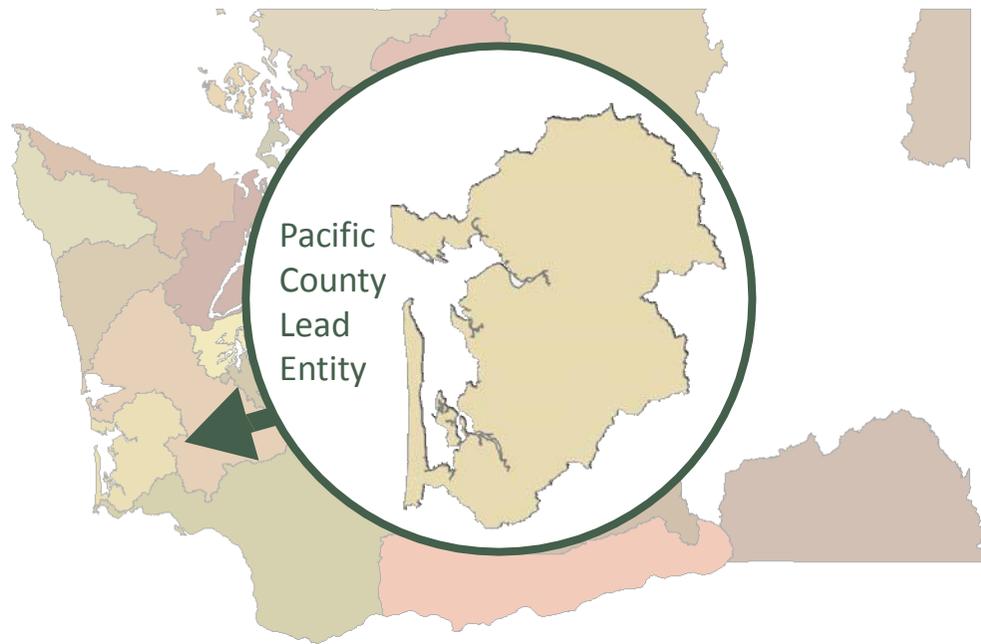
Jefferson County

Conservation District

Makah Tribe

North Olympic Land Trust

Pacific Coast Salmon Coalition



CITIZEN COMMITTEE

Janie Rose, Chair

Livestock operation

Tim Morris, Vice Chair

Coast Oyster

Mike Cassinelli

Mayor, City of Ilwaco

Warren Cowell

Shellfish farming

Ray Gardiner

Chinook Tribe

Steve Gray

Commercial fisherman, Willapa Bay

Harvest Committee

Dan Heasley

Landowner

Tom Kollasch

The Nature Conservancy

Bob Lake

Willapa Regional Fisheries

Enhancement Group

Al Lougheed

Pacific Conservation District

Key McMurry

Citizen

Jeff Nesbitt

Pacific County Vegetation

Management

Michael Spencer

Willapa Audubon and Pacific

County Anglers

Pacific County Lead Entity

Area: 742,225 acres

Population: 19,500

Fish-bearing Streams:

1,318 miles

Marine Shoreline:

188 miles

Water Resource

Inventory Area: 24

Congressional

District: 3

Legislative District: 19

Recreation and

Conservation Office

Funded Projects:

\$7.3 million,

59 projects,

\$7.5 million in

matching resources

The Pacific County Lead Entity covers portions of Grays Harbor, Lewis, Pacific, and Wahkiakum Counties.

The lead entity focuses on the lower watershed, where restoration would benefit five salmon species. The lead entity establishes and prioritizes projects and provides a diverse, citizen-based evaluation of salmon habitat restoration and protection projects.



LEAD ENTITY COORDINATOR

Mike Nordin

(360) 875-6735

Plutroll@willapabay.org



Willapa River and South Bend, Washington



Citizen Committee and Technical Advisory Group evaluate projects.



Nice Catch!

TECHNICAL COMMITTEE

- Columbia River Estuary Study Task Force (CREST)
- Grays Harbor Conservation District Natural Resources Conservation Service
- Pacific Conservation District
- Washington Department of Ecology
- Washington Department of Fish and Wildlife
- Washington Department of Natural Resources

PAST AND CURRENT PROJECT SPONSORS

- Coastal Resources Alliance
- Columbia Land Trust
- Friends of the Willapa National Wildlife Refuge
- Pacific Conservation District
- Pacific County
- Pacific County Anglers
- Sportsmen’s National Land Trust- Washington Chapter
- The Nature Conservancy
- Washington Department of Fish and Wildlife
- Washington Department of Natural Resources
- Willapa Bay Regional Fisheries Enhancement Group





U.S. FISH AND WILDLIFE SERVICE

CITIZEN ADVISORY COMMITTEE

Keith Underwood, Chair
Chambers-Clover Watershed Council
Karen Chang

U.S. Forest Service

Sherrie Duncan
Citizens for a Healthy Bay

Kurt Fremont
City of Tacoma

Michael Garrity
American Rivers

Scott Hansen
Puget Creek Restoration Society

Mark Heckert
Puyallup River Watershed Council

Ted Hill
City of Sumner

Tom Kantz
Pierce County

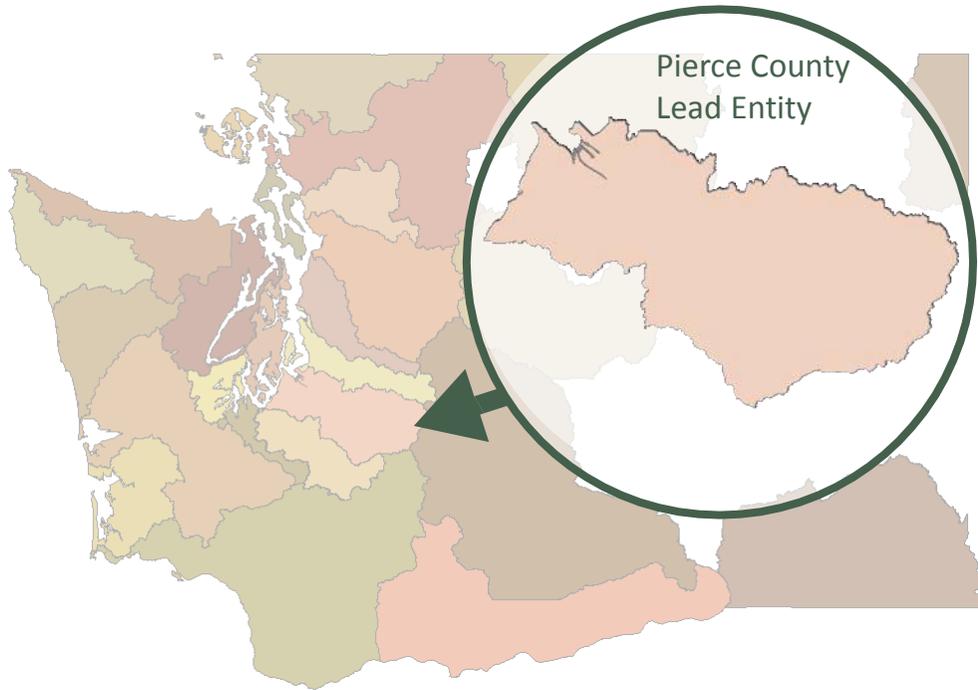
Russ Ladley
Puyallup Tribe of Indians

Ron Larson
Citizen

Sarah McCarthy
King County

Kristin Williamson
South Puget Sound Salmon
Enhancement Group

Ken Wolfe
City of Orting



Pierce County Lead Entity

Area:
1,211 square miles
Population: 650,000
Fish-bearing Streams:
506 miles
Marine Shoreline:
63 miles
**Water Resource
Inventory Areas:**
10, 12
**Congressional
Districts:** 6, 8, 9, 10
Legislative Districts:
2, 25, 27, 28, 29,
30, 31
**Recreation and
Conservation Office
Funded Projects:**
\$20.7 million,
68 projects,
\$8 million in matching
resources



The Pierce County Lead Entity consists of two diverse watersheds. The Puyallup and White Rivers watershed (Water Resource Inventory Area 10) drains an area about 1,062 square miles and has more than 728 miles of rivers and streams. The Puyallup River and two major tributaries, the White and Carbon Rivers, are glacially born on the flanks of Mount Rainier.

The Chambers and Clover Creeks watershed (Water Resource Inventory Area 12) drains an area of only 149 square miles, with groundwater-fed Clover Creek draining to Steilacoom Lake – the origin of Chambers Creek, which then drains to Chambers Bay.

The watersheds are impaired and degraded as a result of human activities and urban development. Groundwater levels and stream flows have been decreasing, and water quality is degraded. Commencement Bay also is within the watersheds. The high level of development and high cost of land around the bay present challenges to salmon restoration projects.

The Pierce County Lead Entity pursues the recovery of White River spring Chinook; Puyallup River fall Chinook; Puyallup, White, Carbon Rivers and Chambers Creek steelhead; and Chambers Creek coho. The mission of the Citizen Advisory Committee is to support the recovery of self-sustaining, harvestable salmon populations in Puget Sound by restoring and protecting the habitat in Water Resource Inventory Areas 10 and 12.

LEAD ENTITY COORDINATOR

Lisa Spurrier
(253) 798-6158
lspurri@co.pierce.wa.us



This project reconnected the Greenwater River to its floodplain. Nearly 1 mile of road was removed and 17 engineered logjams were placed, providing deep, cold pools for young salmon to grow.



Side channel flow was introduced into the South Fork floodplain area by excavating a channel in the overbank floodplain. The formation of habitat complexity was facilitated by installing tree root wads and logs. Recruited gravel can be seen in the photograph.



The formerly channelized and over-steepened portion of Boise Creek was restored to an alluvial fan floodplain with large tree root wads and logs to provide roughness so that Boise Creek can scour pools, form riffles, and build terraces at its confluence with the White River.

TECHNICAL ADVISORY GROUP

Tom Nelson, Chair

Pierce County

Karen Chang

U.S. Forest Service

Sherrie Duncan

Citizens for a Healthy Bay

Martin Fox

Muckleshoot Tribe

Russ Ladley

Puyallup Tribe of Indians

Tyler Patterson

City of Tacoma

Carl Ward

Washington Department of Transportation

Doug Wiedemeier

Washington Department of Fish and Wildlife

PAST AND CURRENT PROJECT SPONSORS

City of Bellevue

City of Buckley

City of Federal Way

City of Orting

City of Puyallup

City of Sumner

City of Tacoma

City of University Place

Fisheries Consultants

Forterra

King Conservation District

King County

Muckleshoot Tribe

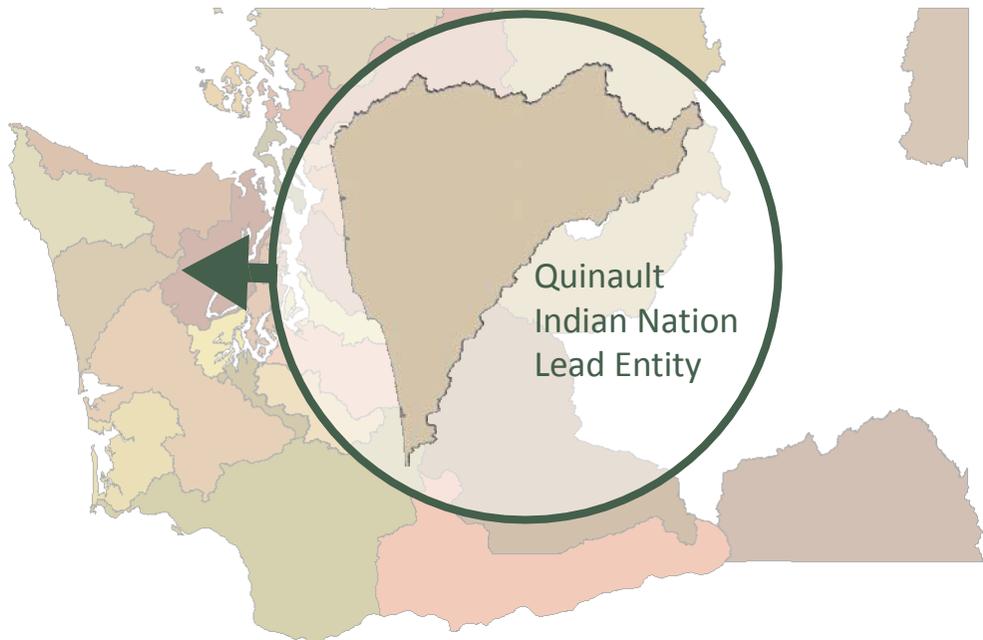
Pierce Conservation District

Pierce County

Puget Sound Partnership

Puyallup Tribe of Indians

South Puget Sound Salmon Enhancement Group



Quinault Indian Nation Lead Entity

Area: 755,674 acres
Population: 4,500
Fish-bearing Streams:
1,030 miles
Marine Shoreline:
45 miles
**Water Resource
Inventory Area:** 21
**Congressional
District:** 6
Legislative District: 24
Funded Projects:
\$5 million,
49 projects,
\$1.5 million in
matching resources

The Quinault Indian Nation Lead Entity coordinates salmon habitat restoration in Water Resource Inventory Area (WRIA) 21, which runs along the Pacific Coast of the Olympic Peninsula and encompasses 755,674 acres. The area contains some of the last remaining intact, free-flowing river systems and salmon populations in Washington. Our watersheds include the Copalis, Clearwater, Moclips Queets, Quinault, and Raft, plus a dozen smaller watersheds.

Our mission is to “restore and protect physical and biological processes that benefit naturally spawning salmonids and their habitats.”

Our vision is for “all of the watersheds in WRIA 21 to contain healthy, diverse populations of salmon sustained by healthy ecosystems supported by undisrupted physical and biological processes. Our watersheds will contain abundant, contiguous aquatic, near-shore, estuarine, and riparian habitats used by diverse, species-rich biological communities that support and service the cultural and other value-based needs of local stakeholders.”

Revised in 2011, the WRIA 21 salmon habitat restoration strategy intends to improve natural processes that create and maintain salmon habitat while protecting intact habitats in ways that are compatible with cultural and economic needs of local stakeholders and support continued use of natural resources including timber, salmon, and wildlife.

LEAD ENTITY COORDINATOR

Bill Armstrong
(360) 276-8215 Ext. 240
barmstro@quinault.org



CITIZEN COMMITTEE

Jim Sellers, Chair

Quinault Indian Nation

Tyson Johnston

Quinault Indian Nation

Roland Mason

Quinault Indian Nation

Larry Ralston

Quinault Indian Nation

Clarinda (Pies) Underwood

Quinault Indian Nation

TECHNICAL COMMITTEE

Chris Conklin

Washington Department of Fish
and Wildlife

Tom Kollasch

Forest ecology, The Nature Conservancy

Betsy Krier

U.S. Forest Service

Caroline Martorano

Quinault Indian Nation

Pad Smith

Washington Department of Fish
and Wildlife

Mike Stamon

Quinault Indian Nation

Steve Thompson

Washington Department of Natural
Resources

PAST AND CURRENT PROJECT SPONSORS

Columbia-Pacific Resource Conservation
and Economic Development District

Jefferson County

LWC Consulting

Pacific Coast Salmon Coalition

Quinault Indian Nation

The Nature Conservancy

The strategy provides a framework for project sponsors, land managers, and landowners to address limiting factors to salmon production, inform design and implementation of habitat projects, and inform adaptive management in our river and stream corridors. The lead entity has been particularly successful providing Salmon Recovery Funding Board grants to support assessments, inventories, and scientific studies that have led to development and implementation of habitat enhancement and restoration programs including upper Quinault River restoration, Lake Quinault fertilization, Quinault Indian Reservation fish barrier removal, and lower Quinault River watershed invasive plant control.

Featured Projects

Lower Quinault River Watershed – Invasive Plant Control

Knotweed are robust, bamboo-like perennials that form dense thickets in a wide range of conditions, especially along riverbanks, floodplains, roadsides, and other moist, disturbed areas. Escaped ornamental species from Japan, they are extremely vigorous with an extensive root system, easily outcompeting and eliminating native shoreline vegetation. The most commonly occurring species on the Quinault Indian Reservation are Giant, Japanese, Bohemian, and Himalayan.

Project Sponsor: Quinault Indian Nation

Project Area: 13,680 acres

Total Cost: \$450,840

Funding: Salmon Recovery Funding Board grants: \$375,840; Match: \$75,000

Timeline: 2006–Ongoing

Number of Jobs: 11

Goal: Reduce infestations and spread of non-native plant species including knotweed and reed canary grass to maintenance levels in order to implement recovery of shoreline forests in floodplains and channel migration zones.



Clearwater River Watershed – Christmas Creek Fish Barrier Removal Project

Barriers to salmon migration and access to essential spawning and rearing habitats are the results of past logging and road building in tribal, federal, state, and privately-owned forests. To address this limiting factor to salmon production, project sponsors secure Salmon Recovery Funding Board grants through the lead entity to complete engineering designs and construction projects that remove the barriers and replace them with new culverts, bridges, or open channels. The Christmas Creek Fish Barrier Removal Project was completed in 2014 with removal of the last remaining fish barrier, thereby reestablishing access for salmon and other fish species to the historical network of streams in the Christmas Creek sub-watershed.

Project Sponsor: Pacific Coast Salmon Coalition

Restored Access: 6 barriers removed; 6 miles

Total Cost: \$503,952

Funding: Salmon Recovery Funding Board grants: \$328,069; Match: \$175,883

Timeline: 2011–2014

Number of Jobs: Seven

Goal: Restore fish passage for salmon migration and access to spawning and rearing habitats.



Working Together

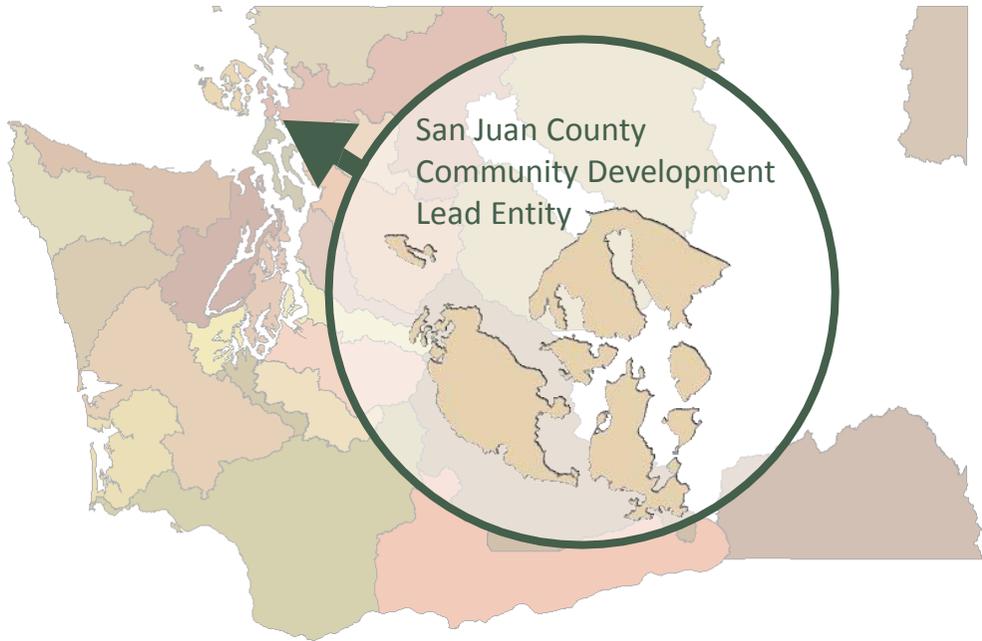
The Quinault Indian Nation has implemented an innovative approach to coordinate restoration of salmon habitats in WRIA 21. The tribe combined its habitat management scientist position with lead entity coordinator responsibilities in 2014. This approach will help us better coordinate our efforts by increasing staff capacity and linking use of best available science with lead entity responsibilities, thereby improving our overall effectiveness. Our goal using this approach is to achieve multiple benefits including improvements in our project planning and design, reducing project costs, and improving community outreach while creating and retaining jobs that benefit our local communities and natural resource-based economy.

Leadership

The lead entity is establishing itself as a leader of habitat restoration in Washington State. The Quinault Indian Nation has formed a renowned restoration team with expertise in engineering, forestry, and physical, biological, and habitat restoration sciences. The team includes the lead entity Technical Committee, tribal staff, and a suite of restoration contractors who provide analysis, design, and construction services.

Collaboration and Partnerships

Salmon habitat restoration is completed through partnerships and collaboration among project sponsors, land managers, and private landowners. Federal and state agencies provide compliance and technical support for some projects. Technical and financial support also is provided by some non-governmental organizations that support salmon habitat restoration in WRIA 21.



PAUL VECSEI

**SAN JUAN COUNTY
MARINE RESOURCES COMMITTEE**

Laura Arnold

Citizen

Gregory Ayers

Citizen

Barbara Bentley

Citizen

Marc Broman

Deer Harbor Marina

Kathleen Dolsen

Westcott Bay Shellfish Company

Sam Gibboney

San Juan County Community

Development

Philip Green

The Nature Conservancy

Wesley Heinmiller

Citizen

Johannes Krieger

Town of Friday Harbor, Crystal

Seas Kayaking

Chuck Schietinger

Spring Street School

Ken Sebens

University of Washington Friday

Harbor Labs

Thomas Temple

Citizen

Terrance Turner

Orcas Power and Light Cooperative

Robert Wilson

San Juan Surveying

San Juan County Community Development Lead Entity

Area:

175 square miles

Population: 14,400

Fish-bearing Streams:

103 miles

Marine Shoreline:

408 miles

Water Resource

Inventory Area: 2

Congressional

District: 2

Legislative District: 40

Recreation and

Conservation Office

Funded Projects:

\$9 million,

50 projects,

\$3.5 million in

matching resources

The San Juan Islands are at the junction of the Strait of Juan de Fuca, Strait of Georgia, and Puget Sound. The archipelago's highly diverse marine ecosystem is home to multiple species of salmon, orcas, marine mammals, and seabirds, and provides shoreline rearing and significant prey resources for many fish migrating to and from other regions.

San Juan County waters and the shorelines are essential parts of salmon recovery in Puget Sound. The San Juans provide more than 400 miles of marine shoreline. Many populations of Chinook and other salmon species from watersheds across the region and the state use the islands and their array of habitats for migration and rearing.

San Juan County is the lead entity for Water Resource Inventory Area 2 and has designated the San Juan County Marine Resources Committee as the citizens committee for salmon recovery. The San Juan salmon recovery chapter was developed locally. It is an ecosystem-based recovery plan supporting multiple salmon species with an emphasis on Puget Sound Chinook salmon listed under the Endangered Species Act in 1999. The local salmon recovery chapter is part of the Puget Sound Salmon Recovery Plan.



LEAD ENTITY COORDINATOR

Barbara Rosenkotter

(360) 370-7593

barbarar@sanjuanco.com



(Before) A derelict concrete saltwater swimming pool blocked forage fish from reaching the beach for spawning in Deer Harbor on Orcas Island. The structure also was a danger to people using the beach.

(After) Now that the swimming pool has been removed, people can get to the shoreline and the intertidal habitat is available for forage fish to spawn.



(Before) A derelict tide gate in Shoal Bay on Lopez Island trapped juvenile salmon in a saltwater lagoon at low tides and elevated water temperatures to lethal levels for fish.

(After) With the tide gate removed, water flows freely, allowing fish passage in and out of the lagoon and water temperatures in the lagoon no longer reach lethal levels.



SALMON TECHNICAL ADVISORY GROUP

Alan Chapman

Lummi Nation

Eric Eisenhardt

The Whale Museum

Ray Glaze

Northwest Marine Technology

Gene Helfman

Professor emeritus

Judy Meyer

Research professor emeritus

Mindy Rowse

National Oceanic and

Atmospheric Administration

Chuck Schietinger

Spring Street School

Kimbal Sundberg

Retired habitat biologist

Doug Thompson

Washington Department of

Fish and Wildlife

Todd Zackey

Tulalip Tribes

PAST AND CURRENT PROJECT SPONSORS

Friends of the San Juans
KWIAHT

Long Live the Kings

Northwest Marine Tech In

Northwest Straits Marine

Conservation Foundation

People for Puget Sound

Samish Indian Nation

San Juan County

San Juan County Land Bank

San Juan Preservation Trust

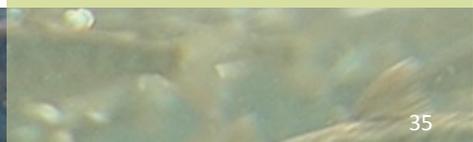
Skagit Fisheries Enhancement Group

Surfrider Foundation

University of Washington

Washington Water Trust

Wild Fish Conservancy





GEOFFREY McMICHAEL

**SKAGIT WATERSHED COUNCIL
BOARD OF DIRECTORS**

Ken Dahlstedt, Chair

Skagit County

Steve Hinton, Vice-Chair

Skagit River System Cooperative

Carolyn Kelly, Secretary-Treasurer

Skagit Conservation District

Brenda Cunningham

Skagit Land Trust

Loren Everest

U.S. Forest Service

Bob Everitt

Washington Department of Fish
and Wildlife

Margaret Fleek

City of Burlington

Colleen McShane

City of Seattle

Jon-Paul Shannahan

Upper Skagit Indian Tribe

CITIZEN COMMITTEE

Skagit Watershed Council Board

Bruce Freet

Fidalgo Fly Fishers

Danielle DeVoe

Washington Department of Ecology

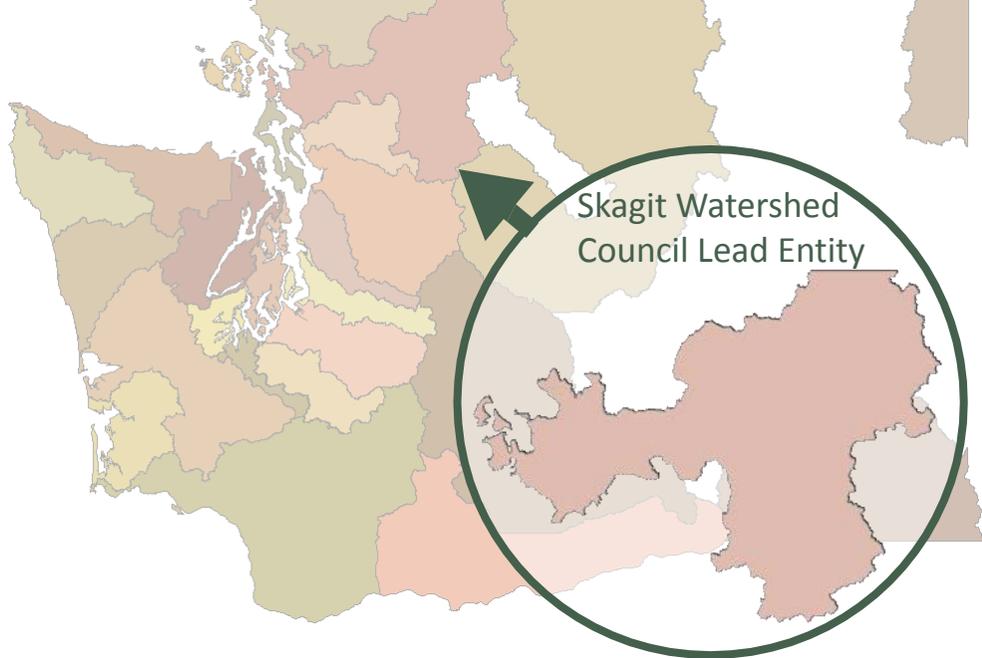
Brandon Roozen

Western Washington

Agricultural Association

John Vanderheyden

Skagit Fisheries Enhancement Group



Skagit Watershed Council Lead Entity

Area: 1,110,492 acres

Population: 113,100

Fish-bearing Streams:
1,145 miles

Marine Shoreline:
225 miles

**Water Resource
Inventory Areas:** 3, 4

**Congressional
Districts:** 1, 2

Legislative Districts:
10, 39, 40

**Recreation and
Conservation Office
Funded Projects:**
\$64.1 million,
179 projects,
\$20.6 million in
matching resources

The Skagit River is the largest drainage that flows into Puget Sound and the third largest river on the West Coast of the continental United States. It contains the largest remaining wild populations of Puget Sound Chinook, steelhead, and bull trout and is home to substantial populations of all species of Pacific salmon and trout.

Consistent with the 2006 Puget Sound Chinook Salmon Recovery Plan, our current priorities focus on protecting and restoring floodplain and estuary habitat. We also are launching into the development of steelhead and bull trout habitat priorities given their recent Endangered Species Act listing.

The Skagit Watershed Council is a not-for-profit organization founded in 1997 and is the designated lead entity for the Skagit and Samish Rivers. We chose a clear, narrow focus – supporting the implementation of voluntary habitat restoration and protection and engaging the community on all aspects of recovery.

Our mission is to understand, protect, and restore the productivity of the Skagit and Samish watersheds in order to support sustainable fisheries. The council works to fulfill its mission by means of collaboration, technical assistance, and engagement.



WATERSHED COORDINATOR

Chris Vondrasek

(360) 419-9326

cvondrasek@skagitwatershed.org



Before and after photographs of Fisher Slough. Restoration improved 60 acres of freshwater habitat for Chinook salmon and improved fish access to 22 square miles of the Carpenter Creek watershed. The project included setting back levees, restoring the tidal marsh, and installing self-regulating floodgates. The project also provided flood protection for residents and farmland in the watershed. Monitoring shows more juvenile fish use than anticipated.



Before and after photographs of Day Creek restoration. This project added logjams to the lower creek to slow and cool the river; stabilize sediment; and create places for salmon to rest, hide from predators, feed, and grow.



SALMON TRAILS and TALES
A Tour of Puget Sound Watersheds

www.salmontrails.org

This Web site showcases restoration projects the public can see.

- TECHNICAL REVIEW COMMITTEE**
- Doug Bruland, Chair**
Puget Sound Energy
 - Erik Andersen**
Aspect Consulting
 - Rick Hartson**
Upper Skagit Indian Tribe
 - Polly Hicks**
National Oceanic and Atmospheric Administration Restoration Center
 - Phil Kincare**
U.S. Forest Service
 - Erin Lowery**
City of Seattle
 - Jeff McGowan**
Skagit County
 - Ginger Phalen**
U.S. Fish and Wildlife Service
 - Devin Smith**
Skagit River System Cooperative
 - Pat Stevenson**
Stillaguamish Tribe of Indians
 - Alison Studley**
Skagit Fisheries Enhancement Group
 - Chris Vondrasek**
Skagit Watershed Council
 - Micah Wait**
Wild Fish Conservancy
 - Bob Warinner**
Washington Department of Fish and Wildlife

- PAST AND CURRENT PROJECT SPONSORS**
- City of Mount Vernon
 - City of Seattle
 - Ducks Unlimited Vancouver Chapter
 - Forterra
 - Northwest Straits Marine Conservation Foundation
 - Skagit Conservation District
 - Skagit County
 - Skagit County Dike District 3
 - Skagit Fisheries Enhancement Group
 - Skagit Land Trust
 - Skagit River System Cooperative
 - Skagit Watershed Council
 - Swinomish Tribe
 - The Nature Conservancy
 - Upper Skagit Indian Tribe
 - Washington Department of Fish and Wildlife
 - Washington State Parks and Recreation Commission
 - Wild Fish Conservancy





GEOFFREY McMICHAEL

SALMON RECOVERY BOARD

Billy Bowles

Garfield County citizen

Justin Dixon

Garfield County commissioner

Perry Dozier

Walla Walla County commissioner

Dick Ducharme

Columbia County citizen

Stuart Durfee

Walla Walla County citizen

Del Groat

Garfield County citizen

Jerry Hendrickson

Asotin County citizen

Gary James

Confederated Tribes of the Umatilla

Indian Reservation

Brad Johnson

Asotin County citizen

Jon Jones

Whitman County citizen

Yancey Reser

Walla Walla County citizen

Gary Ryan

Whitman County citizen

Roland Schirman

Columbia County citizen

Brian Shinn

Asotin County commissioner

Mike Talbot

Columbia County commissioner



Snake River Salmon Recovery Board Lead Entity

Area:

4,435 square miles

Population: 92,000

Fish-bearing Streams:

1,123 miles

Marine Shoreline:

None

Water Resource

Inventory Areas:

32, 33, 35

Congressional

Districts: 4, 5

Legislative Districts:

9, 16

Recreation and

Conservation Office

Funded Projects:

\$19.9 million,

190 projects,

\$7.4 million in

matching resources

The Snake River Salmon Recovery Region is in southeast Washington and makes up about 5 percent of the state, and about 7 percent of the salmon-bearing area of the state. The region is characterized by rolling, semi-arid lands flanked by the forested Blue Mountains. The major rivers are the Grande Ronde, Snake, Tucannon, and Walla Walla, and Asotin Creek totaling more than 1,100 miles of salmonid habitat. Land use is closely tied to water in the western portion of the recovery region and to rainfall in the eastern portion. Irrigated lands in the southwestern part of the region support apples, wheat, wine grapes, and onions while un-irrigated lands of the northeast support more dry land agriculture, rangeland, and timber.

The Snake River Salmon Recovery Board is the regional salmon recovery board and lead entity and developed the Snake River salmon recovery plan. The regional organization is comprised of representatives from county and tribal governments, landowners, and citizens. Our mission statement is to “rebuild and maintain a healthy ecosystem that contributes to key fish populations being abundant, productive, and diverse so that they support the social, cultural, and economic well-being of the communities.” Priority actions identified in the recovery plan focus on fish passage, establishing and maintaining streamside habitat and floodplain connectivity, increasing channel complexity, minimizing fine sediments, and reducing temperature.



LEAD ENTITY COORDINATOR

Steve Martin

(509) 382-4115

steve@snakeriverboard.org



Large wood structures were added to the Tucannon River, which runs from its headwaters in the Blue Mountains to a confluence with the Snake River in southeastern Washington. The river had too little water, too much sediment, and waters that were too warm. The large wood slowed the river, cooling the water, and allowed the sediment to settle out.



Wild steelhead waiting for spring rains in Alpowa Creek, a small tributary to the Snake River.

TECHNICAL COMMITTEE

- Joe Bumgarner, John Whalen**
Washington Department of Fish and Wildlife
- Bill Dowdy, Del Groat**
U.S. Forest Service, Pomeroy Ranger District
- Diane Driscoll, Bob Reis**
National Marine Fisheries Service
- Gary James, Mike Lambert**
Confederated Tribes of the Umatilla Indian Reservation
- Michael Kuttel**
Washington Department of Ecology
- Chris Pinney**
U.S. Army Corp of Engineers
- Greg Schlenz**
Natural Resource Conservation Service
- Emmit Taylor, Jr.**
Nez Perce Tribe

PAST AND CURRENT PROJECT SPONSORS

- Asotin County Conservation District
- Asotin County Public Utilities District
- Blue Mountain Land Trust
- Broughton Land Company
- City of Dayton
- Columbia Conservation District
- Columbia County
- Columbia County Weed Board
- Confederated Tribes of the Umatilla Indian Reservation
- Frame, LLC.
- Gardena Farms Irrigation District 13
- Inland Empire Action Coalition
- Mike Fletcher
- Nez Perce Tribe
- Nordheim Family
- Palouse Conservation District
- Pomeroy Conservation District
- Spring Rise Restoration
- Tri-State Steelheaders, Inc.
- Walla Walla Community College
- Walla Walla County
- Walla Walla County Conservation District
- Washington Department of Fish and Wildlife





SNOHOMISH BASIN SALMON RECOVERY FORUM

Erin Auzins

King County

Josh Baldi

Washington Department of Ecology

Keith Binkley

Snohomish County Public

Utilities District

Jamie Burell

City of North Bend

Michelle Connor

Forterra

Bob Everitt

Washington Department of Fish and Wildlife

Allen Gibbs

Pilchuck Audubon Society

Bob Heirman

Snohomish County

Sportsmen's Association

Bill Knutsen

King County Agriculture

Matt Larson

City of Snoqualmie

Monte Marti

Snohomish Conservation District

Heather McCartney

City of Mukilteo

Pete McGuire

The Boeing Company

John Mohr

Port of Everett

Joe Neal

U.S. Forest Service

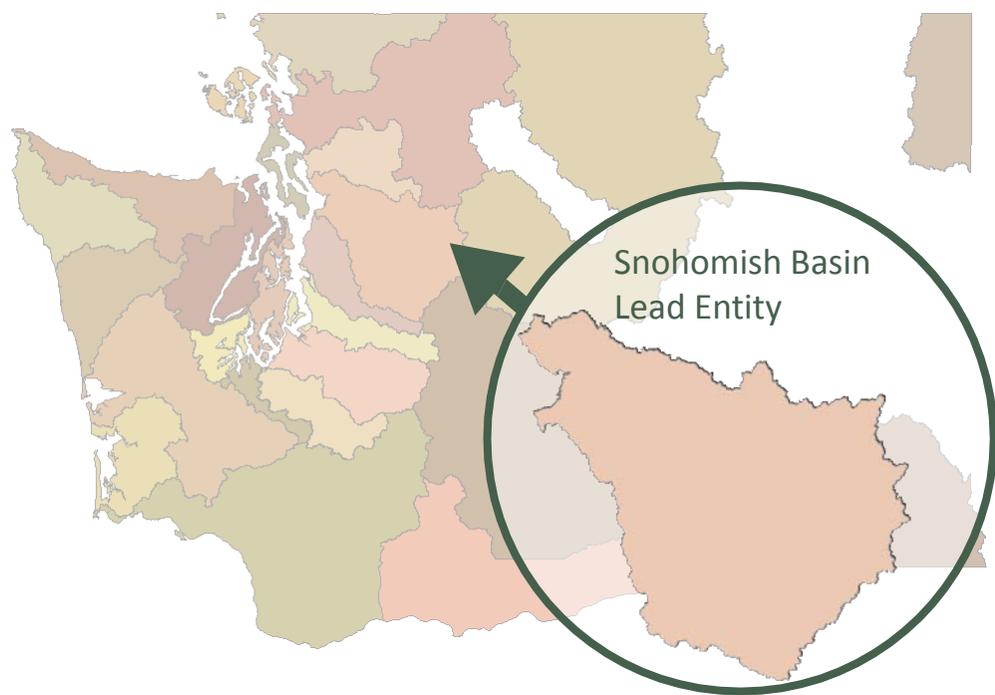
Jon Nehring

City of Marysville

Mike O'Brien

City of Seattle

(continued on next page)



Snohomish Basin Lead Entity

Area:

1,856 square miles

Population: 311,224

Fish-bearing Streams:

800 miles

Marine Shoreline:

77 miles

Water Resource

Inventory Area: 7

Congressional

Districts: 1, 2, 8

Legislative Districts:

1, 5, 10, 21, 38, 39, 41, 44, 45

Recreation and

Conservation Office

Funded Projects:

\$33.8 million,

89 projects,

\$10.8 million in matching resources

Founded in 1998, the Snohomish Basin Salmon Recovery Forum is a 41-member voluntary group of citizens, businesses, tribal representatives, farmers, and elected officials, who guide conservation efforts in the Snohomish River basin. The forum's mission is "To protect and restore the ecological health of the Snohomish River Basin including biodiversity, hydrology and water quality to enhance the productivity and diversity of all wild salmon stocks to a level that will sustain fisheries and non-consumptive salmon-related cultural and ecological values." The forum's initial focus was on salmon recovery planning. With the completion of the *Snohomish Basin Salmon Conservation Plan*, the roles of the forum are now to promote implementation of the conservation plan, monitor implementation and adaptively manage the plan over time, advocate for continued funding and identify new sources of funding to implement the plan, provide a forum for local governments and organizations to coordinate and communicate about watershed issues, respond to Endangered Species Act listings at the local level, and actively engage with the Puget Sound Partnership to implement the 2020 *Action Agenda* for Puget Sound.



LEAD ENTITY COORDINATOR

Denise Di Santo

(425) 388-6403

denise.disanto@snoco.org



Construction of wood complexes in the Skykomish, Snohomish, and Sultan Rivers slows the rivers and creates places for salmon to rest, hide from predators, feed, and grow.



Angler in the Tolt River

TECHNICAL COMMITTEE

(continued from right)

Mindy Rowse

National Marine Fisheries Service

Ralph Svrjcek

Washington Department of Ecology

Micah Wait, Mary Lou White

Wild Fish Conservancy

PAST AND CURRENT

PROJECT SPONSORS

Adopt A Stream Foundation

City of Everett

City of Seattle

Ducks Unlimited – Vancouver Chapter

Forterra

King Conservation District

King County

Snohomish Conservation District

Snohomish County

Snohomish County Lead Entity

Sound Salmon Solutions

Stewardship Partners

Stillaguamish Tribe of Indians

Tulalip Tribes

Washington Department of Fish

and Wildlife

Wild Fish Conservancy

SNOHOMISH BASIN

SALMON RECOVERY FORUM

(continued from previous page)

Bob Pancoast

East King County Regional

Water Association

Mike Pattison

Master Builders Association

Dale Reiner, Andy Werkhoven

Snohomish County agriculture

Skip Schott

Cross Valley Water District

Linda Scott

City of Carnation

Robert Sendry

Sound Salmon Solutions

Dave Somers

Snohomish County

Ann Stanton

City of Snohomish

Ray Stephanson

City of Everett

Amy Turner

Sno Valley Tilth

Neil Wheeler

Coordinated Diking Council

Terry Williams

Tulalip Tribes

TECHNICAL COMMITTEE

Bob Aldrich, Mike Rustay

Snohomish County

Keith Binkley

Snohomish County

Public Utility District

Mike Crewson, Josh Kubo,

Josh Meidav, Kurt Nelson

Tulalip Tribes

Cindy Dittbrenner, Monte Marti

Snohomish Conservation District

Heather Griffin

City of Everett

Jon Houghton

Pentec Environmental

for City and Port of Everett

Janne Kaje, Beth leDoux

King County

Denise Krownbell, Scott Powell

City of Seattle

Kirk Lakey

Washington Department of Fish

and Wildlife

Kevin Lee

Sound Salmon Solutions

(continued on left)





GEOFFREY McMICHAEL

WATERSHED COUNCIL

Bill Blake, Co-chair

City of Arlington

Pat Stevenson, Co-chair

Stillaguamish Tribe of Indians

Sandy Atkinson

Evergreen Fly Fishing Club

Andrew Corbin

Washington State University Extension

Ben Curley

South Fork Stillaguamish River resident

Peter Forbes

U.S. Forest Service

Allen Gibbs

Pilchuck Audubon Society

Eric Hanson

Main stem Stillaguamish River resident

Chuck Hazleton

Stillaguamish River Flood

Control District

Doug Hennick

Wild Fish Conservancy

Kevin Hushagen

City of Stanwood

Kirk Lakey

Washington Department of Fish

and Wildlife

Monte Marti

Snohomish Conservation District

Kat Morgan

The Nature Conservancy

Kurt Nelson

Tulalip Tribes

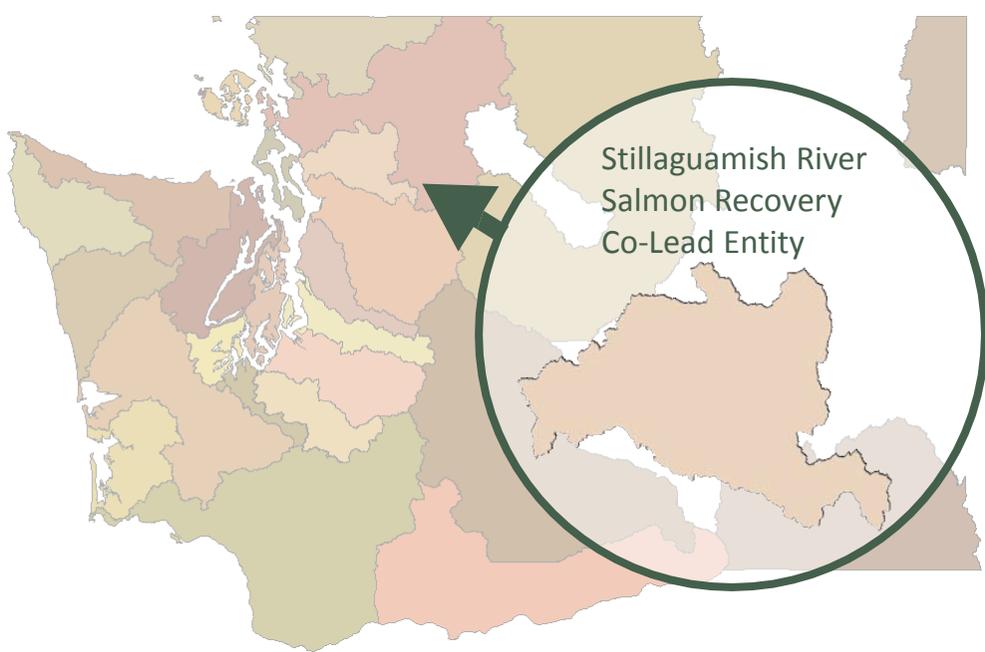
Dave Ridgeway

Clean Water District Board

Jesse Scott

Recreational fisherman

(continued on next page)



Stillaguamish River Salmon Recovery Co-Lead Entity

Area: 448,000 acres

Population: 58,441

Fish-bearing Streams:

890 miles

Marine Shoreline:

37 miles

Water Resource

Inventory Area: 5

Congressional

Districts: 1, 2

Legislative Districts:

10, 38, 39

Recreation and

Conservation Office

Funded Projects:

\$23.4 million,

80 projects,

\$10.4 million in

matching resources

The Stillaguamish River basin in northwest Washington drains 700 square miles from the west slopes of the north Cascade Mountains to Port Susan and Skagit Bay in Puget Sound. It contains about 3,100 miles of river, stream, and marine shoreline. The lead entity for the Stillaguamish basin is co-managed by the Stillaguamish Tribe of Indians and Snohomish County.

The Stillaguamish Watershed Council serves as the citizens committee and has 24 members, representing local communities and governments, tribes, agriculture and forestry interests, flood control districts, and environmental groups. The Stillaguamish Watershed Council’s mission is to maintain a healthy, functioning Stillaguamish watershed by providing a local forum in which agencies, organizations, communities, and the public can engage in a collaborative watershed-based process of decision making and coordination. The council worked collaboratively to develop the *Stillaguamish Watershed Chinook Salmon Recovery Plan* adopted as a chapter of the federal recovery plan. Priority actions in the plan are based on limiting factors and include estuary, floodplain, and streamside restoration as well as large wood placement, hydrologic protection, and landslide treatments to reduce fine sediment in the Stillaguamish River.



LEAD ENTITY COORDINATOR

Donald “Kit” Crump (and son Gabe)

(425) 388-3464 Ext. 4658

Donald.crumpp@co.snohomish.wa.us



The Nature Conservancy used several grants to restore tidal flow to 150 acres of the Port Susan Bay estuary in Snohomish County. The estuary provides spawning and rearing habitat for multiple salmon species including Chinook salmon, which are listed as threatened with extinction through the federal Endangered Species Act.



Reconnecting the North Meander Slough to the main channel of the Stillaguamish River restored more than three-quarter mile of off-channel habitat, and created 12 acres of off-channel rearing habitat for Chinook salmon.



A series of logjams have been placed in the North Fork Stillaguamish River to create places for Chinook salmon to rest, feed, and hide from predators.

WATERSHED COUNCIL

(continued from previous page)

Robert Sendrey

Sound Salmon Solutions

Allen Staringer

Pilchuck Tree Farm

Ray Sturtz

City of Granite Falls

Ralph Svrjcek

Washington Department of Ecology

Duane Weston

Washington Farm

Forestry Association

Kelly Wynn

Warm Beach Christian Camp

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City of Arlington

Kit Crump, Frank Leonetti

Snohomish County

Jason Griffith, Pat Stevenson

Stillaguamish Tribe of Indians

Doug Hennick, Mary Lou White

Wild Fish Conservancy

Greg Johnston

The Watershed Company

Kirk Lakey, Paul Marczin

Washington Department of Fish and Wildlife

Kevin Lee

Sound Salmon Solutions

Derek Marks

Tulalip Tribes

Kristin Marshall, Ryan Williams

Snohomish Conservation District

Chris Stewart

U.S. Forest Service

PAST AND CURRENT PROJECT SPONSORS

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City of Bellevue

Ducks Unlimited

Forterra

King County

Snohomish Conservation District

Snohomish County

Sound Salmon Solutions

Stillaguamish Flood Control District

Stillaguamish Tribe of Indians

The Nature Conservancy

Wild Fish Conservancy





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Ray Campbell
Okanogan County commissioner
Steve Jenkins
Douglas County commissioner

Bill Towey
Confederated Tribes of the Colville Reservation

Ron Walter
Chelan County commissioner
Paul Ward
Confederated Tribes and Bands of the Yakama Nation

Derek Van Marter
Executive director

CITIZEN COMMITTEES

CHELAN COUNTY
Mike Deason
Construction industry, former city of Leavenworth

Jerry Gutzwiler
Former Washington Fish and Wildlife Commission

Hal Hawley
Board of Cascadia Conservation District

Buford Howell
Icicle Creek Coalition

Dave Graybill
Fishin Magician

Rick Smith
Wenatchee Reclamation District
(continued on next page)



Upper Columbia Salmon Recovery Board Lead Entity

Area:
5.26 million acres
Population: 153,859
Fish-bearing Streams:
1,050 miles
Water Resource Inventory Areas:
40, 44, 45, 46, 47, 48, 49, 50
Congressional Districts: 1, 4, 8
Legislative Districts:
7, 12, 13, 39, 42
Recreation and Conservation Office Funded Projects:
\$34.3 million, 180 projects, \$32.5 million in matching resources



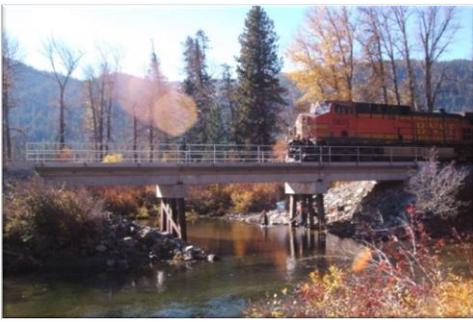
The mission of the Upper Columbia Salmon Recovery Board is to restore viable and sustainable populations of salmon, steelhead, and other at-risk species through collaborative, economically sensitive efforts, combined resources, and wise resource management of the upper Columbia River region.

This region encompasses more than 5 million acres; an area larger than Rhode Island, Delaware, and Connecticut, combined. Geographically, the area is defined by the confluence of the Columbia and Yakima Rivers and goes north to the base of Chief Joseph Dam. The region also includes the Entiat, Methow, Okanogan, and Wenatchee River systems.

The Upper Columbia Salmon Recovery Board is a non-profit organization and consists of a five-member board of directors comprised of commissioners from Chelan, Douglas, and Okanogan Counties, and representatives of the Confederated Tribes of the Colville Reservation and the Confederated Tribes and Bands of the Yakama Nation. The board is the lead entity and a regional salmon recovery organization tasked with coordinating and implementing the federal *Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan*. The plan prioritizes actions that contribute to the delisting of three independent populations of spring Chinook, four steelhead populations, and bull trout.

LEAD ENTITY COORDINATOR

Joy Juelson
(509) 433-2999
Joy.Juelson@ucsrb.org



Construction of the railroad in the mid-1890s cut off about 2 miles of Nason Creek where the stream meandered through wetlands west of the State Route 2 rest area between Steven’s Pass and Leavenworth. The project replaced a small, undersized culvert under the railroad prism with a wide-span concrete bridge.



Nason Creek has some of the highest production value for spring Chinook and steelhead in the region. The new bridges now allow fish access to 152 acres of floodplain wetland accounting for 39 percent of the total acres of disconnected floodplain within Nason Creek.



Tour of salmon recovery project sites with grant applicants, Regional Technical Team, Recreation and Conservation Office, Salmon Recovery Funding Board Review Panel, Citizen’s Advisory Committee, and others.

PAST AND CURRENT PROJECT SPONSORS

- Cascade Columbia Fisheries Enhancement Group
- Cascade Conservation District
- Chelan County
- Chelan County Conservation District
- Chelan County Public Utilities District
- Chelan-Douglas Land Trust
- Chewuch Basin Council
- Chewuch Canal-Fulton Ditch Company
- City of Okanogan
- Confederated Tribes and Bands of the Yakama Nation
- Confederated Tribes of the Colville Reservation
- Ferry Conservation District
- Fisheries Consultants, Inc.
- Foster Creek Conservation District
- Lake Chelan Sportsman’s Club
- Methow Conservancy
- Methow Salmon Recovery Foundation
- National Forest Foundation
- Okanogan Conservation District
- Okanogan County
- Okanogan Irrigation District
- Pacific Watershed Institute
- Pend Oreille Conservation District
- Trout Unlimited Inc.
- Washington Department of Fish and Wildlife
- Wolf Creek Reclamation District

OKANOGAN COUNTY

- Jerry Barnes**
Okanogan County Watershed Planning Unit
- Will Keller**
Natural Resources Conservation Service
- Bob Monetta**
Realtor
- Craig Nelson**
Okanogan Conservation District
- Don Phillips**
Methow Valley Irrigation
- Louis Sukovaty**
Farmer, citizen
- Dale Swedberg**
Washington Department of Fish and Wildlife

REGIONAL TECHNICAL TEAM

- Chuck Peven, Chair**
Peven Consulting, Inc.
- John Arteburn**
Confederated Tribes of the Colville Reservation
- Casey Baldwin**
Confederated Tribes of the Colville Reservation
- Dale Bambrick**
National Marine Fisheries Service
- Steve Hays**
Chelan County Public Utilities District
- Tracy Hillman**
BioAnalysts, Inc.
- Tom Kahler**
Douglas County Public Utilities District
- Joe Lange**
Natural Resource Conservation Service
- Russell Langshaw**
Grant County Public Utilities District
- Keely Murdoch**
Confederated Tribes and Bands of the Yakama Nation
- Karl Polivka**
U.S. Forest Service, Pacific Northwest Research Lab
- Brandon Rogers**
Confederated Tribes and Bands of the Yakama Nation
- Kate Terrell**
U.S. Fish and Wildlife Service
- Mike Ward**
Terraqua Consulting





GEOFFREY McMICHAEL

WATERSHEDS COUNCIL

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Kitsap County

Chris Waldbillig, Co-chair

Washington Department of Fish and Wildlife

Bainbridge Island Land Trust

City of Bainbridge Island

City of Bremerton

City of Gig Harbor

City of Port Orchard

City of Poulsbo

Clear Creek Task Force

EarthrightInsight

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Key Peninsula Parks

Kitsap Conservation District

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Kitsap Naval Base

Mid Sound Fisheries

Enhancement Group

National Marine Fisheries Service

Northwest Indian Fisheries Commission

Northwest Space and Naval

Warfare Systems

Pierce Conservation District

Pierce County

Squaxin Island Tribe

Still Hope Productions

Stillwaters Environmental Center

Suquamish Tribe

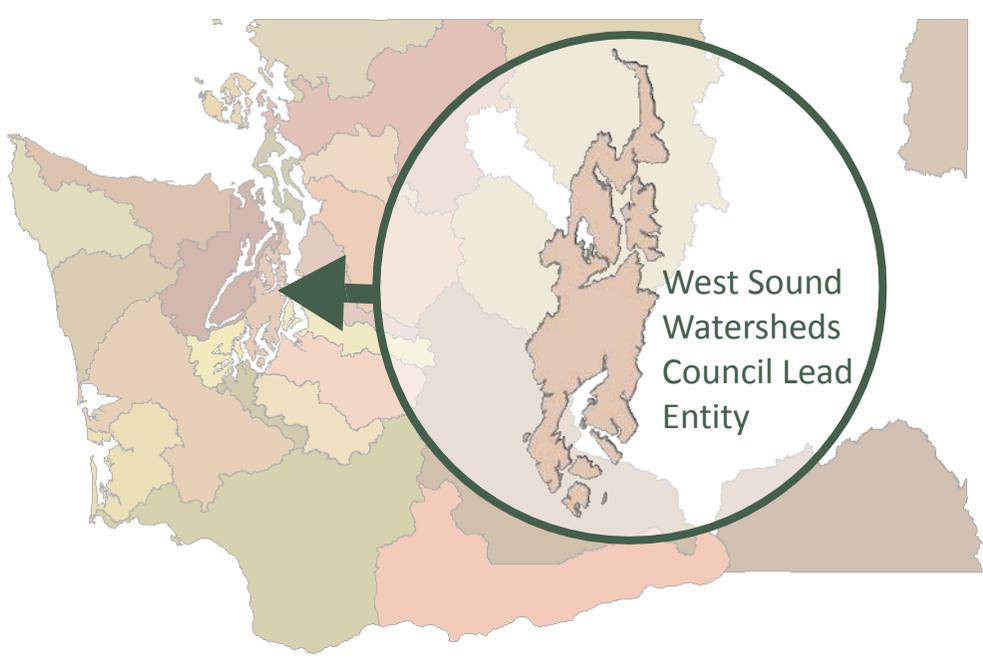
Washington Department of Ecology

Washington Department of Fish

and Wildlife

Washington Sea Grant

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West Sound Watersheds Council Lead Entity

West Sound Watersheds Council Lead Entity

Area: 394,000 acres

Population: 300,000

Fish-bearing Streams:

120 miles

Marine Shoreline:

360 miles

Water Resource

Inventory Area: 15

Congressional

Districts: 6, 10

Legislative Districts:

23, 26, 28, 35

Recreation and

Conservation Office

Funded Projects:

\$26.5 million,

87 projects,

\$9.7 million in

matching resources

The West Sound Watersheds Council Lead Entity covers the eastern portion of Water Resources Inventory Area 15, excluding Hood Canal and Vashon and Maury Islands. The West Sound Watersheds Council Lead Entity encompasses 394,000 acres and includes the islands of Anderson, Bainbridge, Blake, Fox, Herron, Ketron, McNeil, and Raft; the cities of Bainbridge Island, Bremerton, Gig Harbor, Port Orchard, Poulsbo; and parts of Kitsap, Mason, and Pierce Counties. There are 360 miles of saltwater shoreline and more than 120 salmonid-bearing streams. Headwaters for all streams are low elevation, ground water sources with associated wetlands; there are no large rivers or snow-fed streams.

The shorelines are diverse and plentiful, with many small embayments, estuaries at the mouths of small streams, and larger coastal inlets. Chinook salmon from all over Puget Sound have been documented year-round along west Sound shores, actively feeding and finding refuge from predators. The Puyallup Tribe of Indians, Squaxin Island Tribe, and Suquamish Tribe have usual and accustomed fishing in the area. The council's salmon recovery strategy focuses on the protection and restoration of near-shore areas, protection of freshwater habitat, and the correction of fish passage barriers. For more information, visit www.westsoundwatersheds.org.



LEAD ENTITY COORDINATOR

Marian Berejikian

(360) 337-7098

mberejikian@co.kitsap.wa.us



(Before) Culvert in Chico Creek under Kitty Hawk Drive Northwest. The road, which ran parallel to State Route 3, was removed along with the culvert underneath it.



(After) Chico Creek with the remaining culvert at the State Route 3.



Chico Creek, looking downstream to estuary and large woody materials placed in the creek

PROJECT SPONSORS *(continued from right)*

Port of Bremerton
 Liberty Bay Foundation
 Mason Conservation District
 Mid Sound Fisheries Enhancement Group
 Pierce County

Pierce Conservation District
 South Puget Sound Salmon Enhancement Group
 Squaxin Island Tribe
 Suquamish Tribe
 Wild Fish Conservancy

WATERSHED COUNCIL *(continued from previous page)*

Washington State University Extension
 West Central LIO
 Wild Fish Conservancy

TECHNICAL ADVISORY GROUP

Tom Ostrom, Chair
 Suquamish Tribe
Jamie Glasgow, Vice Chair
 Wild Fish Conservancy
Chance Berthiaume
 City of Bremerton
Paul Dorn
 Suquamish Tribe
Marty Ereth
 Pierce County
Troy Fields
 Mid Sound Fisheries Enhancement Group
Tom Flagg, Chris Tatara
 National Marine Fisheries Service
Brenda Padgham, Deborah Rudnick
 Bainbridge Island Land Trust
Scott Pascoe
 Great Peninsula Conservancy
Kathleen Peters, Renee Scherdnik
 Kitsap County
Scott Steltzner
 Squaxin Island Tribe
Chris Waldbillig
 Washington Department of Fish and Wildlife
Kristin Williamson
 South Puget Sound Salmon Enhancement Group

PAST AND CURRENT PROJECT SPONSORS

Bainbridge Island Land Trust
 Bainbridge Island Metropolitan Park and Recreation District
 City of Bainbridge Island
 City of Bremerton
 City of Poulsbo
 Forterra
 Great Peninsula Conservancy
 Key Peninsula Metropolitan Park District
 King County
 Kitsap Conservation District
 Kitsap County
(continued on left)



GEOFFREY McMICHAEL

SALMON RECOVERY STAFF TEAM

Dave Beatty

Nooksack Salmon Enhancement Association

George Boggs

Whatcom Conservation District

Eric Carabba

Whatcom Land Trust

Alan Chapman

Lummi Nation

Treva Coe

Nooksack Indian Tribe

Ned Currence

Nooksack Indian Tribe

Barbara Fisher

Lummi Nation

Clare Fogelsong

City of Bellingham

Jeremy Gilman

U.S. Forest Service

Joel Ingram

Washington Department of Fish and Wildlife

Jill Komoto

Lummi Nation

Cliff Strong

Whatcom County

John Thompson

Whatcom County



WRIA 1 Salmon Recovery Board Lead Entity

WRIA 1 Salmon Recovery Board Lead Entity

Area:

1,410 square miles

Population: 200,000

Fish-bearing Streams:

782 miles

Marine Shoreline:

155 miles

Water Resource Inventory Area: 1

Congressional Districts: 1, 2

Legislative Districts:

39, 40, 42

Recreation and Conservation Office

Funded Projects:

\$32.2 million,

117 projects,

\$11.7 million in

matching resources

The local vision for salmon recovery in Water Resource Inventory Area (WRIA) 1 is to recover self-sustaining salmonid runs to harvestable levels through the restoration of healthy rivers and natural stream processes, careful use of hatcheries, and responsible harvest, and with the active participation and support of local landowners, businesses, and the community.

The Nooksack River watershed (WRIA 1) covers 1,410 square miles, largely in Whatcom County, but extends 21 square miles into Skagit County and 147 square miles into British Columbia, Canada. The Nooksack River system originates on Mount Baker and Mount Shuksan. From the headwaters, the Nooksack River flows westerly through forest and farmland and past small cities to reach sea level at Bellingham Bay. Spring and early summer snowmelt feed the North, Middle, and South Forks of the Nooksack River that combine to form the main stem Nooksack River near Deming. Glacial meltwater continues to feed the North and Middle Forks from mid-summer to early fall once the snowmelt is complete. Rainfall and ground water contribute flow to the Nooksack River and are primary flow sources for lowland tributaries and independent coastal streams.

The *WRIA 1 Salmonid Recovery Plan* restoration strategy prioritizes actions with the most immediate benefit to Endangered Species Act-listed species, and primarily North Fork, Middle Fork, and South Fork Nooksack early Chinook salmon.

LEAD ENTITY CONTACT

Becky Peterson

(360) 392-1301

genevaconsulting@comcast.net



Seven logjams were built and one natural logjam stabilized on the South Fork Nooksack River near Todd Creek as part of a project by the Nooksack Indian Tribe to increase habitat diversity for Chinook salmon. The work will increase the frequency and depth of holding pools and increase the areas of the river that are shaded and have cool temperatures.



Alan Chapman, Endangered Species Act coordinator for Lummi Nation Natural Resources, participates in a survey of potential Chinook habitat above the Middle Fork Nooksack River diversion dam.

SALMON RECOVERY BOARD

Local Governments

Bellingham
Blaine
Everson
Ferndale
Lynden
Nooksack
Sumas
Whatcom County

Salmon Co-managers

Lummi Nation
Nooksack Indian Tribe
Washington Department of Fish and Wildlife

TECHNICAL AND COMMUNITY COMMITTEE

Citizens
Flood District Advisory Committee
Lummi Nation
Nooksack Indian Tribe
Nooksack Salmon Enhancement Association
Small cities
U.S. Forest Service
Washington Department of Ecology
Washington Department of Fish and Wildlife
Washington Department of Natural Resources
Washington State University Cooperative Extension
Western Washington University
Whatcom Conservation District
Whatcom County
Whatcom Land Trust

PAST AND CURRENT PROJECT SPONSORS

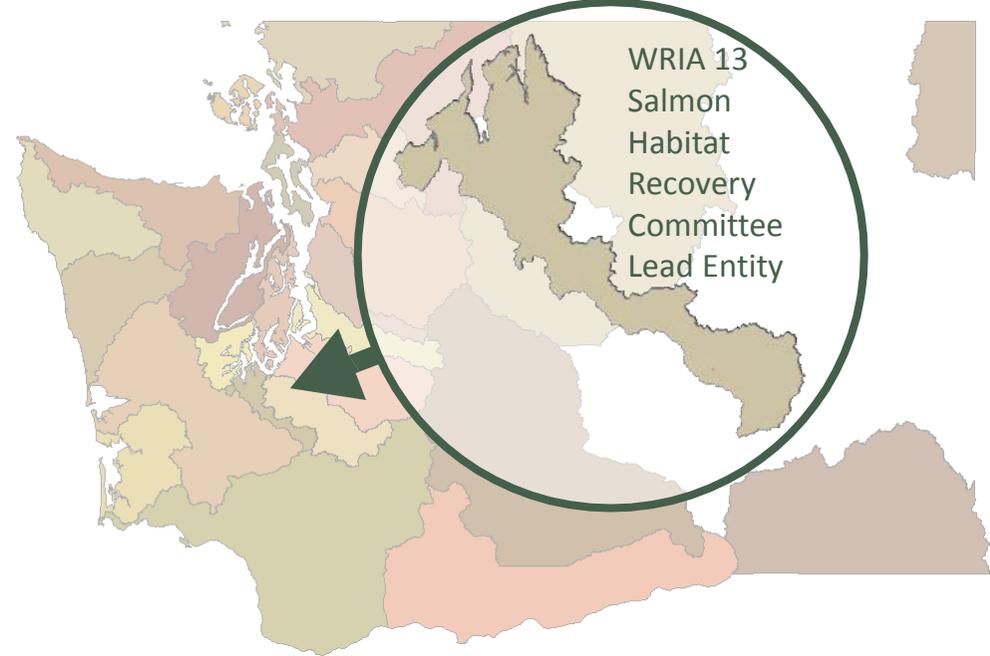
City of Bellingham
Lummi Nation
Nooksack Indian Tribe
Nooksack Salmon Enhancement Association
Washington Department of Fish and Wildlife
Whatcom County
Whatcom County Flood Control Zone District
Whatcom County Noxious Weed Control Board
Whatcom Land Trust





WRIA 13 SALMON HABITAT RECOVERY LEAD ENTITY TECHNICAL COMMITTEE

- Rich Carlson**
U.S. Fish and Wildlife Service
- Jamie Glasgow**
Wild Fish Conservancy
- Darric Lowery**
Washington Department of Fish and Wildlife
- Allison Osterberg**
Thurston County
- Laurence Reeves**
Capitol Land Trust
- Scott Steltzner**
Squaxin Island Tribe
- Michelle Stevie**
City of Olympia
- Jerilyn Walley**
South Puget Sound Salmon Enhancement Group
- Sarah Zaniewski**
Squaxin Island Tribe



WRIA 13 Salmon Habitat Recovery Committee Lead Entity

Area: 186,912 acres
Population: 129,834
Fish-bearing Streams: 121 miles
Marine Shoreline: 70 miles
Water Resource Inventory Area: 13
Congressional Districts: 3, 10
Legislative Districts: 2, 22
Recreation and Conservation Office
Funded Projects: \$7.4 million, 56 projects, \$4.2 million in matching resources

The WRIA 13 Salmon Habitat Recovery Committee works to recover salmon habitat in south Puget Sound, inclusive of the freshwater streams that drain into Budd, Eld, and Henderson Inlets. These riverine systems influence a rich diversity of natural resources and culture. The health of these mixed-use watersheds is at a crossroads, with the abundant resources that support multiple species also attracting a growing number of people who also value the productive landscape. Thurston County is the third most rapidly growing county in the state and that development pressure creates a need for a delicate balance between people and natural resources.

Land cover includes a mix of forested lands; agricultural uses; rural, residential, and urban lands; and private and state-owned timberlands dominating the headwaters of most of the river systems.

The Salmon Habitat Recovery Committee is comprised of numerous non-profits; local, state, and federal governments; the Squaxin Island Tribe; and citizens, all working collaboratively to protect and recover salmon in the south Sound. The committee focuses tremendous efforts on McLane Creek and the Deschutes River, while also protecting bluff-backed beaches and restoring the small estuaries that dominate southern Puget Sound.



LEAD ENTITY COORDINATOR

Amy Hatch-Winecka
 (360) 754-3588 Ext. 103
amyhw@thurstoncd.com



Nine-year-olds learn about stream bugs at Priest Point Park in Olympia during Salmon Camp 2014. This week-long camp combines curriculum from the lead entity and staff from YMCA Summer Camp.



The Wild Fish Conservancy used a grant to replace a fish-blocking culvert on Snyder Cove Creek in Thurston County, opening 1 mile of fish habitat to cutthroat trout.



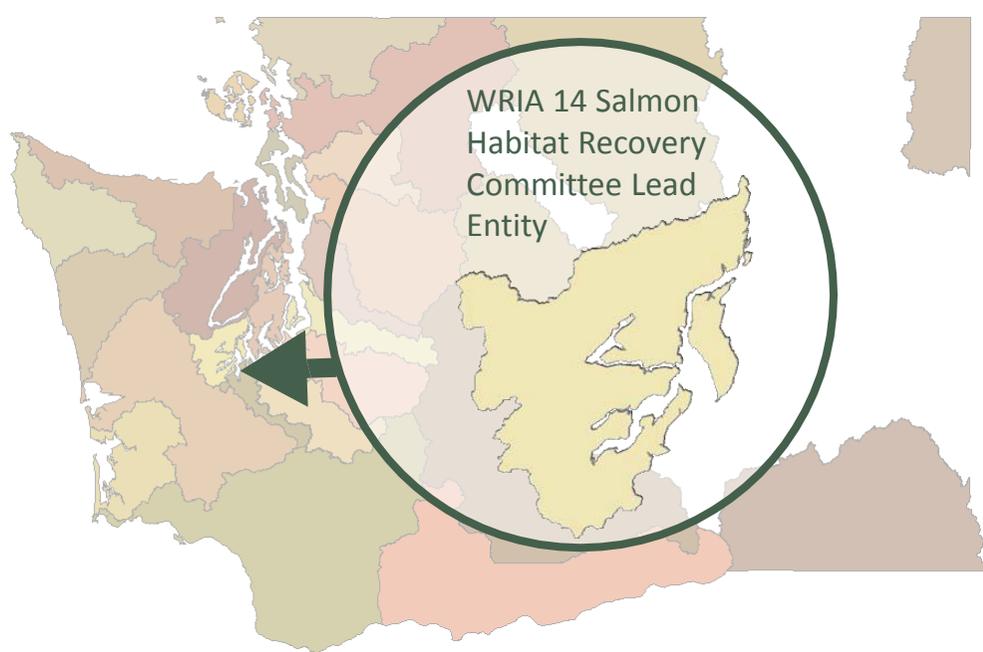
The South Puget Sound Salmon Enhancement Group used two grants to design and improve fish passage, creating a channel to connect saltwater to freshwater at Beachcrest estuary, along the Nisqually reach. Crews removed a rock bulkhead and replaced it with a more ecologically friendly structure that mixes some rock with large woody materials and salt-tolerant plants. Restoring and improving pocket estuaries can increase the survival of Chinook salmon in Puget Sound.

WRIA 13 SALMON HABITAT RECOVERY LEAD ENTITY CITIZEN COMMITTEE

- Kim Benedict**
City of Lacey
- Stephanie Bishop**
South Sound GREEN
- Michael Burnham**
Thurston Regional Planning Council
- Rick Hirschberg**
Citizen
- Jeanne Kinney**
Thurston County
- Sarah Moorehead**
Thurston Conservation District
- Steven Morrison**
Citizen
- Sue Patnude**
Deschutes Estuary Restoration Team
- Joe Roush**
City of Olympia
- Alex Smith**
Port of Olympia
- Debbie Smith**
City of Tumwater
- Ann Van Schweigen**
Capitol Land Trust
- Lydia Wagner**
Washington Department of Ecology
- Barb Wood**
Thurston County

PAST AND CURRENT PROJECT SPONSORS

- Capitol Land Trust
- City of Lacey
- City of Olympia
- City of Tumwater
- People for Puget Sound
- Port of Olympia
- South Puget Sound Salmon Enhancement Group
- Squaxin Island Tribe
- Thurston Conservation District
- Thurston County
- Thurston Regional Planning Council
- Washington Department of Fish and Wildlife
- Washington Department of Natural Resources
- Wild Fish Conservancy



WRIA 14 SALMON HABITAT RECOVERY LEAD ENTITY COMMITTEE

- Matt Barnhart**
Mason County
- Evan Bauder**
Mason Conservation District
- Rich Carlson**
U.S. Fish and Wildlife Service
- Brian Combs**
South Puget Sound Salmon Enhancement Group
- Jamie Glasgow**
Wild Fish Conservancy
- Jim Irving**
Citizen
- Jeanne Kinney**
Thurston County
- Laurence Reeves**
Capitol Land Trust
- Margie Schirato**
Washington Department of Fish and Wildlife
- Scott Steltzner**
Squaxin Island Tribe
- Charles Toal**
Washington Department of Ecology
- Sarah Zaniewski**
Squaxin Island Tribe

WRIA 14 Salmon Habitat Recovery Committee Lead Entity

- Area:** 244,146 acres
- Population:** 30,171
- Fish-bearing Streams:** 162 miles
- Marine Shoreline:** 158 miles
- Water Resource Inventory Area:** 14
- Congressional Districts:** 6, 10
- Legislative Districts:** 26, 35
- Recreation and Conservation Office Funded Projects:** \$14.3 million, 67 projects, \$7.4 million in matching resources

WRIA 14 encompasses 381 square miles of the southernmost end of Puget Sound and includes numerous independent streams that flow to Case, Eld, Oakland Bay/Hammersley, and Totten Inlets.

The region offers a rich diversity of intact natural resources. Timber and aquaculture are the dominant industries in the area, with shellfish the focal point in Oakland Bay, which produces two-thirds of the nation’s manila clams for commercial harvest each year.

This area expects tremendous growth in the next 25 years due to a stable economy, high quality of life, and low cost of living. Natural resources are abundant, with clean water the keystone for people and the species that share this area.

The Salmon Habitat Recovery Committee is comprised of numerous non-profits; local, state, and federal governments; the Squaxin Island Tribe; and citizens, all working collaboratively to protect and recover salmon in the south Sound.

The committee focuses tremendous efforts on Goldsborough Creek, while also protecting bluff-backed beaches and restoring the small estuaries that dominate southern Puget Sound.



LEAD ENTITY COORDINATOR

Amy Hatch-Winecka
(360) 427-9436 Ext. 10
amyhw@thurstoncd.com



PAST AND CURRENT PROJECT SPONSORS

Capitol Land Trust
Concurrent Technologies Corp
Mason Conservation District
Mason County
Skokomish Indian Tribe
Snohomish County
South Puget Sound Salmon
Enhancement Group
Squaxin Island Tribe
Thurston Regional Planning
Council
Washington State Parks and
Recreation Commission
Wild Fish Conservancy





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Adam Fyall

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Sam Jim
Paul Ward

Yakima County

Dan Olson, Vice Chair
Dave Brown, Treasurer
Dave Ettl
Terry Keenhan
Mike Leita

CITIZEN COMMITTEE

Benton County

Jack Clark
Ben Dow
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Confederated Tribes and Bands of the Yakama Nation

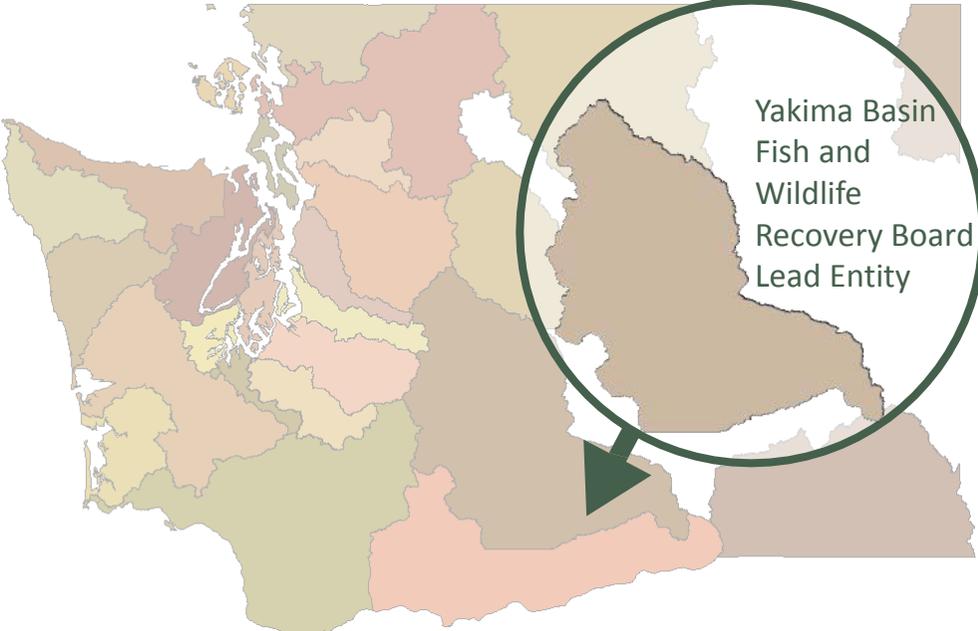
Tony Monroe
Tuck Russell
Emily Washines

Kittitas County

David Bowen
Mark Charlton
Matt Eslinger
McClure Tosch

Yakima County

Don Chaplin
Doug Mayo
Neil McClure
Onni Perala



Yakima Basin Fish and Wildlife Recovery Board Lead Entity

Area: 3.9 million acres
Population: 463,900
Fish-bearing Streams: 1,509 miles
Marine Shoreline: None
Water Resource Inventory Areas: 37, 38, 39
Congressional Districts: 4, 8
Legislative Districts: 8, 13, 14, 15, 16
Recreation and Conservation Office Funded Projects: \$19.6 million, 105 projects, \$9.8 million in matching resources

The Yakima River basin in south central Washington makes up 10 percent of the state (6,100 square miles). The basin runs from the crest of the Cascade Mountains to the Columbia River. Nearly 40 percent of the basin is forested, another 40 percent is rangeland, with 15 percent in cropland. The irrigated lowlands support some of the most diverse and productive agriculture in the United States. Apples, beef, cherries, hay, hops, mint, pears, dairies, and wine and juice grapes are all important commodities.

The Yakima Basin Fish and Wildlife Recovery Board is represented by 22 city, county, and tribal governments. Our mission is to restore sustainable and harvestable populations of salmon, steelhead, bull trout, and other at-risk fish and wildlife species through collaborative, economically sensitive efforts, combined resources, and wise resource management.

The board is the state-designated regional salmon recovery board for the Yakima basin, and wrote the *Yakima Steelhead Recovery Plan* and the *Yakima Bull Trout Action Plan*.

We also act as the lead entity for the Yakima basin. Priority actions identified in our plans include fish passage and screening, levee removals and setbacks, floodplain and in-stream habitat work, and projects that improve in-stream flows.,



LEAD ENTITY COORDINATOR
Darcy Batura
(509) 453-4104
dbatura@ybfwrp.org



The board worked with the Confederated Tribes and Bands of the Yakama Nation, local stakeholders, and federal and state agencies to write the 2009 *Yakima Steelhead Recovery Plan* and 2012 *Bull Trout Action Plan*. These plans detail what needs to be done to get these fish off the Endangered Species List. Now, each year we work with the Salmon Funding Recovery Board to get funding for the projects that do the best job of implementing those plans. It's a great example of how we are working together in Washington State to create strong, locally supported, and scientifically sound strategies for recovery.



(Top to bottom) 2012 project proposal site visits, Yakima River canyon, Bruton dam removal on Taneum Creek.

TECHNICAL COMMITTEE

Dale Bambrick

National Marine Fisheries Service

David Child

Yakima Basin Joint Board

John Easterbrooks

Washington Department of Fish and Wildlife

Joel Freudenthal

Yakima County

Sean Gross

National Marine Fisheries Service

Anna Lael

Kittitas County Conservation District

John Marvin, Scott Nicolai, Tom Ring

Confederated Tribes and Bands of the Yakama Nation

Heather Simmons

Washington Department of Ecology

Arden Thomas

Bureau of Reclamation

Jeff Thomas, Richard Visser

U.S. Fish and Wildlife Service

Rebecca Wassell

Mid-Columbia Fisheries

Enhancement Group

PAST AND CURRENT

PROJECT SPONSORS

Ahtanum Irrigation District

Badger Mountain Irrigation District

Benton Conservation District

City of Selah

City of Yakima

Confederated Tribes and Bands of the Yakama Nation

Cowiche Canyon Conservancy

Forterra

Robert Inouye

Kittitas Conservation Trust

Kittitas County

Kittitas County Conservation District

Mid-Columbia Fisheries

Enhancement Group

North Yakima Conservation District

Northwest Service Academy

South Central Washington

Resource Conservation and Development Council

Tree Top, Inc.

Washington Department of Fish and Wildlife

Yakima County

Yakima Greenway Foundation

Yakima-Tieton Irrigation District

Yakima Valley Restitution Center

**Washington State Recreation
and Conservation Office**

PO Box 40917

Olympia, WA 98504-0917

www.rco.wa.gov

