

**WSU Snohomish County Extension Beach Watchers
2018 Training Schedule**

Introductions: To Each Other and Our Watersheds		
WEDNESDAY, March 21	Room 358, WSU Everett Campus	Recommended Reading / Project Due Dates
9:00 – 10:00 AM	WELCOME TO BEACH WATCHERS <ul style="list-style-type: none"> • Program overview and Expectation • Group Presentations 	
10:00 – 10:45 AM	TRAINING DETAILS <ul style="list-style-type: none"> • Sign in • Sign up for snacks • Sign in/out for library books • Evaluations • Field Trip Safety 	
10:45 – 11:00 AM	BREAK	
11:00 – 11:45 AM	MEET YOUR CLASSMATES (Part 1)	
11:45 – 12:15 PM	LUNCH	
12:15 – 1:00 PM	PRE-TEST: What do you already know?	
1:00– 2:45 PM	INTRODUCTION TO ECOSYSTEMS AND ECOSYSTEM PRINCIPLES David Bain, University of Washington	What is an Ecosystem (pgs. 26 – 30)
2:45 – 3:00 PM	BREAK	
3:00 – 3:20 PM	WHAT DO YOU HOPE TO LEARN? A Group Conversation	
3:20 – 4:00 pm	MEET YOUR LOCAL WATERSHEDS Chrys Bertolotto, WSU Snohomish County Extension	How Watersheds Work (pgs. 95 – 98)
Freshwater Ecosystems		
Wednesday, March 28	McCollum Park 600 128th St SE, Everett 98208 Field Trip: Adopt a Stream Center	Recommended Reading / Project Due Dates
9:00 – 10:45 AM	PUGET LOWLAND STREAMS AND RIVERS Wesley Lauer, Seattle University	Ground Water “Buried Treasure” (pgs. 91 – 94)
10:45 – 11:00 AM	BREAK	
11:00 AM – 12:00 PM	PUGET SOUND LAKES Gene Williams, Snohomish County Surface Water Management (Retired)	Understanding Lake Ecology (pgs. 105 – 108)
12:00 – 12:30 PM	LUNCH	
12:30 – 2:00 PM	PUGET LOWLAND WETLANDS Paul Anderson, Washington Department of Ecology (retired)	Wetlands as Varied as our Region (pgs. 99 – 104)
2:00 – 2:20 PM	BREAK and Walk to field Site	
2:20 – 4:00 PM	FIELD TRIP: North Creek Wetlands Tom Murdoch, Northwest Stream Center	

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Water Quality Overview		Recommended Reading / Project Due Dates
Wednesday, April 4	Room 358, WSU Everett Campus	
9:00 – 11:00 AM	WATER QUALITY OVERVIEW AND EMERGING CONTAMINANTS Ralph Sverjick, Washington Department of Ecology	The Science of Stormwater (pgs. 140 – 144) Toxics in Surface runoff to Puget Sound (pgs. 145 – 148)
11:15 – 11:30 AM	BREAK	
11:30 AM – 12:00 PM	WATER QUALITY ANALYSIS SCENARIO ACTIVITY	Protecting Water Quality from Agricultural Runoff (pgs 149 – 150)
12:00 – 12:30 PM	LUNCH	
12:30 – 2:00 PM	STORMWATER POLLUTION Apryl Hynes, City of Everett	Protecting WA's Waters from stormwater pollution (pgs. 133 – 139).
2:00 - 2:15 PM	BREAK	
2:15 – 4:00 PM	LOW IMPACT DEVELOPMENT and Parking Lot Design Charette Paul Crane, City of Everett	Catching Rain (pgs. 180 – 183)
Coastal Processes		
SATURDAY, April 7	North County Fire Station, Warm Beach Field Trip: Kayak Point Co. Park	Recommended Reading / Project Due Dates
9:00 – 10:00 AM	INTRODUCTION TO GROUP PROJECTS – GROUP CHECK IN Chrys Bertolotto, WSU Snohomish County Extension	
10:00 – 10:15 AM	BREAK	
10:15 – 11:45 AM	FORAGE FISH Dan Penttila, Salish Sea Biological	Forage Fish in Puget Sound (pgs. 50 – 54)
11:45 – 12:30 PM	LUNCH & SPECIMEN / MAP VIEWING	
12:30 – 1:45 PM	COASTAL PROCESSES Hugh Shipman, Washington Department of Ecology	The Geomorphic Setting of Puget Sound and Puget Sound Notes (pgs. 3 – 21)
1:45 – 2:00 PM	BREAK AND TRAVEL	
2:00 – 4:00 PM	KAYAK POINT FIELD TRIP AND ACTIVITY Dan Penttila and Hugh Shipman (Confirm with parks)	
Wonderful Wildlife		
Wednesday, April 11	Room 358 WSU Campus	Recommended Reading / Project Due Dates
9:00 – 10:30 AM	SALMON: FROM MOUNTAINS TO SOUND Rodney Pond, Sound Salmon Solutions	The Behavior and Ecology of Pacific Salmon and Trout (pgs. 55 – 64)

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10:30 – 10:45 AM	BREAK	
10:45 – 12:00 PM	PUGET SOUND MARINE BIRDS: STATUS Jenn Lang, Seattle Audubon Seabird Program	Sharing Puget Sound with Marine Birds (pgs. 41 – 49)
12:00 – 1:00 PM	LUNCH and GROUP PROJECT TIME	
1:00 – 2:30PM	CHARISMATIC MEGA FAUNA – Pinnipeds and Beyond Casey McLean, SR3	Marine Mammals Section (pgs. 66 – 90)
2:30 – 2:45 PM	BREAK	<u>Project: Submit your Topic Choice to Chrys</u>
2:45 – 4:00 PM	DUNGENESS CRABS AND HARVEST IMPACTS, Don Velasquez, Washington Department of Fish and Wildlife	Dungeness Crabs (pgs. 36 - 38) and Recreational Crabber Packet (<i>in pocket folder</i>)
Estuaries / Climate Change	<i>Shared Day with Salish Sea Stewards</i>	
WEDNESDAY, April 18	Padilla Bay National Estuarine Research Reserve – 1.3 ft low tide at 1:22 pm	Recommended Reading / Project Due Dates
9:00 – 10:45 AM	CLIMATE CHANGE – Science and the Pacific Northwest Betty Carteret, Friends of Skagit Beaches	Climate Change Section (pgs. 109 – 132) and <i>Adapting to Change</i> (in Pocket Folder)
10:45 – 11:00 AM	BREAK	
11:00 – 12:00 PM	OCEAN ACIDIFICATION Brook Love, Western Washington University	
12:00 – 1:00 PM	EXHIBIT VIEWING, LUNCH and GEAR UP	
1:00 – 2:30 PM	ESTUARIES AND EELGRASS ACTIVITY IN THE MUDFLAT Susan Wood, WA Department of Ecology, Padilla Bay NERR	Eelgrass Fact Sheet (pgs. 190 – 191)
2:30 – 3:00 PM	BREAK and CLEAN UP!	<u>Submit Your Project Roles / Approach to Chrys</u>
3:00 – 4:00 PM	EELGRASS IN THE SALISH SEA	

Reaching to the Corners		
Wednesday, April 25	Room 358, WSU Campus	Recommended Reading / Project Due Dates
9:00 – 10:30 AM	EFFECTIVE COMMUNICATION TECHNIQUES: BREAKING THROUGH THE NOISE Brett Atwood, WSU Integrated Strategic Comm. Faculty at WSU - North Puget Sound campus	General Public Opinion Survey and What is Social Marketing? (pgs. 234 – 241)
10:30 -10:45 AM	BREAK	
10:45 – 12:00 PM	GROUP PROJECT TIME	
12:00 – 12:30 PM	LUNCH	

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12:30 – 2:00 PM	CONTAMINATED LANDS IN SNOHOMISH COUNTY AND THE CLEAN UP PROCESS Andrew Kallus, Washington Department of Ecology	
2:00 – 2:15PM	BREAK	
2:15 – 3:30 PM	CITIZEN SCIENCE 101 – An Introduction and Practicum Rick Albright, WSU Beach Watcher (Class of 2016)	

Land Use, Regulations and Development - Revised		
Wednesday, May 2	Room 256, WSU Campus	Recommended Reading / Project Due Dates
9:00 – 10:15 AM	REGULATIONS: WHY CARE? Alison Hodgkin, Snohomish County Planning and Development Services	Introduction to Shoreline Management Act and Selected Excerpts... (pgs. 169 – 174)
10:15 – 10:30 AM	BREAK	
10:30 – 12:00 PM	SIMPLE LIVING and Activity Heather Teegarden, WSU Sustainable Community Stewards	At Home Section (pgs 242 – 250)
12:00 - 12:30 PM	LUNCH	
12:30 – 2:30 PM	Videos / Discussions about Watershed Uses AND Cool Climate Calculator Assessment and Q/A Session on Climate Change with Betty Carteret	Understanding Tribal Treaty Rights in Western Washington (pgs. 175 – 179) and Benefits, Results and Challenges of Marine Reserves (pgs. 184 – 186).
2:30 – 2:45 PM	BREAK	
2:45 – 4:00 PM	Group Project Time / Discussion	<u>Submit your Overview of Topics and Audiences to Chrys</u>
Degradation and Restoration		
Saturday, May 5	Martha's Lake Fire Station 21, 16819 13th Ave W, Lynnwood Meadowdale County Park – Field Trip	Recommended Reading / Project Due Dates
9:00 – 10:30 AM	INVASIVE SPECIES Kenzi Smith (Washington Recreation and Conservation Office) and Richard Visser (Washington Department of Fish and Wildlife)	Bio-Invasions (pgs. 200 – 212)
10:30 – 10:45 AM	BREAK	
10:45 – 12:00 PM	HOPE IN HABITATS Keely O'Connell, Nature Insight Consulting	Top 10 Principles for Designing.... (pgs. 213 – 224)
12:00 – 12:45 PM	LUNCH AND TRAVEL	
12:45 PM – 3:30 PM	MEADOWDALE COUNTY PARKS SITE VISIT Station 1: NATIVE PLANT WALK (To Be Announced)	Coastal Native Plants (pgs. 187 – 189)

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	Station 2: RESTORATION TOUR AND DISCUSSION Logan Daniels, Snohomish County Parks, Recreation and Tourism	
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Beach Naturalist Training (Day 1)		
Wednesday, May 9	Room 256 WSU Campus	Recommended Reading / Project Due Dates
9:00 – 9:20 AM	NATURALIST TRAINING OVERVIEW AND INTRODUCTIONS Chrys Bertolotto, WSU Snohomish County Extension	
9:20 – 10:30 AM	ZONATION AND TIDES Susan Dearn-Tarpley, Edmonds Discovery Programs Ranger	Tides in Puget Sound (pgs. 22 – 25) and Seashore Players Most Successful... (pgs. 31 – 32)
10:30 -10:45 AM	BREAK	
10:45 – 11:45 AM	BEACH MARINE ORGANISMS AND HOW THEY ARE ORGANIZED Jeff Adams, University of Washington	
11:45 – 12:15 PM	LUNCH	
12:15 PM – 2:00 PM	YOUTH EDUCATION TECHNIQUES Jana Ferris, WSU Snohomish County Extension 4-H	Education Section (pgs. 225 – 233)
2:00 – 2:15 PM	BREAK	
2:15 – 3:00 PM	SEGMENTS AND RIBBON WORMS, Laura Milleville	<i>Intertidal Life of Puget Sound and Explore our Puget Sound Beaches</i> (in pocket folder)
3:15 – 4:00 pm	INTRODUCE HOME WORK, LENDING LIBRARY and TIME TRACKING Chrys Bertolotto, WSU Snohomish County Extension	

Beach Naturalist Training (Day 2)		
Wednesday, May 16	Edmonds City Hall, Bracketts Room Field Trip: Edmonds Olympic Beach -2.5 AT 2:15 PM	Recommended Reading / Project Due Dates
9:00 – 10:30 AM	BEING A BEACH NATURALIST Chrys Bertolotto and Carol Ann Pinto (Naturalist, Class of 2015) <ul style="list-style-type: none"> • Approaching Someone • Qualities of A Good Interpreter • Scenarios to Ponder 	<i>Beach Naturalist Booklet</i> (in pocket folder), the Pelagic Food Web (pgs. 33 – 35)

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	<ul style="list-style-type: none"> • Safety on the Beach • Touch Tank Education 	
10:30 – 10:45 AM	BREAK	
10:45 – 11:45 AM	MARVELLOUS MOLLUSKS Franchesca Perez, Stillaguamish Tribe	Keystone Species of the Estuary (pgs. 39 – 40), Bivalves for Clean Water (pgs. 154 – 157)
11:45 AM – 12:30 PM	STUNNING SEAWEEDS, Tim Ellis (WSU Beach Watcher, Class of 2015)	Introduction to Seaweeds (pgs. 192 – 199)
12:30 – 1:15 PM	TRAVEL TO EDMONDS OLYPIC BEACH AND HAVE LUNCH	
1:15 – 3:45 PM	BEACH EXPLORATION WITH VETERANS: From Low to High Intertidal Veteran Beach Watchers and Beach Naturalists	
Beach Naturalist Day 3		
SATURDAY, May 19	Mukilteo City Council Chambers Field Trip: Mukilteo Lighthouse Park -2.4 at 2:37 PM	Recommended Reading / Project Due Dates
9:00 – 10:00 AM	SPINY SKINNED ANIMALS TO BE ANNOUNCED!	
10:00 – 10:45 PM	OVERVIEW OF SALISH SEA HISTORY AND ISSUES Chrys Bertolotto, WSU Snohomish County Extension	Salish Sea Facts (pgs. 1 – 2)
10:45 – 11:00AM	BREAK	
11:00 – 11:45 AM	MARINE ARTHROPODS: Crabs and Barnacles Fred Benedetti, WSU Beach Watcher (Class of 2006)	
11:45 – 12:30 PM	SPONGES AND CNIDARIANS Sara Noland, WSU Beach Naturalist (Class of XXXXX)	
12:30 – 1:00 PM	LUNCH AND TRAVEL TO Mukilteo Lighthouse Park	
1:00 – 1:30 PM	EACH ONE TEACH ONE HOME ASSIGNMENT	“Each One, Teach One Activity” Ready – provided on 5/9
1:30 - 3:45 PM	YOUTH FIELD TRIP STATIONS Field Trip Veteran Beach Watchers and Beach Naturalists	

Questions We Are Asked, or Should Be!		
Wednesday, May 23 (times may vary)	Room 256, WSU Campus	Recommended Reading / Project Due Dates
9:00 – 10:00 AM	GROUP TEAM DISCUSSION – LAST ONE!	<u>Get it All Together!</u>

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10:00 – 11:00 AM	DOG POOP – WHAT IS THE RIGHT THING TO DO AND WHY BOTHER? Valerie Normand, Snohomish County Surface Water Management	Focus on Pet Waste Management (pgs. 158 – 159)
11:00 – 11:15 AM	BREAK	
11:15 – 12:00 PM	WATERSHED MODEL AND WHEEL OF QUESTIONS DEMO	
12:00 – 12:30 pm	LUNCH	
12:30 – 1:30 PM	HOUSEHOLD HAZARDOUS WASTE – WHERE CAN I GET RID OF IT? Heather Teegarden, WSU Snohomish County Extension	<i>Household Hazardous Waste Handout</i> (in pocket folder)
1:30 – 2:30 PM	NATURAL YARD CARE Cynthia LaBlue, WSU Snohomish County Extension Master Gardener	<i>How to be a Salmon Friendly Gardener and Gardenwise</i> (in pocket folder)
2:30– 2:45 PM	BREAK	
2:45 – 4:00 PM	PLASTICS AND MARINE DEBRIS Heather Trim, Zero Waste Washington	Garbage In, Garbage Out (pgs. 163 – 168)

Graduation Day		Recommended Reading / Project Due Dates
Wednesday, May 30	Room 256, WSU Campus	
9:00 – 10:45 AM	GROUP PRESENTATIONS	<u>Team Presentations</u>
10:45 – 11:00 PM	BREAK	
11:00 – 12:00 PM	PARADE OF BEACH WATCHERS	
12:00 – 1:00 pm	POTLUCK LUNCH	
1:00 – 1:45 PM	POST-TEST / THANK YOU NOTES	
1:45 – 2:45 PM	GROUP EVALUATION AND OPEN DISCUSSION Ani Gothard-Williams, WSU Beach Watcher (Class of 2015)	
2:45 – 3:00 PM	BREAK	
3:00 – 3:30 PM	GRADUATION AND CLASS PHOTO	