



SNOHOMISH COUNTY MARINE RESOURCES ADVISORY COMMITTEE



2012 ANNUAL REPORT & RECOMMENDATIONS

Snohomish County Marine Resources Advisory Committee (MRC)

Background / Introduction

The Snohomish County Marine Resources Advisory Committee (MRC) was established in 1999 to advise Snohomish County on approaches to conserve the local marine environment. Authorized by Chapter 2.800 of the Snohomish County Code, the MRC advises the County Council and Executive on marine resource issues. This report outlines MRC accomplishments between January 1, 2012 and December 31, 2012, includes a description of current projects and provides recommendations for the Snohomish County Executive and Council.

MRC members represent a balance of environmental, recreational, conservation, economic and local and tribal government interests. The MRC is part of the Northwest Straits Marine Conservation Initiative, guided by the Northwest Straits Commission (NWSC), which together comprise a non-partisan regional effort to protect and restore marine resources in northern Puget Sound and the Strait of Juan de Fuca. The Snohomish County Surface Water Management Division provides staff support for the MRC.

Since its inception, the MRC has developed an effective citizen-based process for examining local marine resource issues, engaging and educating the public and initiating efforts to address established priorities. These priorities are guided by the MRC Strategic Plan and the NWSC Benchmarks, which include marine habitat, marine life, marine water quality, science, and education and outreach.

The MRC continues to develop a variety of partnerships with government agencies, non-profit organizations and citizen groups to share resources and improve our long-term success. An integral part of the MRC's work is public education and involvement, including the training and use of volunteers. Without the help

of volunteers, the MRC would not be able to successfully complete many of its important projects.

The MRC's efforts have provided a solid foundation of tools and knowledge to fulfill its mission. With a strong emphasis on accountability, the MRC strives to maximize results, build stakeholder confidence and leverage external funds and partnerships.

The MRC is now implementing a number of marine conservation research, outreach, and on-the-ground projects, which leverage funds and expand partnerships throughout the county. The MRC is proud of its accomplishments over the past year and looks forward to further benefitting the marine resources in Puget Sound and the citizens of Snohomish County in 2013 and beyond.



Stillaguamish and Snohomish LIO Puget Sound
Champions Award Recipients

Successes and Highlights of 2012

Volunteer Hours

A combined total of 8,857 volunteer and in-kind support hours were leveraged through the work of the Snohomish Marine Resources Committee (1,363 hrs), Port Susan Marine Stewardship Area Team and supporting staff (453 hrs), and the WSU Snohomish County Extension Beach Watchers (7,041 hrs). These volunteer hours indicate a high level of community support.



Port Susan Measures Workshop Participants

Port Susan Marine Stewardship Area

In 2012, work on the Port Susan Marine Stewardship Area (MSA) culminated in the completion of Phase II of the Conservation Action Plan (CAP). The plan defines a community vision for the enhanced stewardship of Port Susan. It builds on the knowledge of scientists and community members and the foundation of existing management plans. Project leaders from the Snohomish and Island County MRCs, Tulalip Tribes, Washington Sea Grant, The Nature Conservancy, and the Stillaguamish Tribe have worked diligently to develop the plan by contributing 453 volunteer and in-kind support hours in 2012.

The Phase II CAP includes a workplan and measures plan that will guide the collaborative team. The workplan is based on the strategies identified for enhanced stewardship through the planning process, and will further develop measures to monitor strategy effectiveness (pending funding). The Phase II plan is available on the Snohomish County MRC webpage.

Nearshore Beach Restoration

The proposed Snohomish County Beach Restoration Project will nourish the beach at four locations along the 4.5 mile drift cell of the railroad impounded shoreline between Mukilteo and Everett.

The placement of clean, appropriately sized sediment material at several locations throughout this drift cell will improve salmon productivity and juvenile capacity (SBSRS, 2005), which is a "most pressing need" (highest priority and sequence) in the Snohomish Basin Salmon Recovery 3-yr work plan. The sediment source identified for nourishment is clean dredge material collected from the Snohomish River by the U.S. Army Corps of Engineers in cooperation with the Port of Everett and the Washington State Department of Natural Resources.

An Estuary and Salmon Restoration Program (ESRP) grant for \$1.1 million was submitted for consideration in November 2012. Of the \$1.1 million request, a reduced amount of \$600,000 for construction was awarded for the Howarth Park Project.

The Salmon Recovery Funding Board has provided \$254,057 for the Nearshore Beach Nourishment Design and Permitting. (12-1241P)

Port Susan Planners Workshop

On September 13, 2012, over 25 planners from Snohomish Planning and Development Services and Island County attended a workshop hosted by the MRC and the Coastal Training Center to learn about Coastal Processes. The workshop included training from Jim Johannessen and a site visit to Cavalero County Park. Grant funding was provided for county staff to attend.

Public Education and Outreach

2012 Accomplishments

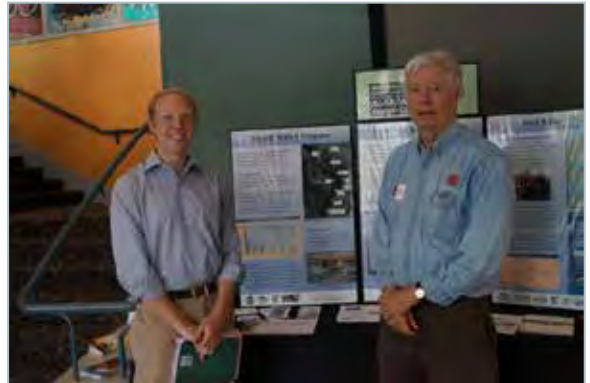
Marine Mammal Signs – The MRC funded the purchase of nine Marine Mammal Stranding Network signs in 2011. In April 2012, the City of Everett installed one of these Share the Shore with Harbor Seals educational signs at Howarth Park.

Ocean Frontiers Film Screening – On June 21, 2012, the MRC partnered with the City of Everett to host a screening of the ocean stewardship film, Ocean Frontiers. A panel discussion with three local and regional experts followed the film. A total of 63 people attended.

Stillaguamish Festival of the River – The MRC participated in the Stillaguamish Festival of the River on August 10-12, 2012 at River Meadows Park in Arlington. The MRC had a display table in Snohomish County Surface Water Management's booth, which focused on simple choices for clean water.



Share the Shore with Harbor Seals Sign at Howarth Park



MRC members, Simon Geerlofs and Lincoln Loehr, presenting the MRC booth at the Ocean Frontiers film screening

2012 Workplan Highlights

Education and Outreach Subcommittee

The MRC booth was displayed at the following events:

- Our Puget Sound In-Depth: Salmon and Toxics in the Marine Environment
- Sound Waters
- Snow Goose Festival
- Our Puget Sound In-Depth: Bears to Barnacles: Cool Animals of the Salish Sea
- Ocean Frontiers Film Screening
- Stillaguamish Festival of the River
- Sound Living
- NWSC Conference

NWSC Benchmarks Achieved:

Education and Outreach

Washington State University Snohomish County Extension Beach Watchers

The MRC continued partnership and funding support for the WSU Snohomish County Extension Beach Watchers program in 2012.

Fourteen Beach Watchers graduated from the 2012 training program and became involved in MRC projects and other local efforts. WSU Beach Watcher volunteers contributed 7,041 hours of service.

NWSC Benchmarks Achieved:

Education and Outreach

Dungeness Crabber Education & Stewardship

2012 Accomplishments

Derelict Crab Pot Removal – Snohomish County hired Natural Resource Consultants, Inc. to run a sidescan sonar survey and remove derelict crab pots in the Port Gardner Study Area. 100% of the 121 derelict crab pots identified in the area were successfully removed between December 21 and 28, 2012. The majority of these pots accumulated since derelict gear was last removed from the project area in the fall of 2011. Research shows a single derelict pot can trap and kill an average of 22 harvestable crabs per year. Removing derelict gear helps restore critical marine habitat and provides more Dungeness crab for harvest.



Derelict crab pot full of Dungeness crab removed from Port Gardner in 2012



Derelict gear removed from Port Gardner and gear removal crew members

2012 Workplan Highlights

Dungeness Crabber Education

During the summer crabbing season, the MRC partnered with WSU Snohomish County Extension Beach Watchers to distribute outreach materials aimed at affecting behavior change to reduce the number of recreational crab pots lost and increase regulation compliance.

The MRC provided 1,500 copies of the “Keep Your Crab Pot, Eat More Crab” nautical chart to be placed in packets of educational materials and distributed to recreational crabbers during the summer crabbing season. The charts, printed on Rite-in-the-Rain paper, feature best management practices to reduce the number of lost crab pots.

Additionally, the Recreational Crabber Subcommittee worked with the WSU Beach Watchers and WDFW to design an educational display to be placed in stores that sell crabbing licenses and gear.

Did you know?

An estimated 12,000 crab pots are lost in the Puget Sound each year!

NWSC Benchmarks Achieved:

Education & Outreach, Marine Life, Marine Habitat

Nearshore Habitat Protection & Restoration

2012 Accomplishments

Nearshore Beach Restoration Project – Howarth Park Beach Restoration and sediment nourishment at key locations along the railroad impounded shoreline between Mukilteo and Everett were selected for design development.

The project team is in the process of completing the 100% project design and working to obtain grant funding for construction.

Port Susan Marine Stewardship Area Conservation Action Plan – In 2012, work on the Port Susan Marine Stewardship Area (MSA) resulted in the completion of Phase II of the Conservation Action Plan (CAP).

Forage Fish Spawning Survey – Study findings document two species of forage fish spawning along this shoreline segment. These data provide “baseline” information on spawning activities. The baseline data will be compared to sample results that will be collected after the beach restoration to document whether additional forage fish spawning occurs in the expanded habitat areas.

Forage Fish Spawning Survey Sediment Analysis – Sediments collected from the Forage Fish Spawning Survey sites between October 2011 and November 2012 were analyzed in December 2012. Sediment composition results will add to the monitoring activities for the proposed Nearshore Beach Restoration Project.



Frank Leonetti and Craig Wollam conducting forage fish spawning surveys in November 2012

2012 Workplan Highlights



Artist's rendering of the potential restoration project to remove riprap from the beach at Howarth Park in Everett.

Forage Fish Spawning Surveys

The MRC conducted pre-restoration monitoring of potential forage fish spawning within the Nearshore Restoration Project reach. Samples will be collected between October 2012 and February 2013 to look for the presence or absence of surf smelt and sand lance eggs. The results of the surveys will provide baseline data for the proposed restoration activities.

Key partners include WSU Snohomish County Extension Beach Watchers and forage fish expert, Dan Penttila.

NWSC Benchmarks Achieved:
Science, Marine Habitat

Port Susan Marine Stewardship Area



Living with the Coast Workshop attendees during the beach walk

Port Susan Marine Stewardship Area Conservation Action Plan

The Nature Conservancy's Conservation Action Planning (CAP) approach has guided the development of a Marine Stewardship Plan for Port Susan over the past five years. The plan aims to achieve a healthy marine and estuarine ecosystem with thriving biodiversity and strong recreational and resource based industries.

The project team used local and scientific knowledge to determine ecosystem recovery targets, threats and conservation strategies in partnership with over 100 stakeholders. Detailed action steps were developed through a collaborative process during Phase I and II of the planning process by MSA Advisory Team members, key agency partner meetings and during a Measures and Workplan workshop held on October 2nd, 2012.

During the Measures and Workplan workshop, 25 managers representing 17 different agencies developed measures and action steps for ten key strategic actions.

Following the workshop, the Core Team held eight partner meetings with key organizations to further develop and review actions steps. After receiving input from the Advisory Team and stakeholders, 22 of the 37 strategic actions developed during Phase I of the planning process were included in the Workplan.

A \$70,000 EPA grant facilitated this effort.

NWSC Benchmarks Achieved:

Education & Outreach, Science, Marine Habitat, Marine Life, Marine Water Quality

What is a Marine Stewardship Area?

A Marine Stewardship Area (MSA) is a non-regulatory conservation designation that works to generate responsibility within relevant authorities and users of marine environments for the conservation of natural, cultural, and scenic values.

Puget Sound Champion Award

The Snohomish County MRC and project partners received the 2012 Puget Sound Champions Award in recognition of developing a Conservation Action Plan for the Port Susan Marine Stewardship Area.

Partnering Agencies

- Island County MRC
- Tulalip Tribes
- Stillaguamish Tribe
- The Nature Conservancy
- WSU Extension of Snohomish County
- WSU Extension of Island County
- Washington Sea Grant
- Snohomish County SWM
- Stillaguamish Watershed Council
- Snohomish County Native Plant Program
- Snohomish Conservation District
- Snohomish County PDS

Western Hemisphere Shorebird Reserve Network (WHSRN)

Port Susan and Skagit Bay were designated as part of the (WHSRN). These regions were further defined as Sites of Regional Importance.

Living with the Coast Workshop

On October 13, 2012, over 60 marine shoreline landowners from Island and Snohomish Counties attended a workshop on Camano Island to learn about issues impacting the Puget Sound nearshore, shoreline processes and management alternatives. The workshop was sponsored by the Northwest Straits Foundation and conducted by the Island and Snohomish MRCs. Jim Johannessen and Stephanie Williams of Coastal Geologic Services led a classroom presentation and beach walk.

Marine Water Quality

2012 Accomplishments

Mussel Watch Sample Collection – In January 2012, volunteers and MRC members collected mussels from six sites in Snohomish County, as part of the national long-term monitoring study conducted by NOAA. The samples were sent to a laboratory for analysis of over 200 contaminants, including pesticides, metals, PCBs and PAHs. Data from this program are used to monitor chemical contaminant trends in Snohomish County marine waters.

Tsunami Debris Monitoring – The MRC submitted a list of proposed Snohomish County tsunami debris monitoring sites in response to a NWSC request. The sites included Edmonds Brackett's Landing, Mukilteo Lighthouse Park, the Everett Waterfront, and Kayak Point. These sites were selected based on the presence of drift log accumulations, site orientation, accessibility, and co-location with Mussel Watch sites.

WDFW Caged Mussel Study – The MRC partnered with the WDFW to deploy four cages of live mussels in Snohomish County in mid-November. The goal of the study is to determine where pollutants enter the Puget Sound and the concentrations animals are exposed to. Cages will be retrieved in January 2013.



MRC members and volunteers sampling native mussels at Hermosa Point



MRC member, Bob Hillmann, deploying a cage of live mussels in Everett Harbor

2012 Workplan Highlights

Snohomish County Mussel Watch

Lincoln Loehr, MRC Member, assisted Amy Leang, Shellfish Protection Intern, with writing a report entitled, "Interpreting Chemical Contaminant Data and Fish Consumption Guidelines for Port Susan and South Skagit Bay Shellfish." The report was drafted for the Stillaguamish River Clean Water District Advisory Board in September 2012.

WDFW Mussel Watch Pilot Expansion Study

With the assistance of the MRC and many other organizations around Puget Sound, the Washington Department of Fish and Wildlife (WDFW) deployed approximately 110 cages, containing 7,000 live mussels, throughout the Puget Sound for a two month period.

NWSC Benchmarks Achieved:

Science, Education and Outreach, Marine Water Quality



In May 2012, an article was published in the Everett Herald featuring MRC Member, Lincoln Loehr. Lincoln was photographed while collecting native mussels for the Snohomish County MRC's Mussel Watch Program.

Administrative Tasks

MRC Staffing

MRC staff received support from the Snohomish County Public Works and Surface Water Management for the Marine Resources Program. Beyond the MRC Program Manager and Lead Staff, Kathleen Herrmann, many SWM employees contributed time and expertise to MRC projects.

MRC Meetings and Communication

MRC staff organized MRC meetings, facilitated meeting and training logistics, and transcribed meeting minutes. Staff maintained phone and email contact with MRC members, MRC subcommittees, County staff, interns, contractors, local community groups, volunteers and the public.

The MRC's Northwest Straits Commission (NWSC) Representative and/or the Designated Alternate attended NWSC meetings on January 27, March 1-2, March 30, April 27, June 1, June 29, July 27, August 24, and November 30, 2012.

Nine Snohomish County MRC members and two MRC staff attended the NWSC conference in Port Townsend on November 2-3, 2012.

Grant Administration

MRC staff drafted and submitted progress reports, detailed deliverable task reports, all associated pictures and hardcopies to the Northwest Straits Commission and developed and tracked the MRC budget.

The MRC received two additional grants for Port Susan; a \$70,000 grant from the EPA and a \$100,000 grant from WDFW/WDNR contracted through the Northwest Straits Foundation. In addition, the MRC received construction funding for Howarth Park through ESRP grant for \$600,000 to fund a portion of the Nearshore Beach Restoration Project.

MRC Subcommittees

The MRC maintains several subcommittees including the Executive, Education and Outreach, Crabber Education, and Water Quality.

Strategic Plan

The MRC functions under the framework of the 2011-2016 Strategic Plan. The plan guides current and future MRC projects and efforts.

MRC Web Site

The MRC website features a user-friendly interface and individual project pages. It is regularly updated with events, project progress and interesting marine-related information. In 2012, the site received 2,608 visits.



MRC Website: www.snocomrc.org

MRC Members

In March 2012, Tom Hoban was appointed the new MRC Chair. Tom was also elected as the MRC representative to the NWSC with Lincoln Loehr and Kathleen Herrmann as alternates.

Paul Schlenger was appointed to serve as MRC Co-Vice Chair with Simon Geerlofs. Simon is a marine science and policy analyst with Pacific Northwest National Laboratory. Paul is a fish biologist and marine ecologist with Confluence Environmental Company.

Jerry Masters announced his resignation from the MRC. As chair of the Northwest Straits Foundation and governor's appointee to the NWSC, Jerry stepped down from the MRC to avoid a potential conflict of interest.

Susan Tarpley, City of Edmond's Discovery Program, and Bob Hillmann, City of Everett, were nominated as MRC members

MRC Member Training

See Attachment A for details.

Opportunities for 2013

Derelict Gear Prevention

In addition to the 12,000 crab pots lost annually in Puget Sound, derelict nets can also negatively impact marine life and habitat. Over 270 different species have been found in derelict nets. As the MRC has partnered with WSU Beach Watchers to share practices to minimize crab pot loss, the Northwest Straits Initiative (NWSI) has worked to remove derelict fishing nets throughout the Salish Sea. As of December 2012, the NWSI has removed 4,358 derelict fishing nets and 2,889 crab pots from the Puget Sound, restoring 616 acres of critical marine habitat. Over 291,015 animals have been removed from derelict gear since the program began in 2002.

The NWSI calculates a cost of \$190 to remove a single derelict crab pot. This high cost emphasizes the value of prevention. Continued outreach efforts are needed to promote best management practices to prevent crab pot loss and reduce derelict gear within Snohomish County waters and throughout the Salish Sea.

Nearshore Restoration Project

The Estuary and Salmon Recovery 2013 Investment Plan recommends funding the combined Snohomish County Nearshore Restoration Project. The construction costs are estimated at \$1.1 million of which the grant request was \$833K (\$600K for Howarth Park, \$233K for Beach Nourishment) with a required match coming from project partners of \$277K.

A reduced amount (\$600,000) was granted for construction, pending federal budget approval (sequestration ripple effect). The remaining grant request amount of \$233,000 is officially being requested from the State. The state funding request from the legislature is \$10 million statewide and our project falls just over that request. The County plans to continue to pursue other sources for the remaining \$233,000 assuming that the committed match of \$277K will still be available.

Marine Water Quality

According to the contaminant report written for the Clean Water District, data surrounding emerging contaminants are limited.

In an effort to understand the contaminants in the Puget Sound, the MRC partnered with the WDFW to participate in the regional mussel watch program. WDFW and partners conducted a pilot study of caged mussels in the Puget Sound. Cages were placed at over 100 locations which allowed for data collection at sites with and without native mussels. In Snohomish County, the MRC mussel cages were deployed at accustomed native mussel sampling sites, which permitted gathering two forms of data from each site for comparison.

Continuing to expand knowledge of the impacts and presence of contaminants in the Puget Sound are important for both biological health and the shellfish industry.



MRC members conducting crabber education on the use of rot cord to reduce the mortality rates of derelict crab pots at the Ocean Frontiers film screening

Recommendations to the Snohomish County Executive & Council

The Snohomish County Marine Resources Advisory Committee presents the following recommendations for consideration by the Snohomish County Council and Executive. These include actions that Council and/or the Executive could take, in addition to general support of the current MRC work program. The MRC welcomes further discussion of these recommendations.

Primary Recommendations

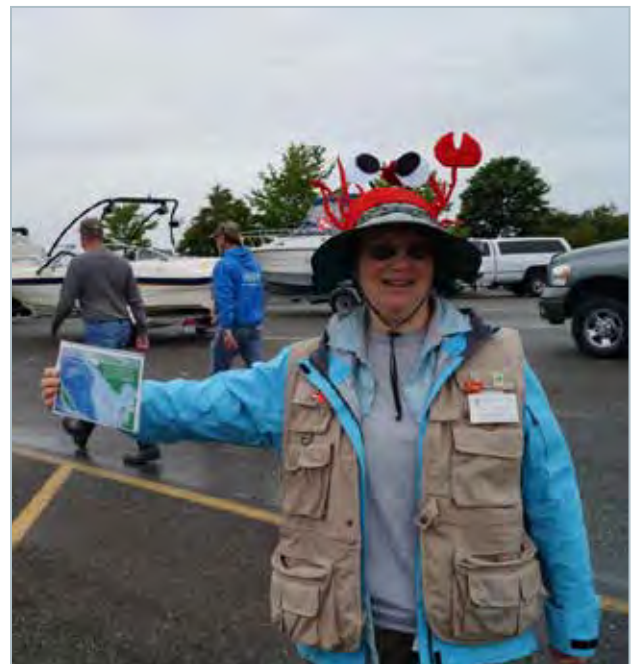
1. Renew the Snohomish MRC authorization in County Code to remove the sunset clause.
2. Maintain dedicated, stable funding sources and staff, which is essential for the Marine Resources Advisory Committee. With more than 8,857 volunteer hours donated to this program by Snohomish County citizens in 2012, the projects supported by the MRC are prime examples of the public/private partnerships we need to encourage for effective, sustainable stewardship of our marine resources.
3. Support the efforts of the Northwest Straits Marine Conservation Initiative and encourage the continuation of federal funding for this nationally recognized, locally driven program.
4. Approve a resolution to officially designate Port Susan as a Marine Stewardship Area (MSA). Encourage implementation of the strategies developed in the Conservation Action Plan.
5. Prioritize marine resource stewardship in departmental work plans, budget development, and local and regional initiatives, such as transportation and economic development.
6. Ensure marine shoreline development projects in Snohomish County are coordinated with respect to mitigation of comprehensive and cumulative effects on our shoreline and marine resources.
7. Support partner and agency efforts to protect and restore marine shoreline habitat.
8. Support the Snohomish and Stillaguamish Watersheds Local Integrating Organization (LIO). The LIO and its committees, to which the MRC belongs, works on behalf of local

organizations who aim to protect and restore the Puget Sound.

Additional Recommendations

Public Involvement and Education

1. Continue to encourage citizen involvement in marine resource monitoring and protection opportunities. The leadership of our County Executive and County Council in promoting this type of stewardship is critical to our success with public education about our marine environment.
2. Promote and expand partnerships with agencies, tribes, municipalities, universities, community colleges, non-profit organizations and citizen groups.



Beach Watcher, Judi Schwarz, distributing crabber education packets the opening day of crab season

Additional Recommendations (continued)

Dungeness Crab Stewardship/Derelict Gear Removal

1. Encourage and facilitate partnerships with agencies, tribes, municipalities, universities, community colleges, non-profit organizations and citizen groups to protect and restore Dungeness crab habitat.
2. Recommend and/or support sustainable and appropriate harvest regulations for Dungeness crab.
3. Support statewide development of a Priority Habitat & Species designation for Dungeness crab habitat.
4. Support the efforts of the Northwest Straits Initiative to complete the removal of derelict fishing gear in local waters.



Dungeness crab being removed from a derelict crab pot in Port Gardner on December 28, 2012

Nearshore Habitat Protection and Restoration

1. Support the recommended actions in the Nearshore Beach Restoration Project for the marine nearshore between the Cities of Mukilteo and Everett. Continue partnership with the City of Everett, the Port of Everett, and other landowners to seek funding for project implementation.
2. Continue to support the MRC's role in the Port Susan Marine Stewardship Area (MSA) Working Group that is merging the concerns of more than 100 local stakeholders of

economic and environmental interests with the needs of county, state and tribal governments to establish a community-supported MSA resulting in effective policy implementation with on-the-ground activities.

3. Support partnerships targeted to protect and restore marine shoreline habitat, and encourage private ownership participation in these activities.
4. Support, encourage, and fund nearshore habitat restoration capital projects, especially softshore protection demonstration projects.
5. Acknowledge and begin to address the impact of climate change and anticipated sea level rise on marine resources.
6. Support and fund the efforts of the Parks Department and the MRC to restore the nearshore habitat at Kayak Point Regional Park.
7. Support and fund the full restoration of the Snohomish County Smith Island Tidal Marsh Restoration Project.

Marine Water Quality

1. Support the recommendations put forth by the UW Environmental Management/MRC evaluation of Oil Spill Risk and Preparedness in Snohomish County. Keep dialogue moving with all identified parties and encourage participation.
2. Support and endorse the development of Washington's administrative rules that will implement new legislation for on-water fuel spill prevention.

Regional Puget Sound Conservation Efforts

1. Continue to participate in the Puget Sound Partnership's Ecosystem Coordination Board and serve a leadership role in the Whidbey Island Action Area to improve Puget Sound's health and enhance Snohomish County citizens' quality of life.

Acknowledgements

The accomplishments and current activities of the Snohomish County MRC depend on contributions from volunteers, Snohomish County staff members, and individuals from other organizations. Many of our MRC partners are listed below. Their interest and participation in MRC activities is greatly appreciated. We apologize for any omissions.

Snohomish County MRC Members

Thomas Hoban, Chair, Coast Commercial Properties, Real Estate Broker, Economic Interest
Simon Geerlofs, Co-Vice Chair, Pacific Northwest National Laboratory, Marine Science and Policy Analyst, Conservation/Environmental Interest
Keeley O'Connell, EarthCorps. Senior Restoration Ecologist, Conservation/Environmental Interest
Brent Hackney, Brent Hackney Designs, Inc., Owner, Economic Interest
Lincoln Loehr, Stoel Rives LLP, Environmental Compliance Analyst, Conservation/Environmental Interest
Cathy Stanley, Tulalip Tribes, Shellfish Biologist, Local Tribal Government
Franchesca Perez, Stillaguamish Tribe, Outreach Specialist/ Conservation Planner, Local Tribal Government

Snohomish County Marine Resources Program Staff

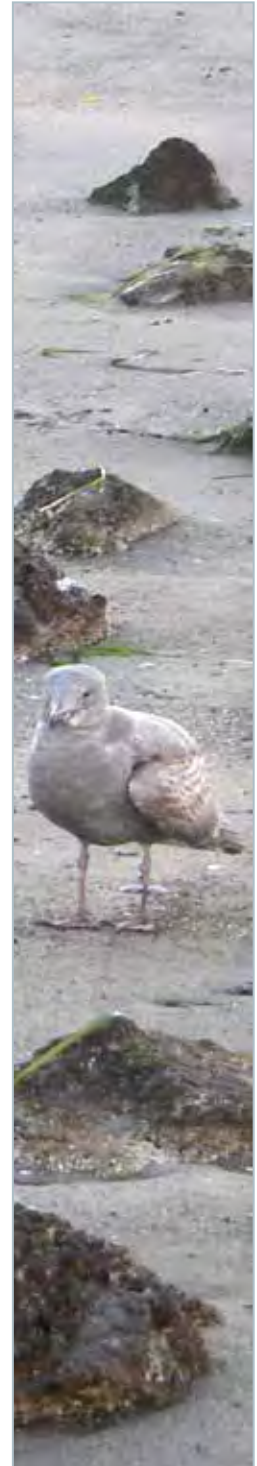
Kathleen Herrmann, Lead Staff
Emily Whitney, Program Assistant

Port Susan Marine Stewardship Area

Abby Hook, Tulalip Tribes
Audrey Kuklok, Washington Sea Grant
Brett de Vries, Snohomish Conservation District
Kathleen Herrmann, Snohomish MRC Staff
Caroline Gibson, NWSC
Chris Jerome, Island MRC
Chrys Bertolotto, WSU Snohomish County Extension
Franchesca Perez, Stillaguamish Tribe
Gina Gray, Stillaguamish Tribe
Jerry Masters, NWSC
Jess Toro, Native Habitat Restoration

Partial 2012 Term MRC Members

Paul Schlenger, Co-Vice Chair, Confluence Environmental Company, Fish Biologist and Marine Ecologist, Environmental Interest
Susan Tarpley, City of Edmonds Discovery Programs, Ranger-Naturalist, Environmental Interest
Bob Hillmann, City of Everett, Parks Department, Project Coordinator, Local Government
Jared Bond, former Chair, City of Lynnwood, Environmental and Surface Water Manager
Jerry Masters, Valley Supply Company, General Manager



Port Susan Measures Workshop

Chrys Bertolotto, WSU Snohomish County Extension
Dan Penttila, Salish Sea Biological
Lori Clark, Island County
Michael Purser, Snohomish County Public Works
Monte Marti, Snohomish Conservation District
Sean Edwards, Snohomish County
Don Velasquez, WDFW
Karen Stewart, Island County Planning
Lenny Corin, Whidbey-Camano Land Trust, Island County MRC
Todd Zackey, Tulalip Tribes
Linda Neunzig, Snohomish County Agricultural Coordinator
Lisa Kauffmann, WDNR
Stephen Frenzl, Snohomish County SWM
Bill Blake, Stormwater Director City or Arlington
Ruth Milner, WDFW

Dungeness Crab Stewardship

Brent Hackney, Snohomish MRC
Cathy Stanley, Tulalip Tribes
Don Rothaus, Washington Department of Fish and Wildlife
Don Velasquez, Washington Department of Fish and Wildlife

Public Involvement and Education

Francesca Perez, Stillaguamish Tribe
Keeley O'Connell, EarthCorps
Scott Chase, Island County Shore Stewards
Tom Hoban, MRC Member
Simon Geerlofs, MRC Member
Bob Hillmann, MRC Member, City of Everett
Sally Lider, City of Edmonds

Nearshore Habitat Protection and Restoration

Coastal Geologic Services
Curtis Tanner, U.S. Fish and Wildlife Service
Dan Penttila, Salish Sea Biological
Dave Lucas, Snohomish County SWM
Debbie Terwilliger, Snohomish County SWM
Emily Whitney, Snohomish MRC Program Assistant

Francesca Perez, Stillaguamish Tribe, Snohomish County MRC
Kathleen Herrmann, Snohomish County MRC
Abby Hook, Hook-Knauer Inc.
Audrey Kuklok, WA Sea Grant/ UW SMEA
Jess Toro, Native Habitat Restoration
Kat Morgan, TNC
Kate Litle, WA Sea Grant
Scott Chase, Island County Shore Stewards
Brett de Vries, Snohomish Conservation District
Caroline Gibson, Northwest Straits Commission
Gina Gray, Stillaguamish Tribe
Tom Hoban, Snohomish County MRC

Jeff June, Natural Resources Consultants, Inc.
Mike McHugh, Tulalip Tribes
WSU Snohomish County Extension
Beach Watchers

Suzi Wong-Swint, Snohomish County
Stef Frenzl, Snohomish County
Chrys Bertolotto and the WSU Snohomish County Extension
Beach Watchers

Frank Leonetti, Snohomish County SWM
Hugh Shipman, Washington Department of Ecology
Jon Houghton, Pentec Environmental
Kathleen Herrmann, Snohomish MRC Staff
Kathy Ketteridge, Anchor QEA



Kollin Higgins, King County
Lincoln Loehr, Snohomish MRC
Lisa Kaufman, Washington Department of
Natural Resources
Mark Harrison, Port of Everett
Mary Cunningham, City of Everett,
Snohomish MRC

Paul Schlenger, Anchor QEA
Bob Hillmann, City of Everett
Sean Callahan, NOAA
Todd Zackey, Tulalip Tribes
WSU Snohomish County Extension
Beach Watchers

Marine Water Quality

Alan Mearns, NOAA
Cathy Stanley, Tulalip Tribes
Dennis Apeti, NOAA
Emily Whitney, Snohomish MRC Program
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Michelle LaForge, Snohomish MRC
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James West, Washington Department of
Fish and Wildlife
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Department of Fish and Wildlife
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Kate Litle, Washington Sea Grant
Lincoln Loehr, Snohomish MRC
Mary Cunningham, Snohomish
MRC
Mike McHugh, Tulalip Tribes
Rutgers University Haskins
Shellfish Research Laboratory
Snohomish County Sheriff's
Department
TDI-Brooks International
WSU Snohomish County Extension
Beach Watchers

Forage Fish Spawning Surveys

Frank Leonetti, Snohomish County SWM
Kathleen Herrmann, Snohomish MRC Staff
Franchesca Perez, Stillaguamish Tribe, MRC
Member
Craig Wollam, WSU Beach Watcher

Michelle LaForge, Snohomish
MRC Program Assistant
Emily Whitney, Snohomish MRC
Program Assistant
WSU Snohomish County Extension
Beach Watchers

Snohomish County Staff Members & Elected Officials

Public Works Department, Surface Water Management Division

Debbie Terwilleger, Director
Gregg Farris, SWM-SPA Supervisor
Kathleen Herrmann, MRC Lead Staff
Emily Whitney, WCC IP former
Michelle LaForge, WCC IP current
Sean Edwards, Senior Planner
Laura Audette, GIS Analyst

Scott Moore, Native Plant Steward
Suzi Wong Swint, Senior Planner
Tim Walls, Senior Planner
David Lucas, Engineer
Sheila Hagen, GIS Analyst
Stef Frenzl, Communications Splst.

Department of Parks and Recreation

Tom Teigen, Parks Director
Sharon Swan, Senior Planner

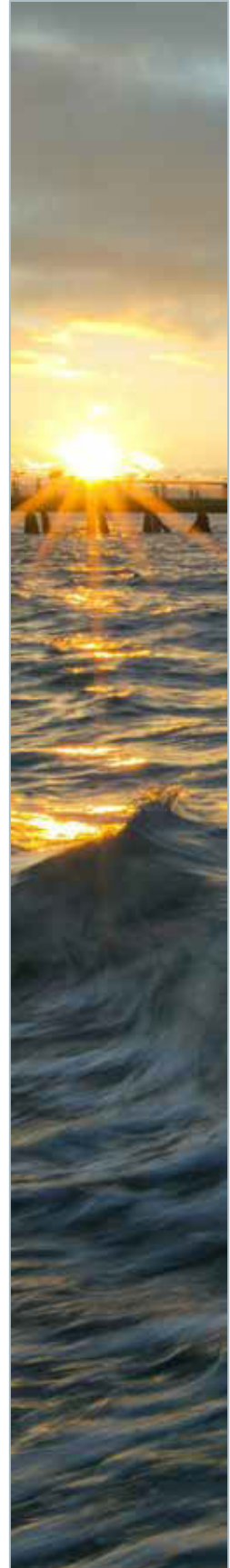
Chris Mueller, Senior Planner

Snohomish County Executive

Aaron G. Reardon

Snohomish County Council 2011

John Koster - District 1



Brian Sullivan, Vice Chair - District 2
Stephanie Wright - District 3
Dave Gossett - District 4
Dave Somers, Chair - District 5

WSU Snohomish County Extension Beach Watchers

April Bosley	Janice Martin	Paul Granquist
Barbara Keithly	Jerry Anderson	Phillip Taylor
Bea Wilson	Jim O'Neill	PJ Juttner
Ben Lubbers	JJ Bella	Rose Soch
Bernie Busch	Joan Douglas	Sandra Plush
Beverly Black	Joy Lynch	Sandy Evans
Bill James	Judi Schwarz	Sheila Zahnow
Bob McCort	Judy Kilian	Shian Rashid
Bobbie Constantine	Judy Ness	Stefan Dittmar
Brenda Adair Taylor	Karen Siebrass	Steve Johnson
Brian Cleveland	Laurel Nyquist	Susan Tarpley
Carol Forsberg	Leilani Howes	Ted Wilkins III
Carol Williams	Leslie Rafael	Tessa Bevins
Carol Winter	Liz Heisler	Thomas Murphy
Chris Betchley	Lucinda Diann	Tom Hoban
Christine Longdon	Lynn Lichtenberg	Trish Mayfield
Cindy Ridgeway	Lynn McCort	Ursula Gallagher
Corri Heiss	Margy O'Grady	Wendy Oresik
Craig Wollam	Mary Hamann	
Dave Compton	Mary Vanderway	<i>Island and Skagit</i>
Dave Ridgeway	Maureen Hoban	<i>County Beach</i>
Denise Mannery	Mauricio Calderon	<i>Watchers</i>
Diane Patterson	Melonique Riall	Christine Langdon
Donna Maupin	Nancy Engen	Pat Fritch
Ernie DeWaters, Jr.	Nancy McDonald	Tessa Bevins
Fred Benedetti	Pat Smith	Tom Fritch
Harlen Forsberg	Patrick Deagen	
Hugh Matheson	Paul Olafson	



**ATTACHMENT A:
SNOHOMISH COUNTY MRC
SUMMARY OF TRAINING EVENTS**

MRC members and staff participated in the following training sessions in 2012:

- **Sound Waters**
February 4, 2012
Attendees: Emily Whitney
- **Our Puget Sound In Depth Lecture**
March 7, 2012
Attendees: Thomas Hoban
- **Whale Trail Lecture**
April 4, 2012
Attendees: Thomas Hoban
- **Brightwater Lecture**
May 2, 2012
Attendees: Thomas Hoban
- **Salmon and Railroads Workshop**
August 20, 2012
Attendees: Kathleen Herrmann
- **Forage Fish Spawning Survey Training with Dan Penttila**
September 21, 2012
Attendees: Franchesca Perez, Kathleen Herrmann, and Emily Whitney
- **Sound Living: One Day Communiversy**
October 20, 2012
Attendees: Lincoln Loehr, Susan Tarpley and Thomas Hoban
- **Oil Spill Response Training/Presentation**
November 1, 2012
Attendees: Lincoln Loehr
- **NWSC Annual MRC Conference**
November 2-3, 2012
Attendees: Cathy Stanley, Franchesca Perez, Kathleen Herrmann, Keeley O'Connell, Lincoln Loehr, Michelle LaForge, Paul Schlenger, Bob Hillmann, Simon Geerlofs, Susan Tarpley and Thomas Hoban.
- **Estuary Restoration Workshop**
November 29, 2012
Attendees: Kathleen Herrmann and Michelle LaForge