

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

January 17, 2018 6:30-8:30PM
3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor

<p>MRC Members Present Tom Doerge Mike Ehlebracht Laura Gurley Bob Hillmann Deborah Hopkins Susan Tarpley Sarah Brown Paul Clampitt Cathy Stanley</p> <p>Absent Franchesca Perez (excused) Traci Sanderson (excused) Craig Wollam (excused)</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff Elisa Dawson, Snohomish County MRC Planner</p> <p>Jerry Masters, Northwest Straits Foundation Tarrell Kullaway, Northwest Straits Foundation Kari Quass, Snohomish Conservation District</p>
<p>Summary of Decisions</p> <p>The MRC approved the November 15, 2017 MRC Meeting Summaries.</p>	
<p>Upcoming Events</p> <ul style="list-style-type: none"> ● The next County Boards and Commissions Training is Wednesday, Dec. 13th at Snohomish County Campus, Public Meeting Rooms 3000 Rockefeller Ave., Everett 98201 	

Welcome and Introductions

Vice Chair Sarah Brown opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Sarah introduced herself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Mike Ehlebracht made a motion to approve the November 15, 2017 MRC Meeting Summary. Debbie Hopkins seconded the motion. All were in favor and the motion passed.

Our Coast Community Film Series MRC 2017-2018 Grant Update

Kathleen passed out a master copy of the MRC Movie Event Logistics sheet. The Event Logistics Sheet includes sign-ups for different volunteer roles which will be needed at each event. Volunteers for greeting, AV technician help, the MRC table, and popcorn help will be needed. Kathleen asked MRC members to please sign up for a minimum of two events they are available for. Elisa and Kathleen plan to attend all of the events. Event times are listed below:

UWB Dates:

Feb 7 (Wednesday), 7-9PM

March 1 (Thur.), 7-9PM

April 19 22 (Sun, Earth day), 7-9PM

EvCC Dates:

Monday January 29: 6:30-8:30PM

Wednesday Feb 28: 6:30-8:30

Wednesday April 25: 6:30-8:30

Kathleen also passed around copies of the draft MRC brochure which was created by Snohomish County Public Works Communication staff. The brochure includes information about the Northwest Straits, the MRC, the movie events, and the MyCoast app. Kathleen asked the MRC members to look at the brochure and let her know if there were any edits they would like to see done. The brochure is intended to be used at the movie events to be handed out as people come in.

Debbie gave an update on the UW Bothell event logistics. Debbie has been working with UW Bothell to secure the room and the necessary equipment for the events. The room at UW Bothell has all of the AV equipment in it which will be used during the events. Cascadia College, which is connected to UW Bothell, has also offered student support for the events. Steve, a Cascadia College student is working to promote the event throughout the campus and post posters. Steve intends to attend the UW Bothell events as a volunteer as well. UW Bothell will be providing and speaker to introduce the event on their campus.

Sarah gave an update on the Everett Community College (EvCC) event logistics. Sarah and Elisa toured the Jackson Conference Center where the event will be held in December. Ardi from the Ocean Research College Academy is the main contact for EvCC and was at the tour. During the tour there were facilities employees who helped show Ardi, Sarah, and Elisa how to use the equipment to show the videos. Both DVD's can be shown as well as video played off of the computer. Microphones will also be available. Technical assistance will be available during the set up for the event on Monday 1/29 as well.

Debbie has secured a popcorn maker for the UW Bothell events. Kathleen asked if anyone knew of a popcorn maker to use for the EvCC events. Laura said that the Port of Everett does have a popcorn maker which they use for their events. Laura will ask the Port of Everett if the popcorn maker can be used for the MRC events.

Kathleen asked MRC members to report which school districts have been contacted about the events. Sarah reported that she has reached out to the Everett School District, Lake Stevens School District, and the Mukilteo School District. Emma, the Girl Scout working with the MRC, is promoting events throughout the Edmonds School District. Kathleen reported that Franchesca has been working with the Arlington School District and Traci has been working with the Snohomish School District.

Kathleen encouraged MRC members to continue to post posters around Snohomish County. The MRC discussed libraries, schools, and other locations which haven't been posted yet and decided who was able to go to those locations. All posters were handed out to be posted.

MRC Administration

Kathleen reported that applications are now available for the MRC Opportunity fund. Kathleen suggested that the MRC apply for the 2018 opportunity fund to pay for consultant fees to process

forage fish samples being collected at the nearshore beach nourishment sites, Meadowdale, and Picnic Point. The MRC agreed to use the Opportunity Fund to help cover forage fish consultant costs. Mike asked how much money will the MRC need to request for the consultant from the opportunity fund. Elisa responded that each survey costs a maximum of \$1,000 to have the samples picked up, processed, analyzed, and reported on by the consultant. The MRC conducts a minimum of 7 surveys each year; once a month between August and February. Therefore, the MRC would estimate that they need to request about \$7,000 for these services. Kathleen asked if anyone is interested in starting a draft of the grant application. Kathleen will follow up with the grant instructions with the MRC. The grant is due February 28, 2018.

Next, Kathleen led the MRC in conversation for the 2018 MRC Executive Committee. The MRC will be voting on Chair, and Vice Chair(s) for 2018 this meeting. Franchesca Perez has served 2 terms as MRC Chair and is stepping down. Franny will serve as "Past Chair." Sarah volunteered to be MRC Chair for 2018. Bob Hillmann and Mike Ehlebracht volunteered to be co Vice-Chairs for the MRC.

Paul Clampitt made a motion to approve Sarah Brown as Chair for the MRC for 2018. Tom Doerge seconded the motion. All approved and the motion passed.

Laura Gurley made a motion to approve Bob Hillmann and Mike Ehlebracht as co Vice-Chairs of the MRC Committee for 2018. Susan Tarpley seconded the motion. All approved and the motion passed.

Snohomish County MRC 2018 Executive Committee:

- Sarah Brown, Chair
- Bob Hillmann, co Vice-Chair
- Mike Ehlebracht, co Vice-Chair

Kathleen also discussed the annual MRC Retreat, which is being held this year in place of the February MRC meeting. The MRC retreat will be on Thursday, February 8th. Kathleen passed out copied of the MRC subcommittees and asked MRC members to review this chart before the Retreat. At the retreat the MRC will be going over subcommittees. MRC members will have the opportunity to change or become a part of a subcommittee. MRC members will also discuss leadership for each subcommittee at the retreat. Kathleen asked for any feedback on the subcommittee work at the retreat from last year. Laura said that she enjoyed getting an overview of each subcommittee at the 2017 Retreat.

The MRC also expressed interest in talking about lessons learned at the 2018 Retreat. Mike suggested the MRC also have a more in-depth conversation about how MRC members can advocate with council-members as county-appointed board members. There has been some confusion recently on how and when MRC members can use their experience as MRC members to advocate on issues relating to the county. Jerry Masters suggested using the MRC annual report to Snohomish County Council as more of an opportunity to share their suggestions with Councilmembers. Another suggestion was to talk to Monte Marti, the Director of the Snohomish Conservation District, on how to best communicate with Snohomish County Council. Mike Ehlebracht offered to follow up with Monte for advice. Kathleen agreed to add these topics to the 2018 Retreat.

Finally, the MRC discussed an update to the MRC Bylaws for the 2018 Retreat. Kathleen passed out copies of the Bylaws and asked all MRC members for review the bylaws prior the Retreat. Specifically, Kathleen requested members read the Conflict of Interest and Ex-Officio sections. These sections will be reviewed and edited at the 2018 Retreat.

Derelict Vessel Project Update

Snohomish County is moving forward with the proposed removal of eight boats from the Snohomish River Estuary. Kathleen reported that currently Snohomish County staff are preparing the DES work order requests and laying the groundwork to post the vessels and send out the notices necessary in order to begin the possession taking process. Kathleen said the team is hoping to post the vessels and begin the process to take possession and ultimately remove the vessels in the several months. A list of the vessels is below:

Vessels proposed to be removed:

<u>DVRP ID</u>	<u>Name</u>	<u>Vessel ID</u>
SN06-010	Elusive Dream	36858?
SN08-002	Unknown	WN 0864 NC
SN17-003	Unknown	Unknown
SN17-004	Unknown	Unknown
SN11-005	Thunderchief	Unknown
SN17-002	Unknown	Unknown
SN17-005	Celia Jean	WN 6936 JC
SN17-008	Unknown	Unknown

Announcements

- **NWSC Update (Paul):** Paul reported that the NWSC Director, Rich Childers, has stepped down after about one year. Paul said that there were no major issues, just that Rich has decided that the job was not a perfect match for him and he has decided to step down at the end of January. The NWSC has begun working on a process for filling the position. Paul also noted that he is serving as the Vice-Chair of the NWSC.
- **LIO (Paul):** Paul reported that there was an LIO Workshop earlier today. The workshop went over the process for creating Fact Sheets which will be due March 30. Several presentations were given on NTA pre-submittal ideas. The MRC has submitted three NTAs: Derelict Vessel Removal, Creosote Piling Planning, and Creosote Piling Removal Projects. All of these NTAs are within the Snohomish River Estuary.
- **Forage Fish Update (Elisa):** Elisa reported that the next forage fish sample will happen February 23rd at Howarth Park and the nearshore sites. MRC members have volunteered to help with that event. Furthermore, Elisa, Tom, and Debbie will be taking samples on February 22 at Meadowdale and Picnic Point. The February forage fish survey is scheduled for February 20th.
- **MRC Retreat:** Kathleen will send out address for the event. Catering will be provided.
- **The Edmonds Starlight Beach Walk** will be February 26th. The MRC has agreed to provide hot chocolate and lighted wristbands for the event.
- **Mussel Watch (Mike):** Mike announced that three mussel watch cages were successfully installed by MRC volunteers. We will be retrieving the cages on February 27th. Elisa will check in with Lincoln to ensure that Lincoln is available to return the mussels to WDFW.

The meeting adjourned at 8:36 pm.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

February 8, 2018 3-7PM

<p>MRC Members Present Franchesca Perez Bob Hillmann Mike Ehlebracht Cathy Stanley Paul Clampitt Traci Sanderson Sarah Brown Laura Gurley Deborah Hopkins Tom Doerge Craig Wollam</p> <p>Absent Susan Tarpley (excused)</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, Snohomish County MRC Lead Staff Elisa Dawson, Snohomish County MRC Planner</p>
<p>Summary of Decisions</p> <ul style="list-style-type: none"> • January 17, 2017 MRC Meeting Summary was approved • The MRC approved NTA letters of support with minor edits for the SHARP program and Shoreline Effectiveness Monitoring with the NWSF. • Paul will serve at the NWSC representative and Tom will serve as the alternate. • Paul serve as the LIO representative and Traci will serve as the alternate. 	
<p>Upcoming Events</p> <ul style="list-style-type: none"> • February 20th forage fish survey • February 26th Starlight Beach Walk at Edmonds. 7-8:30PM • February 27th MRC mussel watch retrieval • February 28th Our Coast Movie Night at EvCC 6:30-8:30PM • March 1st Our Coast Movie Night at UWB. 7-9PM • March 20th MRC Annual Presentation to Council • March 20th regional kelp meeting 	

Welcome and Introductions

Chair Sarah Brown opened the Marine Resources Committee (MRC) 2018 retreat with a quorum at 3:05pm. Sarah welcomed everyone to the 2018 MRC Retreat and thanked the members for their time. Sarah stated that the goals of the retreat are to complete the 2018 work plan, brainstorm ways to advance the MRC in 2018, build connections and group cohesiveness, revisit the subcommittee lists, update the bylaws, start thinking about the MRC grant for next year, and vote on the Northwest Straits Commission (NWSC) and Snohomish –Stillaguamish Local Integrating Organization (LIO) Representatives.

Team Building Exercise

Sarah Brown asked everyone from the MRC to go around and introduce themselves, and share their first ocean memory, and their favorite ocean memory. Through this exercise, the members had the opportunity to share where their interest in marine environments started. MRC members also had the opportunity to learn more about each other's passion for the marine environment.

Approval of MRC Meeting Summary

Tom Doerge made a motion to approve the January 17, 2018 MRC Meeting Summary. Mike Ehlebracht seconded the motion. There was no discussion. All were in favor and the motion passed.

Revisions to the MRC Bylaws

Sarah Brown and Kathleen Pozarycki passed out copies of the proposed revisions to the MRC Bylaws. There were several questions regarding the language in the "Conflict of Interest" section. MRC members and staff brainstormed ways to clear up the language. Franchesca Perez offered to send MRC staff example language from other documents to help clear up concerns about the "Conflict of Interest" language. Kathleen will update the Bylaws with new language.

MRC Representatives for the NWSC and LIO

Sarah asked for volunteers to serve as representatives for the LIO and NWSC. Paul offered to continue to serve as the representative for both the NWSC and LIO. Tom volunteered to serve as the alternate for the NWSC. Traci volunteered as an alternate for the LIO. There were no other volunteers. Sarah made a motion that Paul would be the LIO and NWSC representative with Tom as the alternate for the NWSC and Traci as the alternate for the LIO. Sarah asked for all those in favor to say "aye." All were in favor of these appointments and the motion passed.

MRC Commitments Letters of Support for the Northwest Straits Foundation (NWSF)

Kathleen explained that the NWSF is seeking letters of support from the MRC for the two Near Term Actions (NTAs) they plan to submit into the 2018 Action Agenda. The NWSF is seeking support letters for their Shoreline Armor Reduction Program (SHARP), and a Shoreline Effectiveness Monitoring Program. Mike made a motion to approve the letters with an edit to remove Rich Childers as the Executive Director of the NWSC. Traci seconded the motion. All were in favor and the motion passed.

Brainstorm Strategy to Implement Current Work Plan

This year the MRC subcommittee leads gave brief presentations of their 2017 successes, challenges and Lessons Learned/Next Steps to help create a more effective 2018 work plan. Sarah facilitated the group through each subcommittee's presentation.

1. MRC Grant
 - a. Admin- Kathleen/Elisa
 - b. Storm Surge Project- Franny
 - c. Ocean Literacy- Sarah
2. Nearshore Restoration Project- Kathleen/Elisa
3. Forage Fish Spawning Surveys- Cathy
4. Meadowdale Design and Cost Benefit- Mike
5. Derelict Gear/Vessels- Paul
6. Recreational Fisheries/Rockfish Crabber Social Marketing Project- Bob
7. Mussel Watch- Mike
8. Oil Spill Preparedness- Susan (provided after the retreat)

9. Kelp Monitoring- Tom/Traci
10. Snohomish Estuary Clean up Group together with Derelict Gear- Paul
11. Stillaguamish River Gauge- Franny
12. Port Susan Marine Stewardship Area- Debbie, SHARP Program Workshop
13. Beach Watchers Update- Craig
14. Port Partnership- Laura
 - a. Film Events
 - b. Derelict Boats
 - c. Nearshore Project

MRC Grant Administration- Kathleen/Elisa, All

- a. Quarterly Grant Reports and Billing Management and Volunteer Hour Tracking
 - a. Volunteer hours due each quarter to Elisa- **All**
 - i. Volunteer hours due 4/4/2018
 - ii. Volunteer hours due 7/5/2018
 - iii. Volunteer hours due 9/25/2018
 - b. Progress Reports
 - i. Quarter 2 progress report due 4/10/2018
 - ii. Quarter 3 progress report due 7/10/2018
 - iii. Quarter 4 progress report due 9/29/2018
- b. Meeting Logistics and Facilitation
- c. Annual Report- Due 4-10-18
 - a. Send draft to MRC for review- **Kathleen**
 - b. Proofreading/Editing- **Sarah, Bob, Mike**
 - c. Develop 3-4 Council recommendations in bullet form
 - i. **Sarah and Kathleen** send out email with recommendations prior to March 1st for discussion at meeting
 - ii. Snohomish County Council presentation scheduled March 20th at 9:00 a.m..
- d. Annual Work Plan- Due 3-20-18
 - a. Send draft to MRC for Review
 - i. **Kathleen** send out by 3-9-18
- e. Website Management
 - a. Web master volunteer team- Debbie and **Traci**
 - i. Continue to provide access log in and training- **Kathleen with help from Sasha H.**
 - b. Review project webpages and update as necessary- **All MRC Members**
 - i. Review all website text and links and send suggestions to MRC Staff by 5-21-18
 - ii. Make edits as appropriate **Traci and Debbie**
 - c. Create Project page for MRC Grant **Elisa**

Storm Surge Monitoring Project- Kathleen, Elisa, Franny (Leads), Craig

Highlights: 32 storm surge reports from volunteers during the 2016-2017 storm season. A water level probe was installed at Kayak Point beach to give site-specific information.

Lessons Learned/Next Steps: The 2016-2017 winter season did not have many large storm events. There were some challenges with the PVC housing and new housing needs to be installed for the device at Kayak Point Park. We have purchased a second device, which needs to be installed at a new location.

- a. Reinstall housing at Kayak Point Park during low tides in the spring. Due 6/1/18 **Elisa, Franny**
- b. Find a second location and install for the second probe. Due 9/1/18 **Kathleen, Elisa, Franny, Craig**
- c. Reach out to volunteers to thank for their participation Due 5/1/18 **Elisa, Franny**
- d. Work with USGS to update Storm Surge form 9/1/18 **Kathleen, Elisa**

Ocean Literacy Project- Debbie, Sarah, Franny, Traci, Kathleen, Elisa, (Leads), all

Highlights: The team has chosen a great group of movies and scheduled events. Everyone has volunteered to help out with at least two events this year for this event.

Lessons Learned/Next Steps: There is still outreach to do for the events. Working on reaching out to more local school districts.

- a. Secure speakers for all events 4/25/18 **Debbie, Sarah, Franny, Traci Kathleen, Elisa**
- b. Continue outreach for events
 - i. Newspaper paid ad 4/25/18 **Kathleen, Elisa**
 - ii. Posters around town 4/25/18 **Debbie, Sarah, Franny, Traci Kathleen, Elisa**
 - iii. Press releases 4/25/18 **Debbie, Sarah, Franny, Traci Kathleen, Elisa**
 - iv. Facebook events 4/25/18 **Kathleen, Elisa**
- c. Reach out to school districts **Debbie, Sarah, Franny, Traci**

Nearshore Beach Restoration Project Monitoring and Maintenance- Kathleen, Elisa, Bob, Laura

Highlights: Congressman Rick Larsen toured the site in spring 2017. It was a great way to showcase our work both locally and for Washington D.C. decision makers.

Lessons Learned/Next Steps: Sediment continues to move. The team is currently monitoring the movement of sediment to determine what adaptive management may be needed. Erosion is occurring around the project culvert, possibly due to high stream flows.

- a. Determine Next Steps for future Maintenance Plan **Kathleen, Elisa, Laura, Bob**
 - i. Assess Army Corp Opportunity for beneficial reuse project-**Kathleen & Laura**
- b. ESRP Nearshore Learning Grant with UW Summer Monitoring **Kathleen, Elisa**

- c. Sediment Sample Analysis- Lab work continues, needs data analysis **Kathleen, Elisa**
- d. Forage Fish Monitoring Photo Analysis- Need to organize 2017- 2018 photos into site based time series **Elisa, MRC Summer Intern**

Forage Fish Spawning Surveys- Kathleen, Elisa, Bob, Cathy, Craig, Susan, Franny, Cathy, Paul, Mike, Susan, Sarah, Traci

Highlights: Forage Fish eggs were found at many of the nearshore beach nourishment sites. Positive samples have come from 2N, 5N, 6S, 9N, 12S7, 12N7, 13S10, 13S7, 13N10, 13N7, and our Howarth Park restored site.

Lessons Learned/Next Steps: We have adjusted our monitoring technique after receiving feedback from WDFW. Instead of just going to the 7' tidal range, we look for appropriate forage fish spawning sediment for forage fish spawning.

- a. Winter Sampling: Determine schedule and sites for 2018-2019 sampling- 6/1/18 **Kathleen, Elisa**
- b. Summer Sampling: Howarth Park & Restored Index Site (Sites 12 & 13) sampled monthly **Elisa**
- c. Set up monthly sampling dates for the index site based on tides lower than 7 ft.
 - i. Volunteer help for collecting samples- sign up for sample dates- **all**
 - ii. Summer Blue vortex- **Elisa/Traci lead at respective offices depending on schedule**
 - iii. Deliver monthly index samples to WDFW- **Elisa**

Meadowdale Park Design and Cost Benefit Analysis- Mike, Kathleen, Elisa

Highlights: Earth Economics is working to complete a cost benefit report. The 30% design for Meadowdale was completed. The team continues to meet with BNSF and work together on this project.

Lessons Learned/Next Steps: There have been significant edits to the first draft of Earth Economics cost benefit report. A revised report will be available in mid-February. Determining numerical valuations for ecosystem services has been a very subjective process, but the team has worked to strengthen the report for MRC and partner review.

- a. Feedback to the Cost Benefit Analysis Report. 2/28/18 **Mike, Kathleen**
- b. Report to MRC on the Cost Benefit Analysis Report from Earth Economics 5/1/18. **Mike, Kathleen**
- c. Share cost benefit report results with partners and support funding strategy. **Mike, Kathleen**

Derelict Gear- Vessels and Crab Pot Removal- Paul, Susan, Cathy, Kathleen

Highlights: The MRC worked with the Northwest Straits Foundation to ensure funds were available for derelict crab pot removal in Port Gardner. Surface Water Management has now created a process to work within State of Washington code to remove derelict vessels. SWM continues to work on the derelict vessel removal project with funds the MRC secured from the NTA process and through the state reimbursement program.

Lessons Learned/Next Steps: Snohomish County has gained a better understanding of the state rules and regulations and is establishing a pilot program to remove derelict vessels in the Snohomish Estuary, which will make removal easier in the future.

- a. Work with SWM to post identified derelict vessels for removal 6/1/18 **Paul, Kathleen**
- b. Remove Derelict Vessels 11/1/18 **Paul, Kathleen**
- c. Work with WDFW and Northwest Straits Foundation about their funding to conduct a 2019 derelict crab pot removal 11/1/18. **Kathleen, Susan**

Recreational Fisheries Education/Crabber Social Marketing- Bob, Paul, Cathy, Sarah, Susan, Craig, Laura

Highlights: The MRC reached out to over 2,000 people last year at the Everett 10th Street Boat Launch, the Kayak Point Pier and Boat Launch, and at the City of Edmonds Olympic Beach Visitor Station and Fishing Pier.

Lessons Learned/Next Steps: The largest rush of people happened from 6AM-12PM. Not many people were reached during the 3rd shift, 12PM-3PM. For 2018 the team decided to do 2 shifts (6AM-9AM and 9AM-12PM) but on three different days. The first two days of the crabbing season and the following Saturday at the Everett 10th Street Boat Launch and the Kayak Point Pier and Boat Launch.

- a. Coordinate with Beach Watchers for Crabber Opening Day July 1, 2, and 8- **Bob and Paul**
- a. Plan is to hit all the fishing piers and Kayak and Everett Boat Launch
- b. Create Plan of additional events for the Year- **Bob**
- c. Inventory existing supplies, consolidate and work with Beach Watchers to put together packets for 2018 including Bait Clips, Crabber Nautical Charts, and Crab Gauges- **Bob and Paul**
- d. Work with Don Velasquez from WDFW to order more crab gauges **Elisa**
- e. Create plan for Organization and Distribution- **Bob and Paul**
- f. Parking Permit and Special Use Permit from the Port, 20 needed over two days- **Laura**
- g. Continue to take advantage of outreach and education opportunities during the entire summer season available at the Edmonds' Olympic Beach Visitor Center and Fishing Pier

Working Dinner Break

The MRC paused for a working dinner break at 5:30p.m. Kathleen encouraged the MRC members to discuss ideas for next year's MRC grant. During the break, members discussed more opportunities for using the MyCoast application and website, and ideas to make it more effective. The MRC will continue to consider ideas for the next MRC grant opportunity.

Mussel Watch- WDFW Caged Study- Mike, Susan (City of Edmonds), Laura (Port of Everett), Traci, Tom, Craig, Debbie, Elisa

Highlights: The MRC sponsored a Mussel Watch cage at City of Edmonds Brackett's Landing. MRC members volunteered to deploy cages at Meadowdale and the Port of Everett that were sponsored by WDFW. All three cages were installed during low tides in December 2017.

Lessons Learned/Next Steps: This year deployment was delayed because of a harmful algal bloom at Penn Cove.

- a. MRC sponsor: Edmonds at Brackett's landing – **Susan is lead**
- b. MRC volunteer for install and retrieval at Meadowdale at Port of Everett. **Mike (Meadowdale), Laura (Port of Everett), Traci, Tom, Craig, Debbie, Elisa**
- c. Cage Retrieval – February 2018 **Mike, Susan (City of Edmonds), Laura (Port of Everett), Traci, Tom, Craig, Debbie, Elisa**

Oil Spill Preparedness- Susan, Franny, Mike, Paul, Debbie, Craig

Highlights: Successfully encouraged Snohomish County Department of Emergency Management (DEM) to facilitate a multi-jurisdiction, virtual tabletop exercise designed around the realistic scenario of a Bakken oil train derailment. This discussion-based exercise, sponsored by FEMA's Emergency Management Institute, helped participants think about creating a more coordinated response, in the event of an oil spill. Participated in the National Academy of Sciences' webcast "[Preparing for a Rapid Response to Major Marine Oil Spills: A Workshop on Research Needs to Protect the Health and Well-being of Communities](#)". Two MRC members attended WA Dept of Ecology's Oiled Wildlife Hazwoper Training to assist in a large-scale wildlife response, if needed. The MRC reviewed and offered substantive comments on the state's Draft Stillaguamish Geographic Response Plan that focuses on regional oil spill response strategies.

Lessons Learned/Next Steps: Continue important partnership with Snohomish County Department of Emergency Management

- a. Schedule Subcommittee meetings as needed
- b. Continue to Network moving forward. Emphasize the paramount need for pro-active spill preparedness.
- c. Promote the value of multi-organization/multi-jurisdictional tabletop exercises and hands-on drills involving realistic scenarios, particularly oil train derailments.
- d. Continue to work collaboratively with DEM and other organizations
- e. Participate on the Local Emergency Planning Committee (LEPC) - Susan
- f. Update Oil spill section on the MRC website

Kelp Monitoring- Tom, Traci, Kathleen, Elisa

Highlights: Sampling was conducted in August of 2017 instead of once a month over the summer. Sampling went very well. SWM GIS staff created maps to compare the last three years of sampling. Bull kelp beds appear to be smaller in size, and the team is not sure of the cause of the decline. It may be due to sampling variables such as tide height and variations in the growing season. The kelp beds appear to be located in the same relative place over the three years of sampling.

Lessons Learned/Next Steps: We need to continue to increase our understanding of what conditions kelp beds should be in to choose survey dates. Each year the growing season for kelp changes and we should try to survey when kelp is at its largest proliferation.

- a. Track Protocol Changes/NWSC Effort- **Tom**

- b. Send photos to Lucas Hart/NWSC 5/7/18- **Elisa**
- c. Set Dates for 2018 monitoring and create a team 5/14/18 **Tom, Traci, Kathleen, Elisa**
 - i. Consider doing only one month of sampling in 2018 as we did in 2017
- d. Get safety training for new volunteers and ensure SWM supervisors are aware of plan 6/1/18 **Tom, Traci, Kathleen, Elisa**
- e. Ensure each volunteer signs insurance liability waivers 7/1/18 **Tom, Traci, Kathleen, Elisa**
- f. Find sea kayaks for monitoring- Check with Lincoln or Doug Dailer (Ranger at Meadowdale park) 7/1/18 **Tom, Traci, Kathleen, Elisa**
- g. File float plan for each event 7/1/18 **Tom, Traci, Kathleen, Elisa**

Port Susan Marine Stewardship Area- Kathleen, Elisa, Traci, Debbie

Highlights: Staff attended the Warm Beach Summerfest in 2017 to conduct outreach. The MRC has partnered with the Northwest Straits Foundation Shoreline Armor Reduction Program (SHARP) and held a workshop for shoreline landowners in October 2017.

Lessons Learned/Next Steps: It was useful to attend the Warm Beach Summerfest to talk with landowners in a place/time in which they are already gathering. We can continue to do more work with tribal partners and have begun conversations with the Tulalip Tribes.

- a. SHARP project NTA partnership with the Foundation
 - i. Site visits in partnership with the Foundation
 - ii. Education and Outreach- find willing landowners to consider bulkhead removal
 - iii. Summer Homeowner Association Presentations

Stillaguamish River Gauge- Kathleen, Franny

Highlights: A gauge was installed in partnership with Snohomish County, USGS, and the Stillaguamish Tribe on the Stillaguamish River just past Marine View Drive. The main purpose of the gauge is to monitor flooding.

Lessons Learned/Next Steps: The gauge monitors water height; we would like add salinity and turbidity to parameters with additional funding.

- a. Check with USGS, Snohomish County, and Stillaguamish Tribe to see if we can monitor for salinity or turbidity. **Franny**

Retreat Wrap Up

Sarah thanked the MRC for their time at the retreat. Their work will help us complete the 2018 work plan.

Announcements

There are many MRC events coming up!

- February 20th forage fish survey
- February 26th Starlight Beach Walk at Edmonds. 7-8:30PM
- February 27th MRC mussel watch retrieval
- February 28th Our Coast Movie Night at EvCC 6:30-8:30PM
- March 1st Our Coast Movie Night at UWB. 7-9PM

- March 20th MRC Annual Presentation to Council
- March 20th regional kelp meeting

Running List of MRC Actions:

- Franchesca will send Kathleen information on conflict of interest language to continue to brainstorm language for bylaws.
- Kathleen will send MRC updated bylaws with new conflict of interest language.
- MRC staff and executive committee will update the annual report for the March 20 presentation to council.

The meeting adjourned at 7:20 pm.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

March 21, 2018 6:30-8:30PM
3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor

<p>MRC Members Present Tom Doerge Mike Ehlebracht Laura Gurley Bob Hillmann Deborah Hopkins Susan Tarpley Sarah Brown Paul Clampitt Franchesca Perez (by phone) Traci Sanderson Craig Wollam</p> <p>Absent Cathy Stanley (excused)</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff Elisa Dawson, Snohomish County MRC Planner</p> <p>David Bain, Orca Conservancy Kari Quass, Snohomish Conservation District Logan Daniels, Snohomish County Parks Matt Van Deren, Earth Economics</p>
<p>Summary of Decisions</p> <p>The MRC approved the February MRC Meeting Summary with edits.</p>	
<p>Upcoming Events</p> <ul style="list-style-type: none"> ● April 4-6th Salish Sea Conference. Seattle, WA. ● April 18th MRC Meeting. Snohomish County Campus. Everett, WA ● April 22nd Our Coast Movie Night at UWB. 7-9PM. Chasing Coral Screening ● April 25th Our Coast Movie Night at EvCC. 6:30-8:30PM. Chasing Coral Screening 	

Welcome and Introductions

Chair Sarah Brown opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Sarah introduced herself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Laura Gurley made a motion to approve the February 8, 2017 MRC Meeting Summary with edits. Mike Ehlebracht seconded the motion. All were in favor and the motion passed.

Earth Economics Meadowdale Ecosystem Valuation Presentation

Matt Van Deren introduced himself as the Western Washington Program Director for Earth Economics. Earth economics does science-based economic analysis, and works with clients to identify

and place a dollar value on what nature provides. This analysis helps create a full understanding of nature's value so that decision makers can truly make the best choices for investment and planning.

The MRC used funds from the 2017 budget to help pay for a Benefit-Cost analysis of the Meadowdale Beach Park Estuary Restoration Project. Meadowdale Beach Park is a 108 acre park located in unincorporated Snohomish County, Washington, bordered by the cities of Edmonds, Lynwood, and Mukilteo. Park visitors access the beach by way of a six-foot-wide concrete box culvert under the railroad berm. This culvert also conveys the year-round flow of Lund's Gulch Creek. Due to the narrow opening of the culvert, sediment carried by the creek accumulates in the passageway, causing frequent flooding in the culvert and surrounding area. This flooding limits beach access for park visitors, limits salmon's use of the creek, and restricts nourishing sediments from reaching the beach.

In 2014, The MRC worked with Snohomish County Parks and Recreation and partnered with Snohomish County Surface Water Management Division, and Anchor QEA, to conduct a feasibility study to develop design alternatives that would improve beach access, enhance public safety, and restore habitat critical for native salmon species. After soliciting feedback from the local community, local organizations, and Tribes, design commenced on the preferred alternative park design, the Meadowdale Beach Park and Estuary Restoration Project (MBPERP). The MBPERP proposes the construction of a five-span railroad bridge to replace the existing culvert and enhance the connection between the park and shoreline. The bridge will allow for American Disability Act accessible pedestrian beach access and accommodate naturally occurring patterns of the creek's flow with enough room for the creek to carry nourishing sediment into the Puget Sound. The MBPERP also proposes the creation of two acres of restored estuary and riparian habitat to improve the natural and aesthetic value of the park. The restored estuary will provide critical habitat for juvenile Chinook salmon, currently listed as endangered under the Endangered Species Act, and other native species that thrive in tidal marshes and freshwater wetlands.

Because of the significant investment needed to initiate the MBPERP, Snohomish County contracted with Earth Economics to perform a holistic benefit-cost analysis (BCA) of the project. Earth Economics' analysis reveals that the MBPERP would unlock more than \$200 million worth of public benefits over the next 100 years, far outweighing the costs anticipated for the project. Earth Economics' benefit-cost analysis looks at the environmental, recreational, educational, and economic benefits unlocked by the MBPERP, as well as the dollar values associated with those benefits. When compared to a "no action" scenario, the significant marginal increase in public benefits that will be provided by the park following the implementation of the MBPERP far outweigh the project's costs. When considering a 100 year timeline, the MBPERP has a benefit-cost ratio of 4.35. In other words, Snohomish County can expect about \$4.35 in public benefits for every dollar it invests in the MBPERP.

Economic Benefits

Studies suggest that consumers are willing to pay more for homes that are close to parks. Studies also show that as the quality of a park improves, so does a consumer's willingness to pay for a home in the area. The MBPERP is expected to raise the value of homes around the park by 6.2%. Higher property values means Snohomish County can expect an additional \$20.1 million in real estate tax over the next 100 years.

Recreational Benefits

As a regional park, Meadowdale Beach Park draws visitors from across Snohomish County. By improving beach access, and preventing frequent flooding, the MBPERP is expected to increase recreation visits to the park by 1.6 million over the next 100 years. Recreation visits to local parks

have been shown to improve public health and community cohesion. These benefits are valued at \$41.1 million.

Educational Benefits

Currently, 16 different educational programs, ranging in size from 4 to 200 students, use Meadowdale Beach Park for educational purposes. Improvements made under the MBPERP are expected to increase the park's utilization as an outdoor classroom with an average of 1,200 students visiting the park each year for the next 100 years.

Environmental Benefits

Earth Economics' valuation of the ecosystem services provided by the park estimates that \$11.1 million to \$41.2 million worth of ecosystem services will be generated over the next 100 years, following the completion of the MBPERP. This valuation includes the significant addition of a pocket estuary, restored by the MBPERP, which will provide critical habitat for native salmon species, including Chinook salmon.

Overall, when compared to a "no action" scenario, the significant marginal increase in public benefits that will be provided by the park following the implementation of the MBPERP far outweigh the project's costs. Compared to a project cost of \$14 million, the Cost-Benefit Analysis shows \$60 million in benefits. When considering a 100 year timeline, the MBPERP has a benefit-cost ratio of 4.35. In other words, Snohomish County can expect about \$4.35 in public benefits for every dollar it invests in the MBPERP.

Matt finished his presentation and opened up the conversation for questions and comments from the MRC. Tom asked about the maintenance costs for the bridge and if those were included in the project costs. Matt replied that yes they are included and that the life span of the bridge is assumed to be 100 years. Bob asked where the 100 year life span of the bridge was from. Matt replied that this was the number given by BNSF to use.

Paul asked how much of the budget is just for the bridge. Logan Daniels from Snohomish County Parks replied that the bridge costs also include the road improvements and mobilization and demobilization along with the Operations and Maintenance Agreement with BNSF and that she would need to get back with the MRC on more details. Kathleen will follow up with Logan about the budget breakdown.

Laura asked how Earth Economics values things like eelgrass beds. Matt explained that Earth Economics uses studies and expert opinions. For the eelgrass beds, a consultant was able to give an opinion on how opening up the estuary would increase eelgrass habitat in the estuary. Earth Economics also looks at the different ways humans interact with something. For example, Earth Economics looked at the price of educating a student in a school system and broke the cost down to a per hour rate. This was then used to calculate the benefit of increased educational time at Meadowdale by multiplying the rate by the increased number of hours students would spend under the project scenario.

Matt finished with saying that the study does not include all benefits that the project may give. For example, travel costs, train safety and risk reduction, fine sediment additions, and other additional ecosystem services were not included. The team took a conservative approach to try to give a realistic number for the cost-benefit analysis. The MRC thanked Matt for his time and presentation.

MRC Presentation to Council on 2017 Annual Report and Accomplishments

The MRC gave their Annual Report to the Snohomish County Council Public Works Committee on Tuesday March 20th, 2018. Chair Sarah Brown and Lead Staff Kathleen Pozarycki gave the presentation. Staff Elisa Dawson and MRC members Traci Sanderson, Deborah Hopkins, Laura Gurley, Craig Wollam, Paul Clampitt, and Bob Hillmann were present. County Council members were very engaged in the presentation, and asked question on kelp data, mussel watch, crabber education, monitoring of temperate in Snohomish County marine waters, and more! Watch the [video here](#). Kathleen will follow up via email to answer the Councilmembers questions.

Kathleen encouraged MRC volunteers to stick around whenever possible after presentations to use the opportunity to speak with councilmembers and other members of the audience. Shaking hands and introducing yourself is a great way to make a personal connection.

2018 MRC Work Plan

Kathleen reported that the 2018 Work Plan is embedded in the February minutes. Once this Annual Report is finalized it will be turned in to the Northwest straits Commission for the Quarterly Reporting due in early April. Susan Tarpley completed the Oil Spill Subcommittee report which has been added to the 2018 MRC Work Plan. Below are her additions:

Oil Spill Preparedness- Susan, Franny, Mike, Paul, Debbie, Craig

Highlights: Successfully encouraged Snohomish County Department of Emergency Management (DEM) to facilitate a multi-jurisdiction, virtual tabletop exercise designed around the realistic scenario of a Bakken oil train derailment. This discussion-based exercise, sponsored by FEMA's Emergency Management Institute, helped participants think about creating a more coordinated response, in the event of an oil spill. Participated in the National Academy of Sciences' webcast "[Preparing for a Rapid Response to Major Marine Oil Spills: A Workshop on Research Needs to Protect the Health and Well-being of Communities](#)". Two MRC members attended WA Dept. of Ecology's Oiled Wildlife HAZWOPER Training to assist in a large-scale wildlife response, if needed. The MRC reviewed and offered substantive comments on the state's Draft Stillaguamish Geographic Response Plan that focuses on regional oil spill response strategies.

Lessons Learned/Next Steps: Continue important partnership with Snohomish County Department of Emergency Management

- a. Schedule Subcommittee meetings as needed
- b. Continue to Network moving forward. Emphasize the paramount need for pro-active spill preparedness.
- c. Promote the value of multi-organization/multi-jurisdictional tabletop exercises and hands-on drills involving realistic scenarios, particularly oil train derailments.
- d. Continue to work collaboratively with DEM and other organizations
- e. Participate on the Local Emergency Planning Committee (LEPC) - Susan
- f. Update Oil spill section on the MRC website

MRC Grant

Kathleen reported that the MRC needs to decide on projects for the MRC grant as well as the 2018 consultant budget. Kathleen presented a list of ideas for projects to the MRC. The MRC has already decided to spend \$5,000 of the budget towards Northwest Strait Foundation Derelict Pot Removal, but needs to determine other projects for 2018. Ideas included:

- Florian Graner- videos and curriculum for Snohomish County schools

- MyCoast app add-on feature to organize Forage fish pictures
- Funds for consultant to write forage fish report
- Feasibility Study for Howarth Park Culvert Upgrade/Repair
- Money for additional derelict boat removal
- Creosote piling prioritization and stakeholder process- Phase 1
- Stormwater Study- "removing local barriers to Green Infrastructure"

The MRC discussed using the 2018 consultant funds for the existing contract with NRC to analyze forage fish data and write a report. The MRC agreed that this would be a good way to spend funds. Additional funds could also be used to pay for the next subscription of the MyCoast app.

The MRC will continue to brainstorm ideas for the 2018-2019 MRC Grant. Kathleen will send out the MRC Training Guide graphic on how to choose projects.

LIO NTA Update

Elisa passed out copies of the Creosote Piling and Derelict Vessel NTAs which need to be submitted by the 3/30/18 deadline. Drafts for both of these NTAs are complete and were distributed for MRC review. The budgets for these NTAs will be reviewed at a meeting with LIO staff later this week. Elisa asked for the MRC to review both documents and get any edits to her by the end of the day 3/26/18.

Kathleen passed out copies of the Meadowdale Restoration Project NTA Logan Daniels from Snohomish County Parks plans to submit. Kathleen asked if the MRC would be interested in writing a letter of support for the Meadowdale NTA. The MRC agreed to write a letter of support. Mike Ehlebracht will draft the letter.

Announcements

- **NWSC Update (Paul):** Paul reported that he attended the NWSC Annual Retreat. The NWSC is looking for a new Executive Director. The retreat also focused on planning for future efforts to secure long-term funding for the Northwest Straits Initiative.
- **LIO (Paul):** Paul reported that he attended the LIO workshop on March 14th. The MRC is working to submit the two NTAs by the deadline of March 30th.
- **Forage Fish Update (Elisa):** Elisa reported that the MRC completed their seasonal sampling on February 23rd. Traci will take the monthly index site sample and blue vortex the sample monthly until August. The MRC is working to schedule ESRP monitoring for June in partnership with the University of Washington and SWM Staff.
- **Science Camp Scholarships (Sarah):** Sarah is fundraising for science camp scholarships. She will send out information on the scholarships via email.
- **Crabber Education (Susan):** Susan reported that she has been asked to do crabber education at the 10th Street Boat Launch in Everett for Opening Day. Susan asked the MRCs permission to do Crabber Education on May 5th at the Everett 10th Street Boat Launch participate. Everyone agreed that this was a good idea. .
- **State of the County Address (Mike):** Mike reported that he attended the State of the County address given by Snohomish County Executive Dave Somers. Mike will follow up with information on the event.

- **Regional Kelp Workshop (Tom):** Tom Doerge, Snohomish County Kelp Lead, reported that he attended the Puget Sound Kelp Recovery Plan workshop on March 20th. With support from NOAA, the Northwest Straits Initiative is working alongside numerous partners to develop a Puget Sound Kelp Recovery Plan. Tom represented the Snohomish MRC at this meeting and brought data from the MRCs 2015-2017 monitoring of kelp beds at Meadowdale, Mukilteo, and Edmonds. A follow up to the workshop is being scheduled for June.
- **Chasing Coral Posters (Elisa):** Elisa will make new posters for the Chasing Coral events using the Chasing Coral graphics.

The meeting adjourned at 8:43 pm.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

April 18, 2018 6:30-8:30PM

3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor

<p>MRC Members Present Tom Doerge Laura Gurley Deborah Hopkins Susan Tarpley Sarah Brown Paul Clampitt Franchesca Perez Craig Wollam Cathy Stanley</p> <p>Absent Mike Ehlebracht (excused) Traci Sanderson (excused) Bob Hillmann (excused)</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff Elisa Dawson, Snohomish County MRC Planner</p> <p>Robyn Rice, Meridian Environmental, Inc. Kari Quaas, Snohomish Conservation District</p>
<p>Summary of Decisions</p> <p>The MRC approved the March MRC Meeting Summary.</p> <p>The MRC formed a 2018-2019 MRC Grant subcommittee: Franny, Laura, Paul, Susan, Sarah, Elisa and Kathleen</p>	
<p>Upcoming Events</p> <ul style="list-style-type: none"> ● April 22nd Our Coast Movie Night at UWB. 7-9PM. Chasing Coral Screening ● April 25th Our Coast Movie Night at EvCC. 6:30-8:30PM. Chasing Coral Screening ● May 7th Pint-Sized Science event at Bean and Vine. Everett, WA ● May 16th MRC Meeting. Snohomish County Campus. Everett, WA ● June 7th Our Toxic Orca Event at Blue Water Distilling. Everett, WA 	

Welcome and Introductions

Chair Sarah Brown opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Sarah introduced herself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Tom Doerge made a motion to approve the March 21, 2017 MRC Meeting Summary. Susan Tarpley seconded the motion. All were in favor and the motion passed.

MRC Grant Discussion

Kathleen stated that the 2018-2019 MRC Grant Application is due May 22, and the goal of this agenda item is to choose the project idea. A conference call is scheduled for May 1st to discuss the grant with Northwest Straits Commission Staff Sasha Horst.

The MRC reviewed the requirements of grant projects. The project must:

- Be able to be accomplished in the time period available (end date September 30, 2019) and within the proposed budget (unless other funding is referenced in application).
- Include an evaluation plan that provides information to the MRC to determine whether the project achieved desired outcomes.
- Not be included in other grant proposals submitted or planned to be submitted through another entity (including through the Northwest Straits Foundation or to the Foundation's Opportunity Fund).
- Identify any sub-awards anticipated. Sub-award agreements with the Northwest Straits Foundation are not allowable.
- If a continuing project, clearly identify how this work is different from previous years, or describe why continuation of the same work is important.
- Be reviewed and approved at a meeting of the full MRC.

The MRC discussed three ideas for the grant projects. The first idea the MRC discussed was creating a series of Public Service Announcements (PSAs) which could be shown at movie theaters in Snohomish County. Franchesca stated she liked this idea because it would be an effective way to reach a variety of different audiences we may not have engaged with before. Franny will follow up with local theaters to ask about pricing. All MRC members also liked this idea.

The second idea discussed was to complete a feasibility analysis for a culvert. Specifically, the MRC discussed the culvert at Howarth Park. MRC members pointed out that there is a current study being done to prioritize culverts along the Puget Sound shorelines by Confluence. Kathleen didn't believe this study would be done before the grant started. Therefore, the MRC thought it would be best to wait until this study was completed. This idea was taken off the consideration list for this year for the grant but may be funded through other means.

The third idea discussed was to do a project which would gather further monitoring information of the Nearshore Restoration sites. The Nearshore Restoration Project was completed in July 2016. Since then, monitoring of forage fish eggs, grain size analysis, and mapping of sediment movement has been done regularly. The University of Washington also does monitoring each summer at several of the restoration sites, however, elevations of the land have not been completed regularly in order to gather volume movement of sand. This project would gather additional Real-Time Kinematic (RTK) satellite-based positioning system information and aerial footage of the project. Cathy said that some of this information does already exist, and just needs to be analyzed. Kathleen mentioned that the MRC would need to coordinate with SWM on boats and other logistical needs for this project. Several MRC members suggested focusing on analyzing data that has already been gathered before collecting more.

Based on this discussion, the MRC decided to focus on the PSAs project for the 2018-2019 grant. A subcommittee was formed for the 2018-2019 grant. Franny, Laura, Paul, Susan, Sarah, Elisa and Kathleen will serve on the subcommittee. The subcommittee will gather information and attend the May 1st consultation conference call with the Northwest Straits Commission.

Chasing Coral Film Events Logistics

The last two Our Coast Movie nights will be held on April 22nd at University of Washington Bothell and April 25th at Everett Community College. The film being shown at these two events is Chasing Coral. The MRC discussed logistics for both events.

The team will meet for set up at 5:45 on April 22nd at UW Bothell. Laura, Susan, Debbie, Elisa, Kathleen have volunteered to help at this event. Kathleen will be the guest speaker. Kathleen will work with Susan to develop a short presentation for after the film. Oliver, Debbie's husband, will be picking up pizza for the event. Elisa will be bringing supplies and the popcorn maker. Susan will bring additional sandwich boards for the event.

The team will meet for set up at 5:15 on April 25th at Everett Community College. Elisa, Kathleen, Sarah, Debbie, Franny, and Laura have volunteered to help at this event. Zachary Rago, film team member, will be the guest speaker at the event. Kathleen will check in with Zachary to ensure he has everything he needs for the event. Kathleen will be picking up pizza for the event. Elisa will be bringing the supplies and the popcorn maker. Franchesca will bring additional sandwich boards for the event.

Debbie suggested the MRC follow up with an email to participants from the last movie events to invite them to the final movie. Debbie also suggested a follow-up action after the movie could be to host informal events at the different photo point locations. This would get people out taking photos. Susan suggested this could be done at the Edmonds Visitor Station.

Drone Video of Derelict Boat Removal in Snohomish Estuary

Robyn Rice introduced herself to the MRC. Robyn received a degree in Aquatic and Fishery Science from the University of Washington with a focus in fisheries ecology. In summer of 2005 and again in spring of 2006, she was an intern for the Snohomish County Marine Resources Committee under Stef Frenzl. During her time with the MRC she worked on the juvenile Dungeness crab settlement and escape cord degradation studies with Don Velasquez at WDFW and several volunteers. Since 2007, she has worked as a Fisheries Biologist at Meridian Environmental, Inc. (Meridian). Meridian is a small consulting firm based in Seattle, and specializes in aquatic, wetland, and terrestrial ecology and regulatory compliance and permitting. For Meridian, Robyn assess marine and freshwater aquatic populations, implement water quality investigations, and delineates both wetland and eelgrass beds using Army Corps protocols.

In 2017, Robyn became a Federal Aviation Administration (FAA) certified Remote Pilot under Part 107 of the Federal Aviation Regulations (Certificate Number 4048572). This certification is required for any non-hobbyist small unmanned aircraft (UAS/UAV/drone) operations, including any commercial use for small drones. The certification requires a full understanding of the small UAS rules, including airspace regulations, and Remote Pilots must pass an aeronautical knowledge test. Since certification, she has flown a drone she owns to provide aerial images of pink salmon spawning surveys on the Skagit River in cooperation with Seattle City Light, and for private clients while conducting wetland and ordinary high water mark delineations.

Robyn would like to volunteer to provide aerial photography, video, and mapping services to the MRC during some of their summer projects. The MRC and Robyn discussed possibly opportunities to use drone photography for kelp monitoring along the Snohomish County shorelines and derelict boat removal in the Snohomish River Estuary. Robyn stated that the drone flights for these projects may

include photos, videos, and aerial mapping. Robyn noted that flights for projects would be limited to locations in Class E airspace, where FAA approval is not required, or to locations where instant authorization is available through the FAA's Low Altitude Authorization and Notification Capability (LAANC) system for Class D airspace around Paine Field. The LAANC system will come online for the West Coast in May of 2018. All flights for both projects would abide by Part 107 of the Federal Aviation Regulations. The Remote-Pilot-in-Command would be FAA-certified, and the drone would be limited to flying below 400 feet above ground level and would not be flown over individuals not directly involved in the drone operation. All flights would be conducted in daylight and within visual line of sight of the pilot, and in the safest way possible.

Robyn provided a slideshow of her previous work for the MRC to view. Kathleen stated that all drone related work will need to be approved by the County. Robyn will write up a memo on her qualifications and previous work and send it Kathleen. Kathleen will work with SWM management to get approval for the project.

MRC Bylaws update

Kathleen presented an updated version of the MRC bylaws. The bylaws were discussed at the MRC Retreat in February. Since then, MRC staff have gathered additional comments and examples from other MRCs along with the Snohomish County Conflict of Interest Executive Order language. Edits to the Bylaws included the following sections: Ex-Officio Members, Attendance, Chairperson, Conflict of Interest, Open Public Meetings, Agendas and Meeting Summaries, and Subcommittees. The updated Bylaws are attached to this meeting summary as Appendix A.

The MRC reviewed the revised bylaws. One additional edit was suggested to switch the order of a sentence. Paul Clampitt made a motion to approve the Bylaws with the grammatical fix as presented at today's meeting. Laura Gurley seconded the motion. All were in favor and the motion passed. The updated Bylaws will be added to the MRC Website and sent to the Northwest Straits Commission.

Announcements

- **NWSC Update (Paul):** Paul reported that Lucas Hart has been selected as the Northwest Straits Commission Director. Lucas was the previous Marine Program Manager for the Northwest Straits Commission. The Commission continues to work on securing dedicated funding.
- **LIO (Elisa):** Elisa reported the MRC submitted two Near Term Action (NTAs) to the Puget Sound Partnership on March 29th. NTA 2018-0584 Snohomish Estuary Derelict Vessel Removal was submitted for a project to remove function-limiting derelict vessels from prioritized sites in the Snohomish River estuary to protect and restore critical habitat for salmon population. This NTA builds upon the current derelict vessel removal project in progress with funds received from the 2016 round of NTA funding. NTA 2018-0589 Snohomish Estuary Creosote Piling Removal Planning, Prioritization, and Removal was submitted for a project to remove function-limiting creosote pilings from prioritized sites in the Snohomish River estuary to protect and restore critical habitat for salmon populations. This NTA includes a planning phase and a demonstration project to remove creosote pilings.. NTAs will be reviewed over the next few months.
- **Forage Fish Update (Elisa):** Elisa reported that Traci continues to lead the monthly forage fish sampling at the index site at Howarth Park. The MRC is working to schedule the Estuary and Salmon Recovery Program (ESRP) monitoring for June in partnership with the University

of Washington and SWM Staff. Elisa provide a summary of eggs found during the last forage fish monitoring season to the MRC.

- **City of Everett Shoreline Master Plan (Sarah):** Sarah, Laura, and Bob are taking part in the City of Everett Shoreline Advisory Committee to update the City’s Shoreline Master Plan. The Shoreline Advisory Committee is comprised of community representatives, stakeholders, interested citizens and agency representatives to oversee community outreach and involvement. The committee will help city staff host a community meeting in June to provide a forum for further public outreach, to identify issues to address, and present proposed revisions to the Shoreline Master Program and the Shoreline Public Access Plan.
- **Puget Sound Day on the Hill (Kathleen):** Kathleen reported that she has been invited to attend the 2018 Puget Sound Day on the Hill, May 22-24th. Kathleen will be attending with the Northwest Straits Commission Staff to represent the Snohomish MRC, the Northwest Straits Initiative in general, and Snohomish County Surface Water Management.
- **Our Toxic Orcas Event June 7 (Susan):** The organizers of the June 7 event “Our Toxic Orcas” are seeking a speaker from the MRC to present on the MyCoast App. The event is part of Orca Awareness Month and is being hosted by the Washington Environmental Council and the Ocean Research College Academy.
- **Article in Bothell-Kenmore Reporter (Debbie):** Debbie was interviewed by the Bothell-Kenmore reporter for the MyCoast film series. View the article [here](#).
- **Derelict Vessels Project (Kathleen):** Kathleen continues to work with Snohomish County Staff to finalize the contract and post boats for removal. Staff hope to post boats for removal in early summer. The boats must be posted for 60 days before removal can begin.

The meeting adjourned at 8:38 pm.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

May 16, 2018 6:30-8:30PM

**3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor**

<p>MRC Members Present Mike Ehlebracht Bob Hillmann Traci Sanderson Tom Doerge Laura Gurley Deborah Hopkins Susan Tarpley Franchesca Perez Craig Wollam</p> <p>Absent Cathy Stanley (excused) Paul Clampitt (excused) Sarah Brown (excused)</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff Elisa Dawson, Snohomish County MRC Planner</p> <p>Dan Van Hees, Northwest Straits Commission Kari Quaas, Snohomish Conservation District Lincoln Loehr, Citizen</p>
<p>Summary of Decisions</p> <p>The MRC approved the April MRC Meeting Summary.</p>	
<p>Upcoming Events</p> <ul style="list-style-type: none"> ● June 7th Our Toxic Orca Event at Blue Water Distilling. Everett, WA ● Snohomish Basin Implementation Committee Meeting May 31st ● Forage Fish Training June 1st at Padilla Bay ● UW ESRP monitoring June 4, 5, 10, 11, 12 ● Crabber Education Training at WSU June 21st ● June 29 MRC Presentation on 2018-2019 grant at NWSC meeting in Island County 	

Welcome and Introductions

Co-Chair Mike Ehlebracht opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Mike introduced himself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Tom Doerge made a motion to approve the April 18, 2017 MRC Meeting Summary. Bob Hillmann seconded the motion. All were in favor and the motion passed.

Net Ecosystem Improvement

Kathleen introduced Dan Van Hees. Dan Van Hees is the new Net Ecosystem Improvement (NEI) Coordinator with Northwest Straits Commission (Commission). The NEI Coordinator is a temporary position for the Commission which will go through November. The primary goal of the NEI project is to quantify overall ecological impacts of MRC volunteer restoration efforts. Dan explained that this is a broad goal, with the ultimate hope that he will help the Commission have a better understanding of the ecological impacts of many, if not all, MRC restoration and monitoring projects. To start this project, Dan is visiting the seven MRCs to present a little bit about NEI, and also have a discussion on how he could help the MRCs use NEI on their projects.

The Commission's mission is to "Protect and restore marine waters, species and habitats of the Northwest Straits to achieve ecosystem health and sustainable resource use through a citizen based approach." Dan states that the Commission believes it is important to focus on a way to evaluate ecosystem health in order to understand if we are meeting the mission. The NEI model that has been developed by the Commission is $NEI = \text{change in function} \times \text{area} \times \text{probability}$. Any NEI assessment requires an action, such as restoration effort, outreach and education, or policy change. NEI is a quantitative ecological assessment, the first step in this process is evaluating various characteristics of restoration and monitoring projects. These characteristics include: data quality, pre- and post-restoration monitoring, geographic scope, volunteer involvement, continuity among other MRC efforts.

Dan is in the initial phases of seeing what the different MRCs are doing in the Salish Sea, and which projects may be good for NEI. He is looking for volunteer-driven that may also be good candidates for inclusion in the NEI framework. Dan opened up the discussion for ideas with the hope to find one or two Snohomish MRC projects that would work well in the NEI framework.

Elisa started the discussion by asking Dan what other suitable projects he has found from other MRCs are so far. Dan responded that one project he is pursuing with NEI is the no-anchor eelgrass zone in Jefferson County. Another project Dan is working on is with the San Juan MRC. The San Juan MRC is working on protections for Orca Whales from tourism and recreational boating. The actions that the San Juan MRC are considering will be based in NEI framework. Kathleen suggested that one project which could work for NEI would be the derelict crab pot removal study in Port Gardner Bay. The MRC has supported derelict gear removals in an area of Port Gardner that is a common fishing area for commercial, Tribal, and recreational crabbing. Gear removals involve locating derelict gear with side scan sonar and using trained divers to safely remove the gear. Removals have taken place in 2004, 2005, 2008, 2009, and 2011-2018. Paired with this, the MRC has participated in Crabber Education for many years. The MRC has been on the docks during crabber opening weekend for the past several years handing out materials on best management practices for securing and keeping crab pots so they do not become lost. Dan and the MRC thought this would be a good candidate for the NEI project. Dan will be gone during the month of June, but he will work with the MRC to bring this project into the NEI framework. The next step will be to create conceptual model that show the connections between recovery/protection efforts and various ecosystem services.

MRC Grant Discussion

Kathleen stated that the 2018-2019 MRC Grant Application is due May 22, and the goal of this agenda item is to review the draft grant application, and finalize edits needed for completion. For the 2018-2019 grant, the MRC has decided to focus on creating public service announcements (PSA) in Snohomish County Theaters. The grant does not define the theme of the PSAs, instead that will be decided as part of the grant. Franchesca Perez has researched National CineMedia (NCM), which is the primary creator of movie theater commercials and PSAs. Franchesca has received an estimate of

costs for 15-60 second PSAs to be shown in Snohomish County. Kathleen passed around copies of the draft grant for the MRC to review.

Elisa asked Franchesca if she knew of examples of other PSAs NCM has created. Franchesca said that she had not seen examples, but will ask NCM if they are able to provide us some. Elisa asked Franchesca if she knew whether or not the MRC would be able to use the PSA in venues other than NCM partner theaters if NCM creates the PSA. Essentially, will the MRC own the PSA NCM creates? Franchesca responded that she was not sure, and she would follow up with NCM on both of these questions and get back to the MRC.

Kathleen reported that the draft grant still needed a few edits along with creating a deliverables table. Franchesca offered to help create the deliverables table. Kathleen asked for any edits to the grant to be completed by Monday, May 21st.

Kathleen reminded the MRC of the requirements of grant projects. The project must:

- Be able to be accomplished in the time period available (end date September 30, 2019) and within the proposed budget (unless other funding is referenced in application).
- Include an evaluation plan that provides information to the MRC to determine whether the project achieved desired outcomes.
- Not be included in other grant proposals submitted or planned to be submitted through another entity (including through the Northwest Straits Foundation or to the Foundation's Opportunity Fund).
- Identify any sub-awards anticipated. Sub-award agreements with the Northwest Straits Foundation are not allowable.
- If a continuing project, clearly identify how this work is different from previous years, or describe why continuation of the same work is important.
- Be reviewed and approved at a meeting of the full MRC.

The MRC agreed that this proposal met the requirements of the grant. The MRC approved the proposal knowing that a few additions will be made before the Grant is submitted by May 22nd. Next, the MRC will need to present their proposal to the Northwest Straits Commission at the June 29th meeting in Island County.

Current MRC Grant

Kathleen reminded the MRC that the objective of the current MRC grant is to reach at least 300 youth through the school system. The MRC is working with Florian Graner to adapt Discover the Olympic Coast for Snohomish County. The new film will be called Discover the Salish Sea, and will include images specific to Snohomish County. Team members created a list of K-5 teachers in Snohomish County schools, and sent an email to the list seeking interest in the free film and curriculum. Kathleen reported that the email was sent to over 110 teachers, and she has already received close to 60 responses. The MRC is happy to see that there is so much interest from Snohomish County schools.

Florian is working to complete the Discover the Salish Sea film. The deadline for completion is May 25th. DVDs will be created and sent out to teachers with the curriculum by the end of May. Staff will follow up with a survey to see approximately how many students were able to view the film.

Forage Fish Data Analysis Update

Elisa passed around copies of a draft scope of work to request services from NRC, which is under contract with Snohomish County to provide forage fish surveying and analysis support to the County. The purpose of the analysis and report is to examine the interrelationships between beach sediment grain size and forage fish egg presence both before and after the Snohomish County Nearshore Restoration Project. The County had been collecting grain size and egg presence/absence data at 13 different sample locations. Surveys were taken once per month from approximately August-February at each site since 2011. The report will analyze this data for each individual site, and give a summary of the general findings of the analysis as a whole. Development of the report will be informed by previous reports and guidance created by the Snohomish County Marine Resources Committee and partners. Laura mentioned that she had a few edits to the document. Elisa asked for edits to be given to her by Monday, May 21st. Once the document is complete, it will be sent to the consultant for review and to develop the cost estimate. The goal is to have this analysis complete in October 2018.

Elisa reported to the MRC that there will be a forage fish training with Washington Department of Fish and Wildlife on June 1st. The training will be held at the Padilla Bay National Estuarine Research Reserve. This training will qualify volunteers to perform beach surveys for forage fish eggs as part of the Northwest Straits Initiative Forage Fish Index Site Project.. Elisa asked MRC members who would like to attend to please email her before the end of the week.

Elisa reported that the University of Washington (UW) Estuary and Salmon Restoration Program grant team in partnership with the MRC will be doing sampling in early June. This is a yearly week of field work that the MRC has committed to helping with. SWM staff Elisa Dawson and Luke Hanna will be sampling on June 4, 5, 11, and 12. Traci Sanderson has offered to volunteer for Sunday, June 10th. Elisa shared the schedule for monitoring and asked any MRC members who are interested in volunteering to please email her by May 30th.

UW Estuary and Salmon Restoration Program grant field work schedule:

Day	Sites	Boat or Car?	Rendezvous site/time	MLW (2.8') start/stop <i>good to be on site before MLW if we can</i>	Dead low	Estimated finish time (excluding sieving)
Mon June 4	By foot Howarth (only)	Car	1230, lower Howarth lot?	13:00/17:40	15:30, +0.3'	5 pm?
Tues June 5	Site 6 (DA) only	GHOST SHRIMP Boat	Boat at 10 th street at 1:30PM	14:15/18:00	16:10, +1.1'	6 pm?
Sunday June 10	By foot (Shipwreck and Picnic Point)	Car	Shipwreck property 0630	07:00/11:30	09:05, +.49 ,	~noon
Monday June 11	Sites 2 (ghost shrimp!) and 9 (GW)	#2 by Car, then #9 by boat?	Access site 2 by car, 0645?	07:20/12:20	10:10 -.84'	~1 pm
Tuesday June 12	Deer Creek and Meadowdale	Boat	Edmonds 7:00AM	07:40/ 13:15	10:30 -2.0'	~2 pm

Boeing Grant Opportunity with the Northwest Straits Foundation

The Northwest Straits Foundation is applying for a grant with Boeing and they are interested in projects that could be accomplished in Snohomish County. To that end, the MRC decided to put forth the idea of additional work at Howarth Park to upgrade and replace the culvert and enhance water quality treatment at the park. Anchor QEA completed a scope of work which summarizes tasks, deliverables, and costs to evaluate the feasibility of replacing the culvert for Pigeon Creek #1 under the BNSF railroad at Howarth Park in Everett with a larger box culvert or small span bridge and restoration of the lower creek and adjacent floodplain.

The primary goals for culvert replacement and stream restoration at Pigeon Creek #1 include:

- Restore natural confluence of Pigeon Creek #1 with Puget Sound and restore tidal processes at the mouth of the creek
- Restore natural transition of salt marsh habitat to freshwater marsh and riparian habitat along the lower reach of Pigeon Creek #1
- Provide a pathway for natural sediment transport from the creek to the nearshore
- Improve water quality within the lower reach of Pigeon Creek #1, and subsequently the nearshore area at Howarth Park, through creek restoration, on-site storage, vegetated buffers, and other LID stormwater improvements.

The scope of work is divided into two phases. The first phase includes a feasibility study of both the culvert and creek restoration. Because both the culvert and creek restoration are physically and biologically linked together, it would be difficult to look at feasibility of one without the other. A Phase 2 option includes additional data collection or other work required to reduce risk associated with the constraints that would be identified as part of the Feasibility Study.

Kathleen asked the MRC to review the scope of work. This draft scope of work was passed on to the Northwest Straits Foundation as they continue to work with Boeing on the grant opportunity.

Announcements

- **NWSC Update (Kathleen):** Kathleen will be traveling to Washington DC for the 2018 Puget Sound Day on the Hill, May 22-24th. Kathleen will be attending with the Northwest Straits Commission Staff to represent the Snohomish MRC, the Northwest Straits Initiative in general, and Snohomish County Surface Water Management.
- **LIO (Elisa):** Elisa reported the MRC submitted two Near Term Action (NTAs) to the Puget Sound Partnership on March 29th. NTA 2018-0584 Snohomish Estuary Derelict Vessel Removal was submitted for a project to remove function-limiting derelict vessels from prioritized sites in the Snohomish River estuary to protect and restore critical habitat for salmon population. This NTA builds upon the current derelict vessel removal project in progress with funds received from the 2016 round of NTA funding. NTA 2018-0589 Snohomish Estuary Creosote Piling Removal Planning, Prioritization, and Removal was submitted for a project to remove function-limiting creosote pilings from prioritized sites in the Snohomish River estuary to protect and restore critical habitat for salmon populations. This NTA includes a planning phase and a demonstration project to remove creosote pilings. The NTAs were reviewed by the Snohomish-Stillaguamish Local Integrating Organization. Both MRC NTAs received a Tier 4 (the highest tier) review. This score accounts for 20% of each NTAs final score. Next, the NTAs will be reviewed by the region. This review will account for 80% of each NTAs final score.

- **Our Toxic Orcas Event June 7 (Kathleen):** Sarah has agreed to speak briefly about the MyCoast app at the June 7 event “Our Toxic Orcas” at Bluewater Distilling in Everett. The event is part of Orca Awareness Month and is being hosted by the Washington Environmental Council and the Ocean Research College Academy.
- **Port Susan Shoreline Outreach (Debbie):** Debbie passed around drafts of a postcard mailer which was developed by Northwest Straits Foundation staff to be sent to Port Susan Shoreline Residents. The mailer encourages shoreline landowners to take part in a free shoreline assessment site visit. Debbie asked for edits to be sent to her, Elisa and Kathleen by May 30th.
- **Derelict Vessels Project (Kathleen):** Kathleen continues to work with Snohomish County Staff to finalize the contract and post derelict boats slated for removal. Staff hope to post boats for removal in early summer. The boats must be posted for 60 days before removal can begin.
- **Kelp Summer 2018 Planning (Tom):** Tom reported that he and Elisa attended a Kelp Webinar hosted by the Northwest Straits Initiative on May 15th. The objectives of the Webinar were to present trends in MRC collected Puget Sound kelp abundance over time, to present the variation in kelp survey data and discuss ways to minimize it in future surveys, and to discuss kelp monitoring plans for 2018. Tom reported that there is great interest in the MRC kelp monitoring data by the NWSC and other state agencies. Nearly all MRCs have participated for at least two years, and some interesting trends are developing. The two major sources of variation in kelp monitoring data are variations in bed size and observer constraints. These constraints can be due to tide height differences at the times of measurement, variable interpretation of diffuse bed boundaries, obscuring of kelp by surface water turbulence, inability to predict the date of maximum bed extent and kayak operator skill level. At least two determinations of bed extent should be made at the same tidal height on the same day and in calm seas. All data should be taken within one hour of a zero tide, but preferably at tides of - 1.0 foot or lower. The date of maximum bed size within the summer growing season appears to vary with location. Areas with greater water mixing and lower temperatures reach maximum bed size somewhat later, in August to September. Conversely, more southerly areas with lower mixing (such as Snohomish Co.) reached maximum size in July to August. Year-over-year declines in kelp bed sizes are possibly correlated with water temperature. Greater declines in bed sizes seem to occur when water is at or above 17°C. There is great interest by GIS specialists to conduct additional and more in-depth spatial analyses as more years of kelp monitoring data become available. Tom is working to select the days for summer 2018 Kelp Monitoring. Tom will follow up with MRC staff, Traci Sanderson, and Lincoln Loehr to plan dates for monitoring.

The meeting adjourned at 8:38 pm.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

June 20, 2018 6:30-8:30PM
3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor

<p>MRC Members Present Bob Hillmann Traci Sanderson Tom Doerge Laura Gurley Deborah Hopkins Franchesca Perez Cathy Stanley Paul Clampitt</p> <p>Absent Mike Ehlebracht (excused) Susan Tarpley (excused) Sarah Brown (excused) Craig Wollam (unexcused)</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff</p> <p>Gregg Farris, Snohomish County Surface Water Management Director Kari Quaas, Snohomish Conservation District Stephan Clauss, citizen</p>
<p>Summary of Decisions</p> <p>The MRC approved the May MRC Meeting Summary.</p>	
<p>Upcoming Events</p> <ul style="list-style-type: none"> ● June 28 10:15 a.m. Northshore Senior Center Marine Debris Talk, Susan Tarpley will present ● June 29 MRC Presentation on 2018-2019 grant at NWSC meeting in Island County ● Crabber Education Days June 30, July 1, and July 7 ● MRC Special Meeting July 9 ● July Kelp Monitoring July 11-13 ● Next MRC Meeting July 18 ● August 27th- SnoCo Boards and Commissions Thank you at the Evergreen Fair 	

Welcome and Introductions

Co-Chair Bob Hillmann opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Bob introduced himself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Tom Doerge made a motion to approve the May 16, 2017 MRC Meeting Summary. Franchesca Perez seconded the motion. All were in favor and the motion passed.

SWM Budget Status 2018-2019

Kathleen introduced Gregg Farris, Snohomish County Surface Water Management Director (SWM). Gregg has met many of the MRC Members before, and reintroduced himself. Gregg has been working for Snohomish County SWM for 19 years, he has served as an interim SWM Director twice, and recently was appointed SWM Director.

Gregg reported that SWM has been working on a Business Plan over the last year. The purpose of the Business Plan for SWM was to look at services and funding with feedback from citizens. SWM is funded through Surface Water Utility Fees which are charged to each parcel in unincorporated Snohomish County. The fees are collected to finance Surface Water Utility programs, like the MRC. Gregg reported that SWM fees have not changed in the last 10 years, and therefore have not kept up with inflation. Gregg showed a chart of other surface water fees which are charged in other jurisdictions throughout the Puget Sound, and Snohomish County has one of the lowest fees.

While SWM fees have not gone up in 10 years, costs and demands for SWM's work is increasing. Gregg reported that some of the major financial costs for SWM include, retirement funds requirements, new NPDES requirements, additional stormwater facilities throughout Snohomish County, the need to address fish passage culverts and failing draining pipes and other old infrastructure.

Due to these increased costs and general inflation, the current SWM fees are not able to keep up with current need. Gregg reported that actions need to be taken to address the SWM budget. Actions that are being taken by SWM include a hiring freeze, applying for grants and other revenue sources, postponing several capital projects, and cuts to 2018 and 2019 budgets. SWM will ask Snohomish County Council for a Surface Water Fee rate increase.

Gregg has been working with Snohomish County Council throughout the SWM Business Planning Process. In June, Gregg presented the most recent information as well as rate increase alternatives at the Council's Public Works Committee. County Council has not yet scheduled a date to hold a hearing for the SWM rate increase. Until further information is known on funding, SWM programs, including the MRC, will have budget cuts for 2018 and 2019.

MRC Program budget cuts are \$20,000 for 2018 and an additional \$46,000 cut for 2019, totaling a \$66,000 cut. This cut will not affect staff salaries, but are cuts to project funding.

MRC Grant Discussion

Kathleen stated that the 2018-2019 MRC Grant Presentation will be at the June 29th Northwest Straits Commission Meeting in Island County. Sarah will be presenting for the MRC. Kathleen and Paul will also attend the meeting. Franny asked the group if there was another volunteer who would be willing to serve as the project lead. Interested parties should talk to Franny or one of the MRC Staff.

Howarth Park Topography Discussion

- Bob Hillmann passed out some draft drawings of elevations of the Howarth Park Beach. Due to time constraints, this item was tabled for a future meeting.

Kelp Project Update

- Tom Doerge gave a brief update on the kelp project. The Kelp Committee with the Northwest Straits is in full swing and he attended the recent workshop on May 9, 2018. There is great

interest in the MRC kelp monitoring data at NWSC and other state agencies. All or nearly all MRC counties have participated for at least two years, and some interesting trends are developing. The two major sources of variation in kelp monitoring data are true variation in bed size and observer constraints. These constraints can be due to tide height differences at the times of measurement, variable interpretation of diffuse bed boundaries, obscuring of kelp by surface water turbulence, inability to predict the date of maximum bed extent and kayak operator skill level. The date of maximum bed size within the summer growing season appears to vary with location. Areas with greater water mixing and lower temperatures reach maximum bed size somewhat later, in August to September. Conversely, more southerly areas with lower mixing (such as Snohomish Co.) reached maximum size in July to August. Year-over-year declines in kelp bed sizes are possibly correlated with water temperature. Greater declines in bed sizes seem to occur when water is at or above 17°C. There is great interest by NWSC GIS specialists to conduct additional and more in-depth spatial analyses as more years of kelp monitoring data become available. Initial kayak surveys are scheduled for early July for Snohomish County kelp beds.

Announcements

- **NWSC Update (Paul):** Paul has a meeting with Nan McKay and Jerry Masters on June 26th and will bring up the budget cuts to the Snohomish MRC at that time. Additionally, Paul has volunteered to serve as chair of the Northwest Straits Commission.
- **LIO:** This update was skipped due to time constraints.
- **MRC Conference 2018 (Kathleen):** Kathleen reminded the MRC that the 2018 conference will be in Port Townsend this year, and will be held at Fort Warden. Cathy said that the Tulalip Tribes will be the main sponsor of the conference this year
- **Port Susan Shoreline Outreach (Debbie):** Debbie thanked the MRC for their comments on the Port Susan mailer. The final mailer has been approved and will be going out to shoreline residents shortly.
- **Derelict Vessels Project (Kathleen):** Kathleen gave an update on the Derelict Boats project. Snohomish County Council approved the Department of Environmental Services Work Order and the boats are will be removed later this summer. Specific dates and details will follow once a contractor is selected.
- **Kelp Summer 2018 Planning (Tom):** Tom reported that kelp monitoring for 2018 will occur in July and August. The team may also potentially survey in September depending on capacity. The July survey dates are July 11-13th.

The meeting adjourned at 9:00PM.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

July 18, 2018 6:30-8:30PM

**3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor**

<p>MRC Members Present Sarah Brown Bob Hillmann Mike Ehlebracht Franchesca Perez Tom Doerge Laura Gurley Deborah Hopkins Cathy Stanley Susan Tarpley Craig Wollam Paul Clampitt</p> <p>Absent Traci Sanderson</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff Elisa Dawson, MRC Staff</p> <p>Karen Stewart, City of Everett Kari Quaas, Snohomish Conservation District Megan Ehlebracht, Citizen David Bain, Citizen</p>
<p>Summary of Decisions</p> <p>The MRC approved the June MRC Meeting Summary.</p> <p>The MRC voted to oppose the water quality amendment offered by Mrs. McMorris Rodgers of Washington to the Appropriations Bill for the Department of the Interior</p>	
<p>Upcoming Events</p> <ul style="list-style-type: none"> ● August Kelp Monitoring August 8th-10th ● MRC Summer Picnic August 15th ● MRC Forage Fish sampling August 22nd ● August 27th 6PM-8PM Snohomish County Boards and Commissions Thank You Event at the Evergreen Fair 	

Welcome and Introductions

Chair Sarah Brown opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Sarah introduced herself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Tom Doerge made a motion to approve the June 20, 2017 MRC Meeting Summary. Mike Ehlebracht seconded the motion. All were in favor and the motion passed.

City of Everett Community Open House on Shorelines

Kathleen introduced Karen Stewart, Environmental Planner for the City of Everett. Karen shared several documents with the MRC regarding the Shoreline Master Program periodic review. The City is undertaking a periodic review of its Shoreline Master Program (SMP), as required by the Washington State Shoreline Management Act (SMA). The SMA requires each SMP be reviewed and revised, if needed, on an eight-year schedule established by the State Legislature. The review ensures the SMP stays current with changes in laws and rules, remains consistent with other City of Everett plans and regulations, and is responsive to changed circumstances, new information, and improved data.

Karen shared that the City of Everett has appointed a Shoreline Advisory Committee for this review. The Shoreline Advisory Committee is comprised of community representatives, stakeholders, groups, interested citizens and agency representatives to oversee community outreach and involvement for the update of the City's Shoreline Master Program. The Shoreline Advisory Committee provides a forum for further public outreach, identifies issues to address and proposes revisions to the Shoreline Master Program and the Shoreline Public Access Plan. Several MRC members, including Sarah Brown, Bob Hillmann, and Laura Gurley are serving on this committee.

The periodic review requires that the plan be updated as needed to comply with legislative and rule changes, assure consistency and local plans and development regulations, and reflect changed circumstances, new information, and improved data. The Shoreline Advisory Committee is helping City of Everett Staff identify parts of the plan that need to be updated. Karen explained that because Everett is seeking feedback from the public for the Shoreline Master Program, they decided to also use the opportunity to seek feedback on their Shoreline Access Plan. The Shoreline Access Plan was created in 2002. The focus of the plan was on access to shoreline as well as long distance trails and connections along the shoreline.

The Shoreline Advisory Committee met several times throughout spring 2018 to discuss the Shoreline Master Program and Shoreline Access Plan. The City of Everett also hosted an open house on June 20th to receive feedback from the public on the Shoreline Master Program and Shoreline Access Plan. At the open house, the City of Everett has handed out surveys. Everett is currently working on reviewing the feedback and updating the Shoreline Master Program and Shoreline Access Plan. In October, the Shoreline Advisory Committee will meet to review the preliminary draft of the Shoreline Master Program. The Shoreline Advisory Committee will complete their work and draft a letter of recommendation to the Everett Planning Commission in December.

Karen opened up the conversation to questions. Kathleen asked if the restoration project at Howarth Park had been added to the Shoreline Access Plan. Karen noted that that project does need to be added to the update, and will ensure it gets added. Several MRC members asked questions about access to the Snohomish River Shoreline. Karen responded that many people are interested in increased access to the shoreline along the eastern Everett boundary. Long term plans have looked at creating a connecting trail between Rotary Park and into Snohomish to connect with the Centennial Trail. Karen responded that these trail plans will continue to be a part of the updated Shoreline Access Plan. Karen thanked the MRC for their time, and said to please reach out to her with any questions.

Howarth Park Topography Report

Bob reported that he and Craig were able to use the City of Everett Real-time kinematic (RTK) unit for a survey of elevations at Howarth Park. Craig and Bob worked together to complete the survey on May 30th, 2018. Through this survey, Craig and Bob were able to gather information that allowed them to draft drawings of elevations of the Howarth Park Beach. This could then be compared to a pre-restoration survey which was done in 2016, as well as the as-built survey data. Using the three different surveys over time, Bob and Craig were able to compare how the sediment has moved over time at Howarth Park.

Bob reported that using the pre-survey and as-built records, he estimated that approximately 6433 cubic yards of sediment were nourished on the beach at Howarth Park in 2016. Comparing the as-built to the post survey Craig and Bob completed in May, they found that approximately 3000 cubic yards of sediment remain on the beach. Bob reported that this means 54% of the sediment have moved off the beach between July 2016 and May 30, 2018.

Bob noted that there is a depression in the beach on the northeastern side. He noted that he was not sure exactly why this was, but hypothesized that it may have something to do with the culvert. Additionally, Bob noted that from this analysis he believes there is sand coming in from other nourishment sites which are being delivered to the southern edge of the Howarth Park beach. Bob and Craig noted that nearly all of “choice” gravel has washed off the beach, and much of the sand on the point has also washed away. Areal imagery was shown to graphically show these changes.

Bob and Craig plan to continue to survey approximately every 6 months using the City of Everett’s RTK unit to help assist in the analysis of the nourishment project.

Water Quality Rule Comment

Kathleen reported that the MRC is being asked by Congressman Rick Larsen’s staff if the MRC had any comments to provide to Executive Somers on the water quality amendment offered by Mrs. McMorris Rodgers of Washington to the Appropriations Bill for the Department of the Interior (Amendment to Division A of Rules Committee Print 115-81).

Kathleen presented the information available to the MRC. Kathleen reported that the Washington Department of Ecology has reported that they are opposed to the Amendment. Ecology is opposed the Amendment for the following reasons:

- The amendment would erode the working relationship between the State Department of Ecology and EPA while leaving the state on the hook for meeting water quality standard under the Clean Water Act. Ecology is relying on EPA’s partnership to help provide variance (exemptions that delay implementation of the new standard) that are expected to be sought in the Spokane by some of the dischargers.
- It would also hit the state financially since Ecology would not be able to use federal PPG money to implement standards (new permits, variance, toxic reduction efforts in Spokane), while still being obligated to meet CWA standards.
- Lastly, there is concern about how this would affect EPA’s work on toxics permits in Idaho if EPA will not be able to spend resources addressing downstream water quality

standards in Washington, which are currently tighter. When Idaho begins issuing permits, EPA will need to serve as a mediator under the CWA to make sure the Idaho permits meet our water quality standards. This broad act will prevent them from playing this role.

The MRC discussed the available information. Members recognized that there was not enough time for a thorough review of all the information available, but acknowledged that the Amendment would mean a delay implementation of EPA standards.

After discussion and review Sarah Brown proposed a motion to support Washington Department of Ecology's decision to oppose the Amendment. The 11 MRC members present voted on a recommendation to the County regarding the amendment. Eight members representing a quorum supported the Department of Ecology's recommendation to oppose the amendment, and three members abstained from the vote due to lack of information or conflict of interest. None were opposed and the motion passed. The MRC noted that they are commenting only on the Amendment to the appropriations bill, and not the original water quality rules due to lack of time to review the original rule.

MRC Budget Meetings/Talking Points

Chair Sarah Brown announced that she has been talking to Executive Dave Somers office and the Executive plans to attend the MRC Picnic on August 15th. The picnic will be from 5:30-7:30PM at the Mukilteo Rose Hill Community Center 304 Lincoln Ave, Mukilteo, WA 98275.

The MRC discussed talking points for the meeting with Executive Somers. The MRC has created several discussion topics to speak to Executive Somers about as Snohomish County Surface water management and the Marine Resources Program face cuts to the 2018 and 2019 budget. Draft talking points included:

- 1) MRC Volunteers Provided 1,545 professional volunteer hours in 2017
 - a. Value of hours according to WA volunteer hour value of \$28.99=\$45,000/year
 - b. Value of hours according to MRC members average billing rates=\$123,600/year
 - c. Equivalent to almost a full FTE staff for 1 year (1,800 hours)
- 2) MRC Projects Produce Tangible Results
 - a. Nearshore Restoration project met 80% of Nearshore Restoration goal of Snohomish Basin Salmon Recovery Plan
 - b. Meadowdale Beach Restoration will keep park open to 65,000 beach visitors/year and allow fish passage in Lund's Gulch
 - c. MRC Projects like Mussel Watch and MyCoast have been so successful they have been taken over by State and Federal agencies and continued without need for local funding

Kathleen reported that she is working on collecting numbers of citizens who have attended or been reached through MRC events. Kathleen passed around a draft list of events and asked MRC members to please add any additional events where they have made contact with residents. The MRC will use this information in their discussion with Executive Somers.

Sarah reminded the MRC that after they meet with Executive Somers, MRC members should meet with County Council members. The MRC reviewed the council districts and made subgroups between members who live in corresponding districts.

Announcements

- **NWSC Update (Paul):** Paul reported that the Snohomish MRC and other MRC's gave their 2018-2019 grant presentations at the last NWSC meeting. Sarah Brown presented the Snohomish MRCs outreach grant for the MyCoast app.
- **LIO (Elisa):** Elisa noted that we are still waiting to hear back on final scores from the Puget Sound Partnership.
- **MRC Conference 2018 (Kathleen):** Kathleen reminded the MRC that the 2018 conference will be in Port Townsend this year, and will be held at Fort Warden on November 16-17. Cathy noted that the Tulalip Tribes will be the main sponsor of the conference this year.
- **Port Susan Shoreline Outreach (Debbie):** Debbie thanked the MRC for their comments on the Port Susan mailer. The final mailer has been sent to shoreline residents.
- **SnoCo Boards and Commissions Thank you at the Evergreen Fair (Kathleen):** Kathleen reported that invitations to this year's event will be sent to the MRC members shortly.
- **Crabber Education (Bob):** Bob reported that crabber education this year went very well. Numbers on packets handed out are estimated to be around 1800 people reached between Everett 10th street boat launch, Kayak Point County Park, and the City of Edmonds Pier.
- **Derelict Vessels Project (Kathleen):** Kathleen reported that the derelict vessels should be posted later this month and the county is working on selecting a contractor for removal.
- **Kelp Summer 2018 Planning (Tom):** Tom reported that bull kelp monitoring occurred July 11-13th. Tom and Elisa completed the first day at Mukilteo. Very little kelp was found in Mukilteo, the team made several GPS waypoints where several kelp bulbs were seen in the location of historic kelp beds. One kelp bed existed with approximately a dozen bulbs. The second day of monitoring took place at Edmonds. Tom and Elisa were joined by Robyn Rice who filmed much of the monitoring with her drone. Some initial photos have been shared from Robyn and they look great. The kelp beds in Edmonds were relatively healthy and seemed relatively similar in size to those seen in 2017. All 3 kelp beds were surveyed. The final day was at Meadowdale Beach Park. Tom and Elisa were joined by Snohomish County Ranger Doug Dailer. The team did not find any kelp beds at Meadowdale. One small group of approximately 5 kelp bulbs were found, and a waypoint was marked. Monitoring will occur in August and is scheduled for August 8-10. Elisa, Traci, and Lincoln will complete these surveys.

- **Forage Fish (Elisa):** Elisa reported that forage fish monitoring starts in August for the 2018-2019 monitoring season. Elisa passed out a sign-up sheet for volunteers for August and September. Elisa and Kathleen completed a scope of work for NRC to complete an analysis for forage fish analysis of egg and sediment data. NRC will begin work in August, and plans to complete the work by the end of October. NRC consultant Jamey Selleck plans to attend the MRC October meeting to present drafts of his work up to the MRC.

The meeting adjourned at 8:35PM.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

September 19, 2018 6:30-8:30PM
3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor

<p>MRC Members Present Sarah Brown Bob Hillmann Mike Ehlebracht Tom Doerge Laura Gurley Susan Tarpley Paul Clampitt</p> <p>Absent Deborah Hopkins Traci Sanderson Cathy Stanley Craig Wollam Franchesca Perez</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff Elisa Dawson, MRC Staff</p> <p>Gregg Farris, Snohomish County Surface Water Management Lucas Hart, Northwest Straits Commission David Bain, Citizen, ORCA Conservancy Kari Quaas, Snohomish Conservation District Sarah Brown, Citizen</p>
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Summary of Decisions

The MRC approved the July MRC Meeting Summary.

- Upcoming Events**
- Snohomish County RainScaping Expo September 29th at McCollum Park
 - Highlights of the Port Susan Marine Stewardship Area Talk by Kathleen Pozarycki. October 1 at the Cama Beach Great Hall
 - MRC Forage Fish sampling October 9
 - Shoreline Real Estate: Understanding Beach Bluff Properties. October 10th at the Fidalgo Bay Convention Center
 - Shoreline Real Estate: Understanding Beach Bluff Properties. October 11th at the Four Springs Lake Preserve
 - Vegetation Management for Shoreline Landowners. October 17th at the Four Spring Lake Preserve
 - MRC Annual Retreat November 7th at Snohomish County Offices
 - MRC Conference November 16 and 17 in Port Townsend

Welcome and Introductions
Chair Sarah Brown opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Sarah introduced herself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Mike Ehlebracht made a motion to approve the July 18, 2018 MRC Meeting Summary. Tom Doerge seconded the motion. All were in favor and the motion passed.

MRC Budget Update- Gregg Farris

Snohomish County Surface Water Management (SWM) Director Gregg Farris introduced himself and thanked the MRC for their time. Gregg attended the MRC meeting in June 2018 to discuss the budget cuts that were proposed for the MRC for 2018 and 2019. At the time, the MRC budget cut for 2018 was \$30,000, and the budget cut for 2019 was \$46,000. Gregg announced that Snohomish County Executive, Dave Somers, has directed SWM to restore the funding cuts for the MRC in full for 2018 and restore \$30,000 of the \$46,000 cut for 2019. Gregg thanked the MRC for their work and indicated that the Executive had heard from members about the impact of these cuts and he wanted to reinstate the funds. Executive Dave Somers will be recommending this budget to the Snohomish County Council. The Snohomish County Council must approve the budget before it is final.

Next, Gregg discussed the current SWM budget. Gregg stated that there is still a need for a rate increase. Although the MRC budget has been restored through 2019, 2020 funding is still uncertain with the current state of the SWM budget. SWM will be asking for a rate increase via ordinance from Snohomish County Council, likely this fall. The rate increase would create a uniform rate across the entire county eliminating the urban growth area (UGA) surcharge.

Laura asked if the council could still change this decision. Gregg responded that, while unlikely, the Council could still change the 2019 budget. Gregg encouraged the MRC members to continue to share their voice with Executive and the County Councilmembers.

Northwest Straits Strategic Plan Presentation- Lucas Hart

Lucas Hart, Director of the Northwest Straits Commission, introduced himself to the MRC and thanked them for having him there to present on the Northwest Straits Strategic Plan. Lucas reported that in 2017 the Northwest Straits Initiative (NWSI) strategic plan timeframe expired. The NWSI began a new process to update the Strategic Plan in March 2018. The 2018 NWSI retreat, which consisted of the Commission Board, Foundation Board and Commission and Foundation staff, resulted in a list of actions and strategies that the group agreed would be valuable areas for the Initiative to focus on as we look to the future. The strategic planning committee (Lucas Hart, Caroline Gibson, Nan McKay, Anne Murphy and Elsa Schwartz) calls these actions “themes.” These are reflected in the text of the draft strategic plan (see attached). The objectives under each theme were also the result of discussions at the NWSI retreat. The planning committee created goals and results to accompany the themes and objectives. One exception to this rule is the “stewardship theme.” This theme resulted from MRC Staff input, who suggested including objectives that more directly guide MRC project development.

One of the original goals the group discussed with the updated strategic plan was to try to keep the report short and broad. Lucas said this was a priority because it allows for flexibility between MRCs, but still gives overall guidance. Through the Strategic Plan, the NWSI also hopes to be able to give MRCs a way to measure success on a particular project. Lucas reported that the committee is working to create a poster version of the Strategic Plan, and showed an example of the draft poster.

After discussing the background of the planning and updating process, Lucas led the MRC through the draft Strategic Plan. The group discussed the different themes of the Strategic Plan and gave their feedback. Several suggestions were made by the MRC. The MRC suggested adding estuary to “contribute to shoreline and nearshore habitat protection and restoration projects” The MRC thought language to include this area was important, but also discussed the need for more review of this language in order to find the proper wording. The MRC also suggested include specific monitoring metrics for much money MRCs are leveraging. MRC members pointed out that funders and elected officials are interested in these metrics, and that there should be a way to monitor metrics like this across MRCs. Lucas thanked the MRC for these suggestions, and told them he would bring them to the committee at their next meeting. After the discussion, Lucas encouraged the MRC members to contact him if any more questions arose.

October 1st Meeting with Executive Somers

Sarah Brown reported that the MRC has a meeting scheduled with Executive Somers on October 1st. In an effort to keep the meeting small, MRC members will attend by invite only. Sarah shared that her hope is that this is the first in a series of meetings in which MRC members can take turns attending. The topic of this first meeting with the Executive will be to discuss more in-depth how the MRC can be part of the Executive’s Puget Sound Initiative and provide a short list of ideas as to how to move the Initiative forward.

IGNITE Presentation for November MRC Conference- Kathleen/all

Kathleen announced that MRC Conference is quickly approaching. Registration has been sent out, and MRC members were asked to fill out the registration as soon as possible. MRCs are being asked to do an ignite presentation at the conference. Kathleen asked the MRC what topic they would like to do their presentation on.

MRC members asked if the MyCoast App is being featured already in the conference. Kathleen responded that she didn’t know if MyCoast was being featured in the conference, but that she would work with Sasha to see if it was being featured elsewhere. The MRC decided that if MyCoast was being featured elsewhere in the Conference Agenda, they should not focus their presentation on MyCoast. However, if MyCoast is not being featured at the conference, the MRC should focus their ignite presentation on MyCoast.

Another idea for the ignite presentation was to focus on how to talk to your public officials. Paul Clampitt mentioned that at the 2017 conference there was a session on how to talk to your public officials. The Snohomish MRC could give a follow up presentation on what they have learned since that training, and the work they’ve done to restore the MRC budget over the last year.

Kathleen will follow up with Sasha to see if MyCoast is being featured elsewhere in the conference. Once the MRC has that information they will decide their topic and a volunteer to give the presentation.

Kelp Update- Elisa/Tom

Tom reported that the Kelp Team completed the 2018 kelp monitoring in July and August 2018. Kelp data were collected at Meadowdale, Mukilteo, and Edmonds. Maps using the data were created by SWM GIS.

July Kelp monitoring occurred the 11-13th. Tom reported that the first day of monitoring was at Mukilteo, where only one bed of kelp was found of the previously documented six or more kelp beds. Edmonds was surveyed the second day, where all three beds were present and surveyed. The final day of kelp monitoring was at Meadowdale Beach Park where no kelp beds were found where three were previously documented. One waypoint was marked where approximately 5 kelp plants were found, but this was not enough plants to constitute a bed.

August Kelp monitoring occurred August 8-10. The first day of monitoring was at Mukilteo, where only one bed of kelp was found of the previously documented six or more kelp beds. Edmonds was surveyed the second day, where all three beds were present and surveyed. The final day of kelp monitoring was at Meadowdale Beach Park where no kelp beds were found where three were previously documented. The MRC reviewed the maps from this monitoring, as well as the comparison maps that were created to show change over time. Overall, the Snohomish County maps show a strong pattern of decline. Tom reported that the data from the Snohomish MRC was shared with the Northwest Straits Foundation, who is working to compile the data regionally. Tom reported that the next regional kelp workshop has not been scheduled, but the group plans to meet in the next few months to discuss the data from the different MRCs gathered in summer of 2018.

Announcements

- **NWSC Update (Paul):** Paul reported that the NWSC continues to work on budget planning for the future. The NWS Foundation received a \$50,000 grant from Boeing to focus on low-impact development and stormwater projects to improve marine waters.
- **LIO (Elisa):** Elisa reported that the final scores from the Puget Sound Partnership have come in, and both MRC NTAs have received the top score and were included in the action agenda. Next, the LIO will be working on finding funding for the NTAs.
- **MRC Conference 2018 (Kathleen):** Kathleen reminded the MRC that the 2018 conference will be in Port Townsend this year, and will be held at Fort Warden on November 16-17. MRC members should make sure they are registered for the conference.
- **Port Susan Shoreline Outreach (Kathleen):** Kathleen mentioned that she will be giving a talk on “Highlights of the Port Susan Marine Stewardship Area” on October 1st at Cama Beach. The Northwest Straits Foundation will be hosting a realtor workshop on October 11th for realtors in Port Susan to learn about shoreline properties. The Northwest Straits Foundation will also be hosting a vegetation workshop for shoreline landowners on October 17th.
- **SnoCo Boards and Commissions Thank you at the Evergreen Fair (Kathleen):** Kathleen reported that she, Elisa, Sarah, and Tom attended the event. At the event, Sarah was able to talk to the Executive and Councilmember Ryan regarding the MRC budget.
- **RainScaping Expo (Mike):** Mike announced that the MRC will be hosting a table at the Snohomish County RainScaping Expo at McCollum Park on September 29th. The event is from 12-4PM. Mike, Laura, and Tom have all volunteered to help out at the table.

- **MRC Retreat (Kathleen):** Kathleen announced that the MRC retreat will be November 7th. This meeting is in-place of the normal MRC meeting in November.
- **Derelict Vessels Project (Kathleen):** Kathleen reported that the derelict vessels have been posted and county is working on selecting a contractor for removal.
- **Forage Fish (Elisa):** Elisa reported that forage fish monitoring started in August for the 2018-2019 monitoring season. Elisa asked for volunteer for the October 9 sampling. Elisa and Kathleen continue to work with NRC on the forage fish analysis project. NRC consultant Jamey Selleck will be attending the MRC October meeting to present drafts of his analysis thus far to the MRC.

The meeting adjourned at 8:30PM.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

October 17, 2018 6:30-8:30PM
3000 Rockefeller Ave, Snohomish County Campus, Everett WA 98201
Admin East Building, 6th Floor

<p>MRC Members Present Sarah Brown Bob Hillmann Mike Ehlebracht Tom Doerge Laura Gurley Paul Clampitt Deborah Hopkins Traci Sanderson Cathy Stanley Franchesca Perez</p> <p>Absent Susan Tarpley Craig Wollam</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, MRC Lead Staff Elisa Dawson, MRC Staff</p> <p>Kari Quaas, Snohomish Conservation District Kyle Koch, Adopt-a-Stream Foundation</p>
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Summary of Decisions

The MRC approved the September MRC Meeting Summary.

- Upcoming Events**
- Vegetation Management for Shoreline Landowners. October 17th at the Four Spring Lake Preserve
 - Forage Fish sampling event November 5th
 - MRC Annual Retreat November 7th at Snohomish County Offices
 - MRC Conference November 16-17th in Port Townsend

Welcome and Introductions

Co-Chair Mike Ehlebracht opened the Marine Resources Committee (MRC) meeting with a quorum at 6:30pm.

Mike introduced himself and called for self-introduction of meeting participants.

Approval of MRC Meeting Summary

Laura Gurley made a motion to approve the September 19, 2018 MRC Meeting Summary. Tom Doerge seconded the motion. All were in favor and the motion passed.

IGNITE Presentation for November MRC Conference

Kathleen announced that MRC Conference is quickly approaching. Registration has been sent out, and MRC members were asked to fill out the registration as soon as possible. MRCs are being asked to do an IGNITE presentation at the conference. After the discussion at the last meeting, Kathleen followed up with Northwest Straits Commission (NWSC) staff to see if MyCoast would be featured anywhere else in the conference. NWSC staff has confirmed that the MyCoast app will not have any other presentation in the conference, so the MRC decided to focus their Snohomish County MRC Ignite presentation on the MyCoast app.

Franchesca Perez offered to give the presentation if no other MRC members were interested. Kathleen will follow up with MRC members not present to ensure there are no other interested presenters. Kathleen and Elisa will create a draft of the Ignite presentation, and send the draft to the presenter in early November.

MRC Budget Update and End of Year Projects

Kathleen reminded the MRC that at the last meeting Surface Water Management (SWM) Director Gregg Farris announced that Snohomish County Executive, Dave Somers, directed SWM to restore the funding cuts for the MRC in full for 2018 and restore \$30,000 of the \$46,000 cut for 2019. Since this announcement, she has been working with MRC members and partner organizations to find projects which can be completed before the end of 2018. All \$30,000 of restored 2018 funds must be used by the end of the calendar year. Kathleen reported that there have been many good ideas. One idea she worked on initially was to see about funding part of the Warm Beach Martha Creek Restoration Project which Tulalip Tribes Ecologist Brett Shattuck presented to the MRC back in June 2017. Kathleen said that after speaking with SWM management, SWM has decided to fund this project with other funds, and the MRC funds are not needed to move this project forward.

Another idea was the removal of additional boats under the same derelict boat removal contract that the MRC currently has. Kathleen reported that one boat has recently sunk in Deadman's Slough, and two other boats have washed up on the Everett Shoreline just north of Mukilteo. All of these boats have been reported in the MyCoast app. Kathleen is working with the Snohomish County purchasing department to add the removal of additional boats to the contract, funding dependent. She believes 2 boats will be able to be removed with the additional money reinstated to the MRC. The MRC agreed to support the additional derelict boat removal with the 2018 funds reinstated to the MRC.

Forage Fish Presentation by Jamey Selleck

Elisa introduced Jamey Selleck, a consultant with Natural Resource Consultants (NRC) who has been working on part of the forage fish analysis project. Jamey began his presentation explaining that the County has contracted him to complete an analysis and report of forage fish egg and sediment grain size for the Snohomish County Nearshore Restoration Project (Project) which was completed in July of 2016. The Project placed beach nourishment sediment along a 4.5 mile stretch of shoreline between Mukilteo and Everett and removed a bulkhead at Howarth Park. The purpose of the Project was to increase ecological function in the drift cell and improve forage fish spawning habitat and juvenile Chinook habitat.

Jamey reported that purpose of the analysis and report is to examine the interrelationships between beach sediment grain size and forage fish egg presence both before and after the Project

was completed. The County had been collecting grain size and egg presence/absence data at 13 different sample locations. Surveys were taken once per month from approximately August-February at each site since 2011. Jamey is still in the process of completing this work, which will be complete by the end of November 2018. Through this presentation he is hoping to hear the MRC feedback on comments on the analysis so far. The final report will provide an analysis of this data for each individual site and give a summary of the general findings of the analysis as a whole. Development of the final report will be informed by previous reports and guidance from the MRC and SWM partners.

Jamey also noted that this report is part of a larger analysis of the Project. The larger report includes an analysis of photo monitoring and GIS sediment tracking that has been completed for this project. SWM staff is working on this analysis, and the information he is working on completing will help inform this larger analysis. The analysis the Jamey is completing includes descriptive statistics and general trends as well as statistical review and general linear mixed model. Jamey showed the MRC figures of the descriptive statistics and general trends. In this analysis he looked at the percent of optimal grain size within the samples; this variable is important as forage fish prefer specific grain sizes in order to spawn. Additionally, Jamey looked at the distribution of eggs across sites, and found that surf smelt prefer more down drift sites, while sand lance spawning preference is more variable. The purpose of the general linear mixed model is to create a ranking for each species across samples. The GLM was analyzed against percent grain (representative for each species), site location, and years. Jamey reported that for surf smelt he found no significance for percent grain (p-value = 0.442) or year (p-value = 0.231), but did find significant differences between sites (p-value < 0.001, $R^2 = 0.387$). There is a clear surf smelt preference for the northeastern sites 12 and 13, regardless of available substrate. For sand lance, he found significance for percent grain (p-value = 0.013), year (p-value = 0.009), and site (p-value < 0.001). Overall there was greater variability between sites and year in spawning activity, and a considerably greater range of suitable substrate for spawning.

While the number of eggs found does not directly correlate to actual population abundance, the continued presence of eggs in samples demonstrates that the long-term surveys along the shoreline is effective at monitoring the spawning activity for both surf smelt and Pacific sand lance. Many of the sites chosen for this project exhibited spawning events prior to restoration or beach nourishment, but the area of suitable habitat was restricted to a small band in the intertidal zone. Jamey reported that his results are beginning to show that the addition of fine sand material broadened the slope of the beach and extended the total area along the shoreline, increased the potential habitat available for fish to deposit eggs, and improved habitat favorable for egg survival. The addition in 2016 of fine sediments preferred by sand lance between sites 2 through 12 may explain the pattern of ranked spawning seen in Figure 5, where eggs were most common at sites directly adjacent to beach nourishment. Site 6S in particular had little to no spawning activity prior to beach nourishment, but became among one of the more preferred sites for spawning after restoration in 2016 and 2017.

Jamey ended his presentation and opened up the discussion for questions and comments from the MRC. Bob asked Jamey if he knows if surf smelt sand lance leave their spawning grounds and move far off the beach? Jamey responded that surf smelt are quite mobile and move all over. Female surf smelt seem to move around a lot while males seem to hang around the same area waiting for females. Jamey said that sand lance mobility isn't as well known, but the information that is available tend to show that they do not go far from their spawning grounds, and instead stay nearby.

Franny noted that Jamey discussed that the forage fish move up at high tide and spawn. She reported that the MRC protocol had volunteers set 10 and 7 foot elevations at the beginning of each year, and we use that mark throughout the season to take our samples, instead of adjusting to each high tide using the most recent wrack line. She asked Jamey if he believes that this protocol missed eggs by not using the most recent wrack line. Jamey responded that he doesn't think that the protocol made a significant difference. Results of the sampling shows that eggs were captured with this protocol, and for analysis the presence of eggs is more important than the abundance of eggs.

Kathleen said that the overall goal of this analysis and the other analyses that SWM staff are doing is to address the question of future beach nourishment. of where should we put material, and what type of material is best? She is interested in finding out if all the project was successful, which sites provided increased habitat, what type of material is best, where could additional material be placed. Jamey reported that he is still working on conclusions for his report, and the egg presence and grain size data are only one part of being able to answer that question. Jamey indicated that preliminary results of the grain size analysis shows that the dredge material seems to be good for sand lance. Therefore, one of the general conclusions will be that it appears like it may be helpful to continue beach nourishment for sand lance habitat. Although, Jamey mentioned he is only analyzing through February 2017 at this time. It would be helpful to analyze the rest of the 2017-2018 season and 2018-2019 season. Elisa mentioned that we have samples for that time, but still need to do the grain size analysis. Elisa is hoping that the grain size analysis for those samples will be done in early 2019, and we could update this report in 2019 if the MRC wished.

Announcements

- **NWSC Update (Paul):** Paul reported that the NWSC continues to work on budget planning for the future. The NWS Foundation received a \$50,000 grant from Boeing to focus on low-impact development and stormwater projects to improve marine waters. Paul reported that the NWSC is interested in hearing how MRCs may want to work on preventing ocean plastics in future projects. Paul said this will be discussed at the retreat and asked MRC members to start thinking about project ideas. Laura mentioned that the Ocean Research College Academy located in Everett has done some work on plastics in our area, and suggested thinking about collaborating with them on a project.
- **LIO (Elisa):** Elisa reported that the next LIO meeting will be November 1, 2018.
- **MRC Conference 2018 (Kathleen):** Kathleen reminded the MRC that the 2018 conference will be in Port Townsend this year, and will be held at Fort Worden on November 16-17. MRC members should make sure they are registered for the conference. Elisa has organized lodging for our MRC members at Fort Worden.
- **Port Susan Shoreline Outreach (Kathleen):** Kathleen reported that she gave a talk on "Highlights of the Port Susan Marine Stewardship Area" on October 1st at Cama Beach to the Sound Water Stewards. The presentation focused on efforts to date in Port Susan and the MyCoast app. The Northwest Straits Foundation hosted a realtor workshop on October 11th for realtors in Port Susan to learn about shoreline properties. Elisa attended the event and said that about 10 realtors from the Port Susan area participated. Kathleen

reported that the Northwest Straits Foundation is hosting a vegetation workshop for shoreline landowners tonight, October 17th. Kathleen said that she plans to follow up with Lisa Kaufman later this week to hear about the results from this workshop.

- **RainScaping Expo (Mike):** Mike reported that the MRC hosted a table at the Snohomish County RainScaping Expo at McCollum Park on September 29th. The event was from 12-4PM. Mike, Laura, and Tom attended. Over 150 people attended. The MRC members reported that they got to speak to many people who were interested and engaged in low impact development practices.
- **MRC Retreat (Kathleen):** Kathleen announced that the MRC retreat will be November 7th. This meeting is in-place of the normal MRC meeting in November.
- **MRC Conference (Kathleen):** Kathleen announced that the MRC Conference will be November 16th and 17th in Port Townsend.
- **Derelict Vessels Project (Kathleen):** Kathleen reported that the derelict vessels have been posted and removal will start with the contractor in late October.
- **Forage Fish (Elisa):** Elisa reported that forage fish monitoring started in August for the 2018-2019 monitoring season. Elisa asked for volunteer for the Monday, November 5 sampling. Howarth Park volunteers will meet at Howarth at 9AM.

The meeting adjourned at 8:31PM.

Snohomish County Marine Resources Advisory Committee Meeting Meeting Summary

November 7, 2018 5:30-8:30PM

<p>MRC Members Present Franchesca Perez Bob Hillmann Mike Ehlebracht Cathy Stanley Paul Clampitt Traci Sanderson Sarah Brown Laura Gurley Deborah Hopkins Tom Doerge Craig Wollam Susan Tarpley</p> <p>Absent Laura Gurley (excused)</p>	<p>Staff, Presenters, and Others Kathleen Pozarycki, Snohomish County MRC Lead Staff Elisa Dawson, Snohomish County MRC Planner</p>
<p>Summary of Decisions</p> <ul style="list-style-type: none"> • October 17, 2018 MRC Meeting Summary was approved. • Paul will serve at the NWSC representative until April 2019, and then Franchesca Perez will take over as the NWSC representative. Tom will serve as the alternate. • Paul serve as the LIO representative and Traci will serve as the alternate. 	
<p>Upcoming Events</p> <ul style="list-style-type: none"> • November 16-17th MRC conference at Fort Worden in Port Townsend • December 4th forage fish survey • December meeting is cancelled; instead, there will be the MRC holiday party. Date TBD. Location will be at Paul’s house. 	

Welcome and Introductions

Chair Sarah Brown opened the Marine Resources Committee (MRC) 2018 retreat with a quorum at 5:30pm. Sarah welcomed everyone to the 2018 MRC Retreat and thanked the members for their time. Sarah stated that the goals of the retreat are to complete the 2018 work plan, brainstorm ways to advance the MRC in 2019, build connections and group cohesiveness, revisit the subcommittee lists, start thinking about the MRC grant for next year, and vote on the Northwest Straits Commission (NWSC) and Snohomish –Stillaguamish Local Integrating Organization (LIO) Representatives.

Approval of MRC Meeting Summary

Tom Doerge made a motion to approve the October 17, 2018 MRC Meeting Summary. Susan Tarpley seconded the motion. All were in favor and the motion passed.

MRC Representatives for the NWSC and LIO

Sarah asked volunteers to serve as representatives for the LIO and NWSC. Paul mentioned that he is interested in stepping down as the NWSC when his elected Chair term ends in the spring. Franchesca offered to step in as the NWSC representative when Paul's term ends. Kathleen offered to follow up on checking with the Northwest Straits Commission to determine the best date to switch the NWSC representative. Tom volunteered to serve as the alternate for the NWSC. Paul offered to continue to serve as the representative for the LIO. Traci volunteered as an alternate for the LIO. There were no other volunteers. Sarah made a motion that Paul would be the NWSC representative until his term ends, when Franchesca would then step in for him, and Tom will serve as the alternate for the NWSC. Paul will serve as the LIO representative and Traci as the alternate for the LIO. Sarah asked for all those in favor to say "aye." All were in favor of these appointments and the motion passed.

Brainstorm Strategy to Implement Current Work Plan

This year the MRC subcommittee leads gave brief presentations of their 2018 successes, challenges and Lessons Learned/Next Steps to help create a more effective 2019 work plan. Sarah facilitated the group through each subcommittee's presentation.

1. MRC Grant
 - a. Admin- Kathleen/Elisa
 - b. Ocean Literacy- Sarah/Franny
 - c. MyCoast Marketing Plan
2. Nearshore Restoration Project- Kathleen/Bob
3. Forage Fish Spawning Surveys- Traci/Cathy/Elisa
4. Meadowdale Park Restoration- Mike
5. Derelict Gear/Vessels- Paul/Kathleen
6. Recreational Fisheries/Crabber Social Marketing Project- Bob/Elisa
7. Mussel Watch- Mike
8. Oil Spill Preparedness- Susan
9. Kelp Monitoring- Tom/Traci/Elisa
10. Port Susan Marine Stewardship Area- Debbie, SHARP Program Workshop
11. Beach Watchers Update- Craig
12. Snohomish Estuary Restoration - Kathleen

MRC Grant Administration- Kathleen/Elisa, All

- a. Quarterly Grant Reports and Billing Management and Volunteer Hour Tracking
 - a. Volunteer hours due each quarter to Elisa- **All**
 - i. Volunteer hours due 1/11/2019
 - ii. Volunteer hours due 4/11/2019
 - iii. Volunteer hours due 7/11/2019
 - iv. Volunteer hours due 9/30/2019
 - b. Progress Reports- Kathleen & Elisa
 - i. Quarter 1 progress report due 1/11/19
 - ii. Quarter 2 progress report due 4/11/2019
 - iii. Quarter 3 progress report due 7/11/2019
 - iv. Quarter 4 progress report due 9/30/2019
- b. Meeting Logistics and Facilitation
- c. Annual Report- Due 4-11-19
 - a. Send draft to MRC for review- **Kathleen**
 - b. Proofreading/Editing- **Sarah, Mike, Bob**

- c. Develop 3-4 Council recommendations in bullet form
 - i. **Sarah** send out email with recommendations prior to March 1st for discussion at meeting
 - ii. Snohomish County Council presentation scheduled- Kathleen Schedule for early March
- d. Annual Work Plan- Due 2-22-19
 - a. Send draft to MRC for Review
 - i. **Kathleen** send out by 1-16-18
- e. Website Management
 - a. Web master volunteer team- **Debbie, Traci, and Franchesca**
 - i. Continue to provide access log in and training- **Kathleen with help from Sasha H.**
 - b. Review project webpages and update as necessary- **All MRC Leads**
 - i. Review all website text and links and send suggestions to MRC staff by 1-19-18
 - ii. Make edits as appropriate **Traci and Debbie**
 - c. Create Project page for MRC Grant **Elisa**

Ocean Literacy Project- Debbie, Sarah, Franny, Traci, Kathleen, Elisa, (Leads), all

Highlights: The Snohomish MRC hosted 6 movie events with special guest speakers in 2018. *Discover the Olympic Coast*, *Return of the River*, and *Chasing Coral* were each shown at the UW Bothell campus and Everett Community College. Over 300 community members attended these films and were able to meet and ask questions of the local experts, filmmakers, and documentary stars! Additionally, the Snohomish County MRC hired local filmmaker, Florian Graner, to produce *Discover the Salish Sea*, which contains footage of beaches throughout Snohomish County. This film was given to 65 local teachers to share with students, along with supporting NGSS curriculum.

Lessons Learned/Next Steps: Six films was very ambitious and a lot of work and commitment for our MRC members. In the future, we may want to focus on less events, but aim for larger community participation. Attendance was relatively good for all the films; however, depending on the future target audiences, locations off college campuses may be easier for the public to attend. Both locations were on college campuses and parking at the event location was somewhat challenging. The upside is that we had cooperation and support from both colleges but the downside was that there might have been higher attendance in places where parking and other logistics were easier.

- a. This project is complete, and will be followed up with the MRC Grant for 2018-2019, MyCoast Communications Plan and Implementation Project

MyCoast Communications Plan and Implementation Project- Kathleen, Elisa, Franny, Susan, Sarah

Highlights: MRC Grant awarded in October 2018 and goes through September 2019. The grant includes \$42,600 towards the creation of a MyCoast Outreach and Marketing Plan and Implementation. \$20,600 available for MRC Operations. \$22,000 is available for hiring a consultant.

Lessons Learned/Next Steps: A consultant will be hired through the Snohomish County Public Works on-call list to assist with this work. Because the consultant list starts in January 2019, the MRC has to wait until January 2019 to begin the process of hiring the consultant. This has stretched out the original timeline. Kathleen and Elisa are working to get a consultant hired and started on the planning process, to meet the Marketing Plan deadline of 3/8/2019

- a. MyCoast Outreach and Marketing Plan. Due 3/8/19 **Kathleen, Elisa**
- b. Progress report on implementation of outreach/marketing plan. Due 4/11/19 **Kathleen, Elisa**
- c. Progress report on implementation of outreach/marketing plan. Due 7/11/18 **Kathleen, Elisa**
- d. Final report on MyCoast Outreach and Marketing Plan 9/30/19 **Kathleen, Elisa**

Nearshore Beach Restoration Project Monitoring and Maintenance- Kathleen, Elisa, Bob, Laura

Highlights: City of Everett staff Bob Hillmann has used RTK GPS to track sediment movement and make a series of maps to document sediment movement.

Lessons Learned/Next Steps: Sediment continues to move. Current estimates show about 50% of the placed sediment has moved offshore. The team is currently monitoring the movement of sediment to determine what adaptive management may be needed. Erosion is occurring around the project culvert, possibly due to high stream flows.

- a. Draft Story Map available 2/1/19 **Kathleen, Elisa, Laura, Bob**
- b. Assess Army Corp Opportunity for beneficial reuse project-**Kathleen, Laura**
- c. ESRP Nearshore Learning Grant with UW Summer Monitoring- **Kathleen, Elisa**
- d. Sediment Sample Analysis-
 - i. Complete Lab sample analysis- PW/Engineering Services
 - ii. Enter data into spreadsheet electronically- Elisa work with Esther to do data entry
 - iii. Data analysis, work with SWM Science team and possibly NRC- **Kathleen, Elisa**
- e. Forage Fish Monitoring Plan for 2019- **Elisa**

Forage Fish Spawning Surveys- Kathleen, Elisa, Bob, Cathy, Craig, Cathy, Paul, Traci

Highlights: In 2018, sampling occurred in January, February, August, September, October, November, and December. Sampling occurred at the 14 Everett Nearshore Beach Nourishment sites, as well as 2 sites at Meadowdale and 2 sites at Picnic Point. Forage Fish eggs were found at many of the Everett nearshore beach nourishment sites. No eggs were found at Meadowdale or Picnic Point in 2018. In June 2018, the MRC hired Jamey Selleck, a consultant through Natural Resource Consultants, to analyze data from forage fish egg and sediment samples taken from the Everett nearshore beach nourishment sites from 2011 – December of 2017. The forage fish report was completed in December 2018.

Lessons Learned/Next Steps: Forage fish eggs sampling is scheduled to continue through February 2018. For the 2019-2020 season, the MRC will reassess the level of effort and sampling events. After additional analysis is completed in early 2019, the MRC will revise their forage fish monitoring plan moving forward to reduce sites, efforts and costs and increase efficiency.

- a. Sampling Events: Determine schedule and sites for 2019-2020 sampling- 6/1/18 **Kathleen, Elisa**
- b. Summer Sampling: Howarth Park & Restored Index Site (Sites 12 & 13) sampled monthly **Elisa**
- c. Set up monthly sampling dates for the index site based on tides lower than 7 ft.
 - i. Volunteer help for collecting samples- sign up for sample dates- **all**
 - ii. Summer Blue vortex- **Elisa/Traci lead at respective offices depending on schedule**
 - iii. Deliver monthly index samples to WDFW- **Elisa**

Meadowdale Park Design and Cost Benefit Analysis- Mike, Kathleen, Elisa

Highlights: Earth Economics completed a cost benefit report of the proposed restoration project and MRC Staff and Members provided significant input into the creation of this report and also a portion of the funding to pay for the consulting fees. Logan Daniels, project manager for the Meadowdale Project, completed and turned in several grants to fund the project. The team continues to meet with BNSF and construction is scheduled for 2020.

Lessons Learned/Next Steps:

- a. Track project funding and construction schedule for 2019- **Kathleen, Mike**
- b. Write letters of support if needed for project- **Kathleen, Mike**
- c. Provide input as needed to Parks Staff for project- **Kathleen**

Recreational Fisheries Education/Crabber Social Marketing- Bob, Paul, Cathy, Susan, Laura

Highlights: The Recreational Crabber Outreach project is a partnership with the Snohomish County Marine Resource Committee (MRC), and Washington State University Beach Watchers (WSU) with support from the Northwest Straits Commission and the Washington State Department of Fish and Wildlife. The goal of the project was to contact recreational crabbers at different locations to provide in person information about catching more crab by minimizing lost crab pots. Over a three-day period at the beginning of the crabbing season in July, volunteers from WSU and the MRC contacted about 1,400 recreational crabbers at the Port of Everett, Kayak Point and the Edmonds Pier. The response from the recreational crabber's was very positive and it is the recommendation of the committee the program continue.

Lessons Learned/Next Steps: It worked well to switch to a 6AM-12PM schedule this year. However, Kayak Point does not open until 7AM or later, so the outreach at Kayak should start later. The MRC also wants to look into ways of packaging the supplies in non-plastic bags. Because of budget uncertainty with WSU Beach Watchers, it is unknown how the MRC will do outreach for Crabber opening day 2019.

- a. Determine if funding is needed for Beach Watcher Support- Kathleen, Craig
- b. Coordinate with Beach Watchers for Crabber Opening Day July 1, 2, and 8- **Bob and Paul**
- c. Inventory existing supplies, consolidate and work with Beach Watchers to put together packets for 2019 including Bait Clips, Crabber Nautical Charts, and Crab Gauges- **Bob and Paul**
- d. Work with Don Velasquez from WDFW to order more crab gauges- **Elisa**
- e. Create plan for Organization and Distribution, using non-plastic bags- **Bob and Paul**
- f. Continue to take advantage of outreach and education opportunities during the entire summer season available at the Edmonds' Olympic Beach Visitor Center and Fishing Pier

Working Dinner Break

The MRC paused for a working dinner break at 6:45p.m.

Mussel Watch- WDFW Caged Study- Mike, Susan (City of Edmonds), Elisa

Highlights: The MRC sponsored and deployed a Mussel Watch cage at City of Edmonds Brackett's Landing. MRC members also volunteered to deploy cages at Meadowdale and the Port of Everett sponsored by WDFW. All three cages were installed during low tides in December 2017 and retrieved in February 2018. The mussels were delivered to WDFW and preliminary contaminant testing results are expected to be published in early to mid-2019.

Lessons Learned/Next Steps: Retrieval activities went well and there were no issues with lost cages, safety concerns, or mussel mortality. Recommend using the same locations for deployment for the 2019/20 Mussel Watch study.

- a. MRC members will try to attend a presentation on the results of the 2017/18 Mussel Watch study will be presented by Jennifer Lanksbury of WDFW at the Sound Waters University on February 2, 2019.
- b. Invite Jennifer Lanksbury to MRC meeting to present. 3/1/19. **Elisa**
- c. MRC sponsor: Edmonds at Brackett's landing for deployment in 2019. 9/1/19 – **Susan to lead and get permit if needed**
- d. MRC volunteer for install at Edmonds, and other Snohomish County locations as needed. 10/1/19 **Elisa**

Oil Spill Preparedness- Susan, Franny, Mike, Debbie, Craig, Laura

Highlights: Successfully continue to build interagency relationships vital to successful spill prevention, preparedness, and response in Snohomish County and the Puget Sound region. Networked with stakeholders at the Clean Pacific Conference & Exhibition in Portland, Oregon, a conference, designed for all parties responsible for prevention and response operations in the Western United States and Canada. This conference facilitated multi-jurisdiction coordination and discussed best practices and new solutions for oil spill response. The MRC was invited to participate with regional, state, and federal stakeholders in the initial planning phases of a Model Volunteer Oil Spill Response program. This program, coordinated by WSU Extension, aims to develop, maintain and coordinate a regional team of trained volunteers for use in spill response. Remained informed about current issues regarding oil spill preparedness and response via information disseminated on multiple ListServes including the Pacific States-British Columbia Oil Spill Task Force, Department of Ecology, and the Northwest Area Contingency Plan committee.

Lessons Learned/Next Steps: Continue important partnerships with Snohomish County Department of Emergency Management (DEM), as well as state and federal jurisdictions involved in oil spill preparedness and response. Susan will continue to serve on Local Emergency Planning Committee as the community representative.

- a. Potentially expand the MRC's multi-organization collaboration to include railroad operators in Washington State, such as BNSF, as a follow-up to the conditions of the state's first-ever approved oil spill response plan in 2018.
- b. Participate in an advisory capacity in the initial stages of development of a possible model program for the use of volunteers in oil spill response- Susan
- c. Schedule Subcommittee meetings as needed

- d. Continue to stay informed and network, emphasizing the paramount need for pro-active spill preparedness.
- e. Promote the value of multi-organization/multi-jurisdictional tabletop exercises and hands-on drills involving realistic scenarios, particularly oil train derailments.
- f. Participate on the Local Emergency Planning Committee (LEPC)- Susan
- g. Update Oil spill section on the MRC website- Susan, Franny

Kelp Monitoring- Tom, Traci, Kathleen, Elisa

Highlights: The year started out with two multi-agency workshops on kelp ecology, restoration and environmental significance, indicating significant regional interest in the MRC's annual kelp survey efforts. The MRC kelp data is becoming increasingly valued as more consecutive years' data are accumulated. Accordingly, in 2018 for the fourth year in a row, kelp beds in three south Snohomish County areas were surveyed using GPS-equipped kayaks. These areas included Mukilteo, Meadowdale and Edmonds. Continuing the trends observed in previous years, the abundance and size of kelp beds have declined in all three areas. In Mukilteo, only one of the six kelp beds previously identified is still present, and that size was less than 0.1 acre. In Meadowdale, only a few single kelp plants were sighted in place of the three beds present in previous years. In Edmonds, all three of the previously recorded beds are present, but with the two largest beds declining in size by 30-60% since 2017. While the reasons for the decline are unknown, possible reasons include increases in water temperature and degradation of kelp anchoring due to sedimentation.

Lessons Learned/Next Steps: Overall, the kelp surveying efforts in 2018 were safe and successful despite some problems with faulty GPS receivers, inaccurate thermometers and less than ideal water conditions on one surveying date. Accessing the Edmonds kelp beds also required a permit to enter restricted scuba park waters. The main lessons learned include ensuring that backup data collection devices are available and to identify in advance at least one backup date if water conditions are not suitable on the primary surveying date.

- a. Track Protocol Changes/NWSC Effort- **Tom**
- b. Set Dates for 2019 monitoring and create a team 5/14/19 **Tom, Traci, Kathleen, Elisa**
 - i. Consider doing only two months of sampling in 2019 as we did in 2018
- c. Get safety training for new volunteers and ensure SWM supervisors are aware of plan 6/1/18 **Tom, Traci, Kathleen, Elisa**
- d. Ensure each volunteer signs insurance liability waivers 7/1/19 **Tom, Traci, Kathleen, Elisa**
- e. Find sea kayaks for monitoring- Check with Lincoln or Doug Dailer (Ranger at Meadowdale park) 7/1/19 **Tom, Traci, Kathleen, Elisa**
- f. File float plan for each event 7/1/19 **Tom, Traci, Kathleen, Elisa**

Port Susan Marine Stewardship Area- Kathleen, Elisa, Traci, Debbie

Highlights: The Port Susan (PS) Subcommittee continued to build partnerships throughout the region by reaching out to communities most impacted by the Port Susan marine stewardship area. These communities stretched throughout the community from shoreline landowners contemplating armor removal to Sound Water Stewards volunteers and citizen scientists. We reached out through post card mailings to shoreline landowners to promote free site visits. The MRC presented in partnership with Island MRC to the Sound Water Stewards (SWS) October business meeting to bring new attention to the Port Susan Marine Stewardship Area. The MRC shared the MyCoast App strategy for building public awareness and engagement with the shoreline. We continue to invest in strategizing with Citizen Science groups in the region to identify projects that can build on the MyCoast platform to engage and educate the larger Snohomish County community about the

benefits of marine stewardship and restoration efforts. Finally, we engaged in early discussions around new potential mussel monitoring studies investigating the link between water quality and eel grass habitat protection and restoration. We hope that the Port Susan habitat can serve as a pilot site from which WDFW and academic partners can draw data that will both inform habitat improvements and improve on existing water quality assessments in the broader Puget Sound ecosystem.

Lessons Learned/Next Steps: Follow up with SWS and identify any potential interest in Citizen Science with a booth at Sound Waters event in February and Survey Monkey through SWS business team (Scott)

- a) Schedule a MyCoast IGNITE Presentation to Snohomish County BeachWatchers- **Debbie/Susan**
- b) Continue to support SHARP workshops and site visit scheduling and provide support to native vegetation or Realtor workshops planned for 2019.
- c) Using our faculty connections at UWB, try to develop a Community Based Learning and Research independent study course/for credit student outreach approach to channel better approaches to reach youth/student populations in the community
- d) Invite Sara Maxwell and Heather to MRC meeting and plan a facilitated discussion to create ideas for collaboration- **Debbie, Kathleen, Elisa**

Snohomish Estuary Clean-up & Derelict Crab Pots- Kathleen, Paul, Susan, Cathy

Highlights: 2018 has been a busy year for the Snohomish Estuary Cleanup. The MRC has encouraged the County to create a derelict vessel removal pilot program. This pilot program has led the removal of seven derelict vessels in 2018 using a combination of state grants, DNR reimbursement and SWM fees. The County has worked with our purchasing department to utilize the State of Washington Department of Enterprise Services Master Contract for Derelict Vessel Removal to add additional work orders for the local Snohomish County work. The MRC also continues to work with the Northwest Straits Foundation on derelict crab pot removal in Port Gardner.

Lessons Learned/Next Steps: Need to ensure that we budget accurately to include increases for taxes, for change orders due to unforeseen circumstances, for finding asbestos, and for other similar types of common issues. We also need to consider requesting council/executive approval for the program for authority for the year, rather than a boat by boat basis.

Directions for 2019 – Asses status of unpermitted marinas as these locations are a continuing source of derelict vessels. Continue to track remaining derelict vessels and work with DNR and SWM to conduct removal, as funds are available.

- a. Contact DNR when new budget is available- Late June 2019, Kathleen
- b. Conduct Estuary Recon Trip to determine status of derelict boats- **Paul, Kathleen, SWM Staff**
- c. Work with WDFW and Northwest Straits Foundation about their funding to conduct a 2019 derelict crab pot removal 3/1/19. **Kathleen, Susan**

Connecting with Elected Officials

Kathleen discussed activities done by the MRC in 2018 to connect with elected officials. The MRC gave their annual presentation in the spring of 2018. Later in 2018, SWM proposed budget cuts to the MRC Program and MRC members worked with the Snohomish County Council and County Executive in the summer of 2018 to reinstate these proposed cuts. Kathleen suggested the MRC write a thank you letter to the Snohomish County Executive and Snohomish County Council. The MRC agreed to work on these thank you notes. In order for the MRC Program to continue to conduct projects at the current level in 2020 and beyond, SWM needs rate increase to maintain current services. The MRC agreed to write a letter to support the SWM Rate Increase in early 2019.

Additionally, Sarah Brown suggested that the MRC work to reschedule the meeting with the Snohomish County Executive. Kathleen and Sarah will work on scheduling this meeting. Kathleen suggested that the MRC continue regular communication between the MRC and the Snohomish County Council and Executive. Kathleen suggested the MRC make a list of topics of concern, and work on communicating these to the Snohomish County Council and Executive. The MRC could bring in experts from partner agencies to help them with presentations to elected officials. Due to time constraints, the MRC will continue this conversation at the January Meeting and create a plan for 2019.

Retreat Wrap Up

Sarah thanked the MRC for their time at the retreat. Kathleen will follow up with MRC members to get a written report from each of them on their subcommittee. This work will help complete the 2019 work plan, update the MRC website.

Announcements

- MRC Annual Conference will be held November 16-17th at Fort Worden in Port Townsend. Susan will be giving an IGNITE talk on MyCoast, and the MRC will have the MyCoast booth at Happy Hour.
- Forage fish survey- December 4th
- The December MRC meeting will be a holiday party. Date TBD. Location will be at Paul's house.

The meeting adjourned at 8:35 pm.