



MICHELLE (SHELLI) BRAYNARD

Senior Project Manager

Academic Background

Master of Science, Biology (Marine Ecology), Old Dominion University, Norfolk Virginia, 2003

Associate of Applied Science (Medical Technology), Thomas Nelson Community College, Hampton, Virginia, 1997

Bachelor of Arts (Anthropology), University of Illinois, Champaign-Urbana, Illinois, 1992

Specialized Professional Competence

Ms. Braynard is an accomplished and knowledgeable researcher and project manager with extensive experience in Florida coastal habitats. She is particularly skilled in designing and implementing ecological data collection programs, including mapping of resources using sub-meter-accuracy GPS, analyzing and presenting resulting data using state-of-the-art GIS software, and communicating results effectively to agencies and the public. Her in-water experience, including scientific diving and boating certifications, prepare her for both supervising and participating in all aspects of coastal environmental data collection. In addition, she has direct field and laboratory experience with water quality monitoring, phytoplankton ecology, and microbiological identification.

Representative Professional Experience

Senior Project Manager, SWC, August 2009-present, Key West, Fort Myers, & Miami, FL

Serve as manager of various ecological, land use and public involvement services for public- and private-sector clients, with responsibilities including data collection and analysis, report writing, and oversight of compliance timetables and budgets.

➤ **Wetland Mapping for Central Wastewater Project, Florida Keys Aqueduct Authority, Monroe County, FL**

Data collection to assist design engineer in wetland avoidance and minimization for new central wastewater system in Lower Florida Keys.

➤ **Walker's Island Maintenance Dredge Environmental Resource Permit, Monroe County**

Project manager for acquisition of environmental resource permits for maintenance dredging of entrance channel and boat basin, including design of comprehensive mitigation plan resulting in regional environmental enhancement, coordination with Florida Keys National Marine Sanctuary, Florida Fish and Wildlife Conservation Commission and U.S. Coast Guard, and processing of application with permitting agencies.

Manager of Lower Keys Damage Assessment, Restoration and Resource Protection (DARRP) Team, Florida Keys National Marine Sanctuary (FKNMS) through Florida Department of Environmental Protection, August 2006-September 2009, Key West, FL

Supervised and managed four employees to respond to vessel groundings and natural resource damage events, conducted biological assessments and prepared restoration plans and DARRP case management documents. Reviewed planning documents and permit applications and prepared recommendations on consistency of activities conducted within FKNMS Lower Region with FKNMS Management Plan and State environmental protection policies. Insured that damage assessment, restoration and monitoring plans were coordinated and consistent with federal, state and local regulations and management plans. Coordinated and provided technical and logistical field support for research, monitoring, and restoration projects within FKNMS. Assisted Sanctuary management with evaluating and resolving Sanctuary resource management issues and provided reports of monitoring findings to management and scientific community. Served as liaison with other State, local, and federal agencies regarding development and implementation of interagency agreements, response protocols, and civil penalty schedules for vessel groundings and oil spills within FKNMS. Prepared and administered State of FL portion of DARRP budget in accordance with FKNMS Annual Operating Plan.

Marine Research Associate & Florida Keys Tidal Restoration Project Manager, Florida Fish and Wildlife Conservation Commission, Fish & Wildlife Research Institute, January 2005-July 2006, Marathon, FL

Coordinated and managed all recreational mail surveys and monitoring, wrote public summary statements, and developed harvest estimates for recreational sector. Participated in team-based fishery and ecosystem research focusing on spiny lobster within and adjacent to the FKNMS, as well as Biscayne National Park and



Buck Island Reef National Monument in St. Croix, USVI. Assisted in design and implementation of projects to study distribution, abundance, size structure, growth, fecundity, and other life history attributes of spiny lobsters using both above- and under-water scientific sampling methods. Analyzed data using advanced statistical techniques to determine trends and statistical significance and maintained archival databases using QA/QC methods. Prepared presentations, reports, and peer-reviewed manuscripts of study results for journals, FWC and other management commissions, and scientific meetings. Led and participated as member of research teams in field sampling, and prepared and helped coordinate logistics of field sampling activities. Participated in maintenance and operation of field equipment and vessels. Managed FTE and OPS employees and coordinated with inter-agency scientists to complete water quality monitoring, hardbottom habitat assessment, seagrass assessment, benthic sediment and invertebrate sampling for FKTR project. Conducted field instrument calibration, operation and maintenance for FKTR. Designed and maintained relational data entry databases using Microsoft Access and performed data analyses using statistical methods. Organized and maintained project records including QA/QC, instrument maintenance, data, and reports. Generated monthly data submissions, semiannual baseline data reports, and final data reports using Microsoft products, ArcView, and EcoWatch.

Marine Research Assistant, Florida Fish and Wildlife Conservation Commission, Fish & Wildlife Research Institute, January 2003-December 2004, Marathon, FL

Assisted original project primary investigator (PI) in designing and implementing a multifaceted monitoring project (FKTR), including creation of a monitoring plan and quality manual in accordance with EPA standards. Performed data entry for various field projects and recreational lobster fisher mail survey returns. Participated in database maintenance, field research and sampling, laboratory sample analysis, and maintenance, operation, and trailering of FWRI vessels.

Graduate Research Assistant, Department of Biological Sciences, Old Dominion University, March 2001-December 2002, Norfolk, VA

Collected water samples and environmental information for the Chesapeake Bay Monitoring Program. Conducted field and water quality instrument calibration, operation and maintenance. Prepared and analyzed water samples for identification and quantification of phytoplankton involving extensive microscopic analysis and computerized data entry. Trailered and operated program vessels in a wide variety of conditions and over long distances. Assisted in preparation of presentations, reports, and peer-reviewed manuscripts of study results involving phytoplankton ecology in the Chesapeake Bay and surrounding areas.

Certifications, Training and Memberships

- Certified SSI Open Water SCUBA diver (@500 total dives) (@450 total scientific dives)
- NAUI Divemaster – currently enrolled in course
- Certified SSI Nitrox diver
- FDEP Scientific Diver 2008-2009
- NOAA Scientific Diver 2006-2008
- Certified AAUS Diver 2003-2006
- Certified YMCA SCUBA Lifesaving and Accident Management (SLAM)
- Certified Motorboat Operator (MOCC), US Dept. of Interior
- Certified American Red Cross CPR/AED and Standard First Aid

