



SNOHOMISH COUNTY MARINE RESOURCES ADVISORY COMMITTEE



2013 ANNUAL REPORT & RECOMMENDATIONS

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Snohomish County Marine Resources Advisory Committee (MRC)

Background / Introduction

This report outlines the Snohomish County Marine Resources Advisory Committee's (MRC) accomplishments between January 1, 2013 and December 31, 2013. It includes a description of current projects and provides recommendations for the Snohomish County Executive and Council.

The 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.

MRC members represent a diverse group of environmental, recreational, conservation, economic, local and tribal government interests. The MRC is part of the Northwest Straits Marine Conservation Initiative (NWSI), guided by the Northwest Straits Commission (NWSC) and the Northwest Straits Foundation (NWSF). Together these entities comprise a non-partisan regional effort to protect and restore marine resources in northern Puget Sound and the Strait of Juan de Fuca. Snohomish County Public Works Surface Water Management Division (SWM) 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 (2011-2016) 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 its long-term success. An integral part of the MRC's work is public education and involvement, which includes 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 restoration projects, which leverage funds and expand partnerships throughout the county. The MRC members are proud of their accomplishments over the past year and look forward to facilitating continued support and improvements for the marine resources in Puget Sound.



Snohomish MRC Members and Staff at a tour of Edmonds Marsh

Successes and Highlights of 2013

Volunteer Hours

A combined total of 9,786 volunteer and in-kind support hours were leveraged through the work of the Snohomish County Marine Resources Committee (1,373 hrs), and the WSU Snohomish County Extension Beach Watchers (8,413 hrs). These volunteer hours indicate a high level of community support.

Nearshore Beach Restoration

The Snohomish County Beach Restoration Project will restore the Howarth Park Beach and place additional beach material at several locations along the 4.5 mile drift cell of the railroad impounded shoreline between Mukilteo and Everett. Beach nourishment through the placement of clean, appropriately sized sediment material at several locations throughout this drift cell will improve nearshore ecosystem productivity, particularly for juvenile salmon (SBSRS, 2005) and other forage fish and invertebrates that salmon prey upon.

The 60% designs were developed in 2013 and final designs will be complete in early 2014. Construction has been fully funded by the Estuary and Salmon Restoration Program (ESRP), the Salmon Recovery Funding Board (SRFB), and the US Fish and Wildlife Service, with local support from the City of Everett, the Port of Everett, and Snohomish County.



One of the three nearshore sediment nourishment sites



Ocean Acidification Forum featured speakers

Ocean Acidification Forum – In partnership with the NWSC, the Sustainable Fisheries Partnership and others, the MRC hosted an ocean acidification seminar at Everett Station on January 24, 2013. This free seminar featured three members of the Governor’s Blue Ribbon Panel appointed in February 2012 by former Governor Christine Gregoire: Shallin Busch (NOAA), Terrie Klinger (University of Washington), and Brad Warren (Sustainable Fisheries Partnership).

The event was attended by approximately 120 local citizens. Through this forum, citizens heard from regional leaders on this important emerging issue.

Future forum events are being planned by the MRC and NWSC to continue to serve as opportunities for citizens to learn more about the latest research and policies related to ocean acidification.

Successes and Highlights of 2013

Snohomish County Rock Star Award

Snohomish County MRC lead staff, Kathleen Herrmann received the Snohomish County Rock Star Employee of the Month award in November 2013. Kathleen was presented with the award by Snohomish County Executive, John Lovick, at the November 6th County Council meeting. The recognition program is designed to spotlight stellar performance and public service by a member of the Snohomish County workforce.



Kathleen Herrmann receiving the Snohomish County Rock Star Award

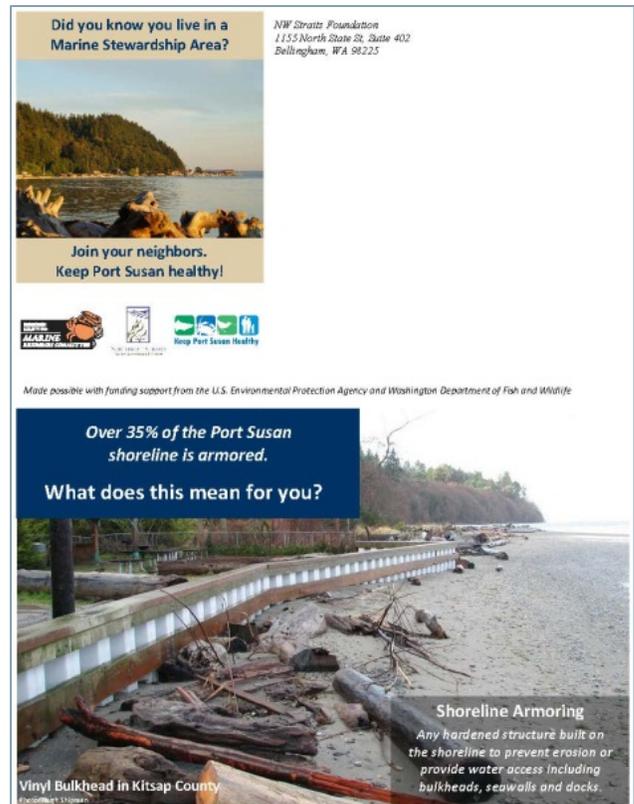
NOAA Monster Jam Talk - In May 2013, MRC lead staff, Kathleen Herrmann, gave a presentation at the NOAA Northwest Fisheries Science Center in Seattle entitled, "*Marine Conservation at the Local Level: the Role of Volunteers in Creating Vibrant Coastal Communities*". The presentation highlighted how the Snohomish MRC works to leverage partnerships to increase the effectiveness of local restoration and stewardship projects. The presentation was well received and has been made available for viewing on the internet.



Kathleen Herrmann presenting the NOAA Monster Jam Talk

Port Susan Shoreline Armoring Prevention –

In collaboration with the Northwest Straits Foundation, the MRC hosted a Coastal Landowner Workshop for Snohomish and Island County residents focused on protecting and maintaining shoreline property in Port Susan. Following the workshop, the MRC created a postcard that was sent to Port Susan coastal landowners providing information on hard armoring alternatives. Fifteen site visits were conducted for Snohomish County marine shoreline property owners.



Front side of postcard sent to over 1,500 Port Susan shoreline landowners

Public Education and Outreach

2013 Accomplishments

Greenwood Creek –In 2013, Snohomish County and Tulalip Tribes partnered to restore Greenwood Creek which is used by juvenile Chinook salmon. The MRC sponsored the design and construction of an interpretive sign for the Greenwood Creek Restoration Project to provide information on the project and Chinook salmon.

Snohomish River Tour – As part of Puget Soundkeeper Alliance’s 12 Rivers Campaign, PSA staff joined the Snohomish County MRC members for a boat tour of the Snohomish River on June 12, 2013. The tour covered the Snohomish estuary and important habitat and water quality issues facing the area.

Starlight Beach Walk – MRC Members, staff, and WSU Snohomish County Extension Beach Watchers hosted a Starlight Beach Walk in Edmonds on February 7th, 2013. During the evening low tide, people of all ages combed the beach to find starfish, anemones, limpets, crabs, squid, sea slugs and other intertidal organisms.



Greenwood Creek Interpretive Sign



Limpet discovered during the Edmonds Starlight Beach Walk

2013 Workplan Highlights

Education and Outreach Subcommittee

The MRC booth was redesigned and displayed at the following events:

- Sound Waters
- Captain Cabela’s Weekend
- NOAA NWFSC Watershed Open House
- Edmonds Community College Earth Day
- Port Susan Open Houses; Camano Island and Tulalip
- Stillaguamish Festival of the River
- Sound Living
- NWSC Conference

Washington State University Snohomish County Extension Beach Watchers

The MRC continued partnership and support for the WSU Snohomish County Extension Beach Watchers program

Fifteen Beach Watchers graduated from the 2013 training program and became involved in MRC projects and other local efforts. WSU Beach Watcher volunteers contributed 8,413 hours of service for the community.

NWSC Benchmarks Achieved:
Education and Outreach

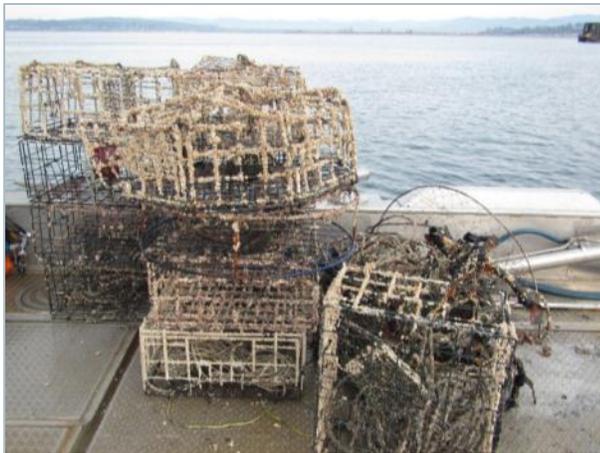
Dungeness Crab Pot Removal & Stewardship

2013 Accomplishments

Derelict Crab Pot Removal – Snohomish County hired Natural Resource Consultants, Inc. (NRC) to run a sidescan sonar survey and remove derelict crab pots in the Port Gardner Study Area. Of the 94 crab pots identified in the survey, 88 of these pots were removed or disabled between December 17 and 27, 2013. Four additional pots were found by divers near the target pots and were also removed. Over 95% of these pots accumulated since derelict gear was last removed from the project area in winter 2012. 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 2013



Derelict gear removed from Port Gardner in 2013

2013 Workplan Highlights

Causes of Pot Loss Study

While removing crab pots from the Port Gardner Study Area, NRC also recorded reasons for pot loss in the study area. The reasons identified for pot loss included line length to water depth mismatch, vessel strike, barge strike, tampering/sabotage, gear malfunction/user error, entanglement with other gear, entanglement with non-gear, and unknown. This information will help inform future crabber education projects.

Dungeness Crabber Education

During the summer crabbing season, the MRC provided WSU Snohomish County Extension Beach Watchers with outreach materials to distribute 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.

Did you know?

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

Nearshore Habitat Protection & Restoration

2013 Accomplishments

Nearshore Beach Restoration Project –

This project will advance restoration in the nearshore area of the Snohomish River mouth, along the railroad-impounded shoreline between Mukilteo and Everett by removing armoring at Howarth Park and placing additional beach material at three locations. The project is nearing final project design. In 2013, the 30% and 60% designs were approved by the project team. A three way Interlocal agreement between Snohomish County, City of Everett, and the Port of Everett has been routed for signature. Public information meetings will be held in local neighborhoods in early 2014.

Throughout 2013, the project plan and progress was presented to a variety of interested audiences including the NWSC conference in Bellingham and a tour of the project site for Representative Rick Larsen and staff.

The project team has obtained grant funding for construction which is planned for the winter of 2014-2015. Grants have been awarded by the Salmon Recovery Funding Board, US Fish and Wildlife Service and the US EPA.

Project partners include the Port of Everett, Snohomish County Surface Water Management, the USACE, the City of Everett and the Tulalip Tribes.



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

2013 Workplan Highlights

Forage Fish Spawning Surveys

The MRC continued to conduct pre-restoration monitoring of potential forage fish spawning within the Nearshore Restoration Project reach. MRC members, SWM staff and Snohomish County Beach Watchers collected samples 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 Nearshore Restoration Project.

Forage Fish Spawning Survey Sediment Analysis

Sediments collected from the Forage Fish Spawning Survey sites between November 2012 and February 2013 were analyzed in December 2013. Sediment composition results will add to the monitoring activities for the proposed Nearshore Beach Restoration Project.

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



Congressman Rick Larsen and Kathleen Herrmann on a tour of Snohomish County restoration project sites

NWSC Benchmarks Achieved:
Science, Marine Habitat

Port Susan Marine Stewardship Area



Living with the Coast Workshop attendees during the beach walk led by Jim Johannessen

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. The Port Susan Marine Stewardship Area Conservation Action Plan (CAP) Phase II report was completed on Dec. 18, 2012.

The MSA Advisory team continued to meet quarterly in 2013 to move forward the action steps listed in the CAP report, which span a broad reach of detail for different strategic actions. The CAP report will serve as a voluntary working document that will be updated over time as opportunities, resources, partners, and funding change.

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.

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

Shoreline Armoring Prevention

The MRC partnered with the Northwest Straits Foundation (NWSF) to conduct shoreline armoring prevention outreach. In October 2013, an informational postcard was sent to over 1,500 landowners in Port Susan encouraging the use of alternatives to hard armoring or the use of no armoring on the shoreline.

In June 2013, the MRC and NWSF hosted a "Living with the Coast" workshop for Snohomish and Island County landowners to learn how to protect and maintain their shoreline property in the Port Susan Marine Stewardship Area. Workshop topics included slope stability and habitat, along with how and why beaches and bluffs change over time. Participants were given the opportunity to sign up for free site visits by a private, shoreline management professional to learn how to protect their property. The workshop concluded with an educational beach walk at Kayak Point Park.

Since the workshop, over 15 site visits have been conducted in Port Susan.

Marine Water Quality

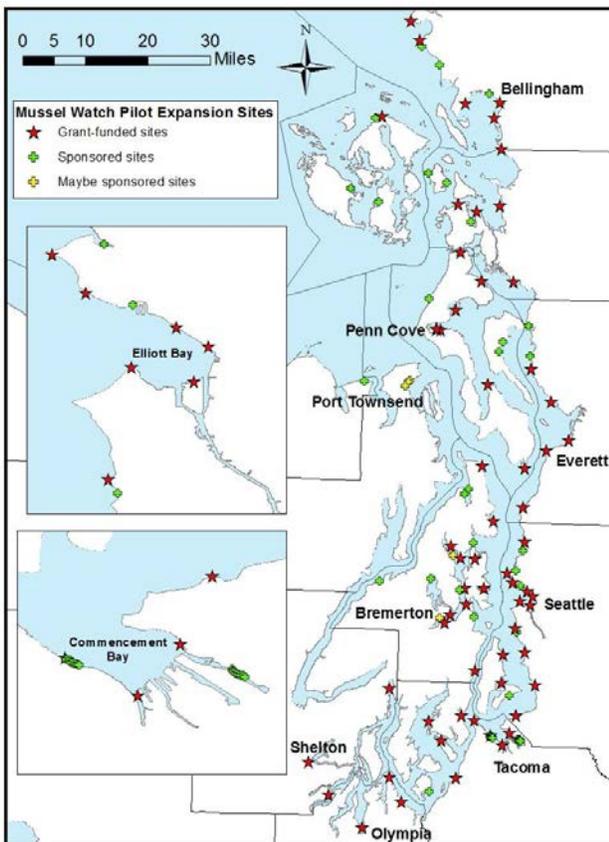
2013 Accomplishments

WDFW Caged Mussel Study – The MRC partnered with the Washington Department of Fish and Wildlife (WDFW) to deploy four cages of live mussels in Snohomish County in November 2012.

In January 2013, MRC members and staff, along with citizen science volunteers, retrieved the mussel cages and collected native mussel samples. The caged and native mussels were delivered to WDFW staff to be sent to a lab for analysis. The goal of the study is to determine where pollutants enter the Puget Sound and the levels at which animals are exposed.



MRC member, Susan Tarpley, retrieving a cage of live mussels



Map of WDFW Caged Mussel Watch Sites in Puget Sound

2013 Workplan Highlights

Snohomish County Mussel Watch

In tandem with the WDFW Caged Mussel Study, the Snohomish County MRC collected native mussels at some of the sites. Three of the four mussel cage locations, Edmonds Ferry, Everett Harbor and Kayak Point Park, are aligned with the NOAA mussel watch sites which have been sampled annually. By sampling native mussels at these locations, the data can be compared to the past NOAA Mussel Watch data as well as use this data as a comparison for caged versus native mussels.

The Snohomish MRC has participated in the NOAA Mussel Watch program since 2007, providing for long term data on Snohomish County water quality. The regional mussel watch data are used as one of the only consistently collected long-term database to inform contamination trend analysis.

NWSC Benchmarks Achieved:

Science, Education and Outreach, Marine Water Quality

Administrative Tasks

MRC Staffing

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

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 25, February 22, March 21-22, April 19, May 31, June 28, July 26, August 23, September 27, October 25, November 22-23, and December 13, 2013. Nine Snohomish County MRC members and two MRC staff attended the NWSC conference in Bellingham, WA on November 22-23, 2013.



Jim Johannessen presents to NWSC Conference attendees at recently restored Boulevard Park in Bellingham

MRC Subcommittees

The MRC maintains an Executive subcommittee and several ad-hoc committees including Mussel Watch, Port Susan, Crabber Education, Derelict Gear, and Education and Outreach.

Strategic Plan

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

Grant Administration

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

MRC staff completed the agreement with the Northwest Straits Foundation to implement the Port Susan Targeted Awareness Grant to prevent shoreline armoring on December 31, 2013.

MRC Website

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 2013, the site received 2,717 visits.



MRC Website: www.snocomrc.org

MRC Members

In January 2013, Tom Hoban was re-appointed as the MRC Chair. Tom was also re-elected as the MRC representative to the NWSC, with Lincoln Loehr and Kathleen Herrmann as alternates.

Paul Schlenger was re-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.

MRC Member Training

See Attachment A for details.

Opportunities for 2014

Continuation of Existing Projects:

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 240 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 November 2013, the NWSI has removed 4,574 derelict fishing nets and 2,889 crab pots from the Puget Sound, restoring 658 acres of critical marine habitat. Over 327,000 animals have been removed from derelict gear since the program began in 2002.

The NWSI estimates 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.

Marine Water Quality

Funding for the NOAA Mussel Watch program was not available for the 2013-2014 sampling season. Due to this loss of funding, the Snohomish MRC did not participate in mussel watch sampling in 2013. This will result in a one year lapse in Mussel Watch data.

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

Nearshore Restoration Project

Construction is planned for the Snohomish County Nearshore Restoration Project in the winter of 2014. The MRC program has supported critical pieces of this project including providing grant match for the project through donations to the MRC from the Marjorie Mosher Schmidt Foundation. The MRC program has also provided funding for the cultural resources assessment that was required by the State of Washington. These examples show how the MRC is able to leverage funds to support large scale capital projects.

SWM Staff are working to develop a long term management plan to conduct future beach nourishment in partnership with the Port of Everett and the US Army Corps of Engineers.

New Project Ideas:

- Meadowdale Beach Restoration (in partnership with Snohomish County Parks)
- Softshore Armoring Education Program
- Shrimper Education Program



Samish Island soft shore armoring project
Credit: Jim Johannessen, CGS

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. Remove the sunset clause from the Snohomish MRC authorization in County Code.
2. Maintain dedicated, stable funding sources and staff for the Marine Resources Advisory Committee. With more than 9,786 volunteer hours donated to this program by Snohomish County citizens in 2013, the projects supported by the MRC are prime examples of the public/private partnerships that support effective, sustainable stewardship of our marine resources.
3. 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.
4. Support the efforts of the Northwest Straits Marine Conservation Initiative and encourage the continuation of federal funding for this nationally recognized, locally driven program.
5. Support, encourage, and fund nearshore habitat restoration capital projects.
6. Prioritize marine resource stewardship in departmental work plans, budget development, and local and regional initiatives, such as transportation and economic development.
7. 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.
8. Support partner and agency efforts to protect and restore marine shoreline habitat.
9. 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 the County Executive and County Council in promoting this type of stewardship is critical to the MRC's success in educating citizens about the marine environment.
2. Promote and expand partnerships with agencies, tribes, municipalities, universities, community colleges, non-profit organizations and citizen groups.



Snohomish County Beach Watchers assist with forage fish spawning surveys at Howarth Park

Additional Recommendations (continued)

Dungeness Crab Stewardship/Derelict Gear Removal

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



Dungeness crab being removed from a derelict crab pot in Port Gardner December 2013

4. Support statewide development of a "Priority Habitat and Species" designation for Dungeness crab habitat.

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 implement project.
2. Continue to support the MRC's role in the Port Susan Marine Stewardship Area (MSA) Working Group. Continue to work with local stakeholders to establish a community-

supported MSA that will result 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 and Meadowdale 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 of the UW Environmental Management/MRC evaluation of Oil Spill Risk and Preparedness in Snohomish County. Continue to encourage participation in this effort.
2. Support and endorse the development of Washington's administrative rules that will implement new legislation for on-water fuel spill prevention.
3. Monitor and support legislation that promotes a study of the risks associated with the increased transport of oil by rail along the Snohomish County Shoreline.

Regional Puget Sound Conservation Efforts

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

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

Paul Schlenger, Co-Vice Chair, Confluence Environmental Company, Fish Biologist and Marine Ecologist, 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, Marine Stewardship and Shellfish Program Manager, Local Tribal Government

Susan Tarpley, City of Edmonds Discovery Programs, Ranger-Naturalist, Environmental Interest

Bob Hillmann, City of Everett, Parks Department, Project Coordinator, Local Government

Snohomish County Marine Resources Program Staff

Kathleen Herrmann, Lead Staff

Michelle LaForge, Program Assistant

Alyson Rae, Program Assistant

Port Susan Marine Stewardship Area

Abby Hook, formerly with Tulalip Tribes, Hook-Knauer Inc.

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

Karen Stewart, Island County

Kat Morgan, Nature Conservancy

Kate Litle, Washington Sea Grant

Kit Rawson, formerly with Tulalip Tribes

Monte Marti, Snohomish Conservation District

Sasha Horst, NWSC

Scott Chase, Island County Shore Stewards

Simon Geerlofs, Snohomish MRC

Thomas Hoban, Snohomish MRC

Tracie Johannessen, formerly with NWSF



Dungeness Crab Stewardship

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Cathy Stanley, Tulalip Tribes
Don Rothaus, Washington Department of
Fish and Wildlife
Don Velasquez, Washington Department of
Fish and Wildlife

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

Public Involvement and Education

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

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

Nearshore Habitat Protection and Restoration

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Dan Penttila, Salish Sea Biological
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Jon Houghton, Pentec Environmental
Kathleen Herrmann, Snohomish MRC Staff

Kathy Ketteridge, Anchor QEA
Kollin Higgins, King County
Lincoln Loehr, Snohomish MRC
Lisa Kaufman, formerly with
Washington Department of
Natural Resources, NWSF
Mark Harrison, Port of Everett
Mary Cunningham, City of Everett
Paul Schlenger, Confluence
Environmental Company
Bob Hillmann, City of Everett
Sean Callahan, NOAA
Todd Zackey, Tulalip Tribes
WSU Snohomish County Extension
Beach Watchers

Marine Water Quality

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James West, Washington Department of
Fish and Wildlife
Jennifer Lanksbury, Washington
Department of Fish and Wildlife
Kathleen Herrmann, Snohomish MRC Staff

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	Emily Whitney, Snohomish MRC Program Assistant
Kathleen Herrmann, Snohomish MRC Staff	Alyson Rae, Snohomish MRC Program Assistant
Franchesca Perez, Stillaguamish Tribe, Snohomish MRC	Dan Penttila, Salish Sea Biological WSU Snohomish County Extension Beach Watchers
Craig Wollam, WSU Beach Watcher	
Michelle LaForge, Snohomish MRC Program Assistant	

Snohomish County Staff Members & Elected Officials

Public Works Department, Surface Water Management Division

Debbie Terwilleger, Director	Suzi Wong Swint, Senior Planner
Gregg Farris, SWM-SPA Supervisor	Tim Walls, Senior Planner
Kathleen Herrmann, MRC Lead Staff	Frank Leonetti, Senior Habitat Specialist
Alyson Rae, WCC IP current	David Lucas, Engineer
Michelle LaForge, WCC IP former	Sheila Hagen, GIS Analyst
Sean Edwards, Senior Planner	Stef Frenzl, Communications Specialist
Allison Sanders, GIS Analyst	
Scott Moore, Native Plant Steward	

Department of Parks and Recreation

Tom Teigen, Parks Director	Chris Mueller, Senior Planner
Sharon Swan, Senior Planner	

Snohomish County Executive

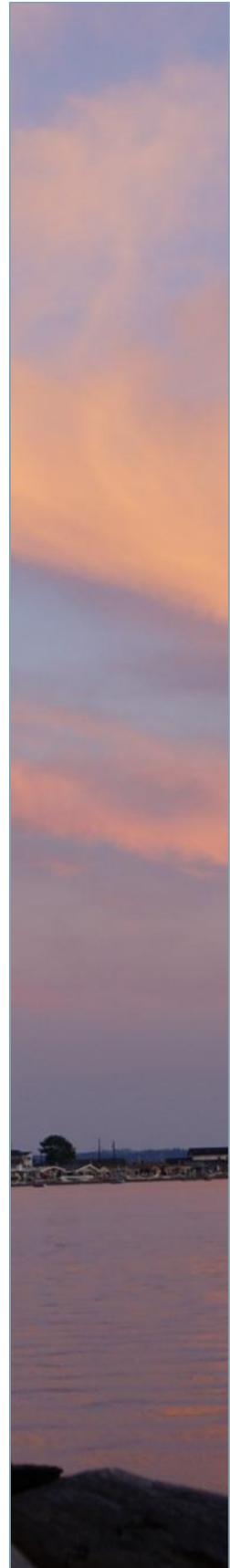
John Lovick

Snohomish County Council 2013

John Koster - District 1
Brian Sullivan, Vice Chair - District 2
Stephanie Wright, Chair - District 3
Dave Gossett - District 4
Dave Somers - District 5

WSU Snohomish County Extension Beach Watchers

Annette Rosebrook	Carol Winter	Donna Kinsey
April Bosley	Chris Betchley	Donna Maupin
Barbara Keithly	Christine Longdon	Ernie DeWaters, Jr.
Bea Wilson	Chuck LoPresti	Fred Benedetti
Ben Lubbers	Cindy Ridgeway	Harlen Forsberg
Bernie Busch	Corri Heiss	Hugh Matheson
Beverly Black	Craig Wollam	Janice Martin
Bill James	Darla Gay Smith	Jerry Anderson
Bob McCort	Dave Compton	JJ Bella
Bobbie Constantine	Dave Ridgeway	Joan Douglas
Brenda Adair Taylor	Deanna Stiles	Jourdan Keith
Brian Cleveland	Denise Mannery	Joy Lynch
Bruce Bennett	Diane Patterson	Judi Schwarz
Carol Forsberg	Donna Bennett	Judy Atkins



Judy Kilian
Judy Ness
Karen Siebrass
Larry Whatley
Laurel Nyquist
Lee Kimmelman
Leilani Howes
Leslie Rafael
Linda Whatley
Lisa Parkinson
Liz Heisler
Lucinda Diann
Lynn Lichtenberg
Lynn McCort
Margy O'Grady
Mary Hamann

Mary Vanderway
Maureen Hoban
Mauricio Calderon
Melanie Wyffels
Melonique Riall
Nancy Engen
Nancy McDonald
Pat Smith
Patrick Deagen
Paul Olafson
Paul Granquist
Phillip Taylor
Rose Soch
Sandra Plush
Sandy Evans
Sheila Zahnow

Shelley Byington
Shian Rashid
Stefan Dittmar
Steve Johnson
Susan Stewart
Susan Tarpley
Ted Wilkins III
Tessa Bevins
Thomas Murphy
Tom Hoban
Trish Mayfield
Ursula Gallagher
Wendy Oresik

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

MRC members and staff participated in the following training sessions in 2013:

- **King County Beach Nourishment Workshop**
January 25, 2013
Attendees: Kathleen Herrmann
- **Sound Waters**
February 2, 2013
Attendees: Lincoln Loehr and Michelle LaForge
- **Marine Managers Workshop**
February 27-March 1, 2013
Attendees: Kathleen Herrmann
- **NOAA NWFSC Watershed Open House**
March 12, 2013
Attendees: Kathleen Herrmann and Michelle LaForge
- **Shoreline Monitoring Consortium**
June 13, 2013
Attendees: Kathleen Herrmann
- **Forage Fish Spawning Survey Training with Dan Penttila**
September 24, 2013
Attendees: Franchesca Perez, Kathleen Herrmann, and Alyson Rae
- **Salish Sea Shoreline Forum: How to Incentivize Alternative Green Shoreline Techniques**
September 30, 2013
Attendees: Kathleen Herrmann and Paul Schlenger
- **Sound Living: One Day Communiversality**
November 9, 2013
Attendees: Susan Tarpley, Bob Hillmann, Keeley O'Connell and Alyson Rae
- **NWSC Annual MRC Conference**
November 22-23, 2013
Attendees: Cathy Stanley, Franchesca Perez, Kathleen Herrmann, Keeley O'Connell, Lincoln Loehr, Alyson Rae, Paul Schlenger, Bob Hillmann, Simon Geerlofs, Susan Tarpley and Thomas Hoban