



AMY GROESBECK

Project Biologist

Amy has specialized in nearshore applied ecology since 2010. She has focused on natural resource management of coastal environments, most often shellfish, for coastal communities in Washington State and British Columbia. She has led scientific research collaborations involving communities, Tribes, agencies, and academia covering such topics as fisheries population assessments, commercial fisheries, predator/prey dynamics, and invasive species. She has also developed short- and long-term environmental monitoring plans (e.g., for songbirds, shellfish, water quality) for community groups, student programs, and Tribal natural resource departments. Amy has coordinated with local, state, and federal agencies to develop and complete research investigations in Washington and British Columbia. Her research has helped inform strategic risk assessments of human impacts on marine environments, and coordinated research priorities and environmental monitoring strategies among First Nations communities and coalitions.

Representative Projects

Mid-Barataria Sediment Diversion Project Endangered Species Act and Essential Fish Habitat (EFH) Consultation, Coastal Protection and Restoration Authority, Louisiana. *Project Biologist.* This project consists of a \$1.2 billion program to restore natural delta processes from the Mississippi River by reintroducing freshwater and sediment from the river into the Mid-Barataria Basin. The ESA and EFH consultations associated with the project are being conducted in close coordination with the third-party environmental impact statement being developed by the U.S. Army Corps of Engineers to ensure consistent analyses. Amy contributed to writing of the biological assessment and the EFH report.

Arlington Road Maintenance Facility Critical Areas Study, Snohomish County, Arlington, WA. *Project Biologist.* Participated in a critical areas study on three parcels being evaluated for proposed construction of the Arlington Road Maintenance and Fleet Management Facility. The work involved a site investigation to evaluate the potential presence of regulated wetlands and fish and wildlife habitat conservation areas on the subject properties, mapping critical areas, and documenting their regulatory classifications in a critical areas study. Thorough investigation of soil conditions was required due to several factors presenting challenges to making a wetland boundary determination.

Coastal Almanac Pilot, University of Washington College of the Environment, Seattle, WA. *Project Manager.* Managed a multi-institution National Science Foundation pilot project designed to improve inclusion of STEM education and career pathways to underserved populations through the development of a Coastal Almanac. Responsibilities included



EDUCATION

M.S., Coastal Resource Management, Simon Fraser University, Burnaby, British Columbia, 2013
B.S., Biology (Ecology & Evolution), University of Washington, 2006

CERTIFICATIONS

Open-Water SCUBA Diver, PADI, November 2014–present
Washington Boater Education Card

EXPERTISE

Coastal Ecology
Interdisciplinary Research Collaborations
Fish and Invertebrate Biology
Coastal Ecosystems Field Sampling
Biological Laboratory Processing
Water Quality Testing
Quantitative Analysis
GIS Mapping
Grant Writing

AFFILIATIONS

Clam Garden Network, 2010-present



coordinating meetings, events, and workshops with diverse stakeholders; managing data and budget; negotiating contracts and data materials and ownership agreements between universities and Tribal nations; conducting interviews; synthesizing and analyzing data and notes; preparing technical reports; facilitating graphic design and website development; and managing project website.

Clam Garden Network, University of Washington, Seattle, WA. *Project Manager/Ecologist.* Contributed to experimental design for paired experimental and survey study of sediment composition and larval recruitment of shellfish in First Nations clam gardens. Responsible for implementing field experiment, conducting surveys, and managing fieldwork, including coordinating volunteers. Managed data collection and processing, data and analysis, and prepared technical reports.

North Mercer Interceptor and Enatai Interceptor Upgrade Project, King County Wastewater Treatment Division, Mercer Island to Bellevue, WA. *Project Biologist.* Working with the project engineering team on environmental planning and permitting for a 14,000-foot sewer line replacement. Contributing to writing the SEPA checklist and critical areas reports for the local jurisdictions (e.g., cities of Bellevue and Mercer Island), conducting code consistency analyses, and preparing mitigation plans. The project includes evaluating potential impacts to sensitive resources along Lake Washington's shoreline and the Mercer Slough Wetland Complex in relation to ESA-listed species, critical habitat, and essential fish habitat. The work, to date, has included an assessment of environmental conditions throughout the project corridor; development of permitting documents for federal, state, and local land use permits; and preparation for meetings with resource agencies to discuss the potential impacts and mitigation options for the project. Work on the final permitting documents will continue through 2019.

Geoduck Recruitment and Survival Research, The Tulalip Tribes, Tulalip, WA. *Biologist.* Responsible for development and analysis of program to study geoduck recruitment and survival. Conducted field sampling, data management, data analysis, methodology development, and technical report writing for bivalve, crab, shrimp, contamination, and water quality studies. Also prepared grants to secure funding for the department.

Manila Clam Stock Assessment, Heiltsuk Nation Integrated Resource Management Department, Bella Bella, BC. *Ecologist.* Part of a team conducting an intensive strategic survey of 22 clam beaches within Heiltsuk and Wuikinuxv Territories. Work included survey preparation, local community crew coordination, directing live sampling and biosampling lab work, independent analysis, and final technical report synthesis.

Marine Ecosystem Research, Department of Fisheries and Oceans Canada, Vancouver, BC. *Ecologist.* Conducted comprehensive literature syntheses assessing marine ecosystem effects of activities in British Columbia. Developed risk assessment matrices, and prepared technical reports for multiple phases of projects for Department of Fisheries and Oceans Canada.

Marine Ecosystem Research, Coastal First Nations (CFN), British Columbia, *Ecologist.* Supported development of a regional marine resource management tool for Coastal First Nations. Organized ecological and community interview data, and ecological and methodological research; conducting expert interviews; and preparing technical reports. Developed environmental sampling recommendations for a spectrum of community capacity levels.

Kyuquot-Checlesheht Nation, Kyuquot, BC. *Ecologist.* Community biologist for an interdisciplinary community partnership research project with Simon Fraser University assessing shellfish status, otter predation, social and economic opportunities for communities in Kyuquot-Checlesheht, BC.