

## Kalinda Roberts

*Permitting Specialist / Environmental Scientist*

### EXPERTISE

Experience in environmental compliance, biological monitoring, geospatial analysis, sediment analysis, field and water quality sampling, and Massachusetts and Federal environmental regulations.

### QUALIFICATION SUMMARY

- Experience conducting environmental inspections in compliance with local conservation commissions, MassDEP and Army Corps of Engineers regulations.
- Experience with biological surveys, water sampling, and sediment analysis.
- Experience with local, state, and federal permitting of environmental projects.
- Strong written and verbal communication skills, and the ability to engage diverse groups of stakeholders.
- ESRI ArcGIS; Microsoft Office; Microsoft Sharepoint.

### WORK EXPERIENCE

2018-Present	Permit Specialist/Environmental Scientist, Woods Hole Group, Inc.
2016-2018	Biologist, TRC Environmental
2016-2018	Volunteer, Boston Harbor Now
2016	Research Assistant, Geophysics Department Connecticut College
2016	Intern, Connecticut Department of Energy & Environmental Protection
2015	Intern, Dolphin Communication Project
2014	Assistant Bookkeeper, Terwilliger CPA



### Education

2016 – B.A.  
Biology  
Connecticut College

### Licenses and Registrations

- PADI Advanced Diver
- NHESP Turtle Collection Permit
- First Aid, CPR, & AED
- OSHA 40-Hour HAZWOPER

### Professional Affiliations

N/A

### Publications & Presentations

3

## KEY PROJECTS

### **Army Corp of Engineers, Cape Cod Canal Section 111 Feasibility Study – Environmental Scientist**

Acquired and georeferenced historical aerial photographs and maps for use in project analyses. Analyzed multiple historical aerial photographs to digitize the shoreline and to calculate long-term rates of shoreline change along transects through the beach and dune. Utilized MATLAB to compute annual rates of shoreline change between all available time periods between 1952 to 2018. Assessed volume of sediment lost down drift of the Canal over the past 50 years and predicted potential volume loss over the next 50 years incorporating predicted sea level rise in the analysis.

### **Massachusetts Department of Transportation, Massachusetts Coast Flood Risk Model – Environmental Scientist**

Processed model data of storm simulations and sea level rise scenarios of potential flooding risk for coastal communities throughout Massachusetts using ArcGIS. Data were processed to produce predicted flood risk maps for several time horizons including present day, 2030, 2050, 2070, and 2100.

### **Edgartown Municipal Vulnerability Preparedness Workshop - Facilitator**

Facilitated stakeholder engagement on climate change vulnerability and adaptation for the Edgartown Community Resilience Building workshop following guidelines for the MA EOEEA Municipal Vulnerability Preparedness (MVP) Program. Guided stakeholders in assessing local vulnerability of infrastructure, environmental and societal assets, and developed and prioritized actions to reduce vulnerability and increase resilience throughout the community.

### **Building Resilience through Argilla Road, Ipswich, MA; CZM Coastal Resilience Grant – Environmental Scientist**

Assisted with field assessment of potential tidal restriction at culvert located within the Crane Wildlife Refuge salt marsh on the Crane Estate in Ipswich, MA. A topographical survey was conducted within the tidal inlet using a real-time kinematic GPS. Tidal flow through the inlet was assessed by deploying tidal gauges upstream and downstream of the culvert.

### **Comprehensive Permitting for Dredging and Beach Nourishment Projects for the Towns of Edgartown and Falmouth, MA – Permitting Specialist**

Worked with Engineers, Coastal Geologists, and Project Managers to prepare Comprehensive Permit applications for dredging and beach nourishment at sites in Edgartown. The work involved collection of bathymetric and topographic survey data, sediment sampling and analysis, and wetland resource delineations. Engineering plans were prepared showing dredge footprints and depths, dewatering areas, and beach nourishment locations. Complete permit applications were filed with all necessary local, state, and federal agencies.

### **Shorefront Protection Permitting for Private Homeowners in all Cape Cod & Islands towns including Falmouth, Wellfleet, Edgartown, and Tisbury– Permitting Specialist**

Worked with Engineers, Coastal Geologists, and Project Managers researching and analyzing the various regulatory permits for dredging, beach nourishment and shorefront protection projects including bulkheads, rock revetments, coir fiber rolls, sand filled geotubes, bank stabilization, and dune reconstruction. Evaluated and assisted in developing strategies to affectively achieve the appropriate permits for their individual situations.

## KEY PROJECTS (CONTINUED)

### **Various Utility, Renewable Energy, and Transportation Projects - Biologist**

Performed biological surveys, water sampling, and environmental inspections for utility, photovoltaic solar energy system, wind farms, liquid natural gas distribution, and transportation projects throughout New England for TRC Environmental. Assisted with wetland delineations, recording GPS data, and biological assessments for these projects. Authored and organized local, state and federal regulatory submittals to the following agencies: Federal Energy Regulatory Commission, U.S. Fish and Wildlife (USFW), Massachusetts Department of Environmental Protection (MassDEP), Massachusetts Department of Conservation and Recreation (DCR), Massachusetts Natural Heritage & Endangered Species Program (NHESP) and Rhode Island Coastal Resource Management Council (RI CRMC).

### **Long Island Bridge Replacement Project, Boston, MA - Environmental Scientist**

Conducted a site evaluation and delineation of coastal resources on Long Island in Boston and Moon Island in Quincy for the proposed replacement of the Long Island Bridge with TRC Environmental. Compiled and assisted with permits associated with the project, including the local Notice of Intent permits, Chapter 91 License, and a Notice of Project Change filing.

### **Boston Harborwalk Public Amenities Viewer, Boston, MA – Volunteer**

Worked with MassDEP and Boston Harbor Now to compile and review Chapter 91 Licenses of all properties located along the Boston Harborwalk. Public uses listed within licenses were recorded and ground truthed. Public amenities surveyed along the Harborwalk were mapped in an online viewer, which is available for public use.

## PUBLICATIONS & PRESENTATIONS

Thompson, D.M., S. Fixler, A. Zhao, and K. Roberts. 2016. Natural pool-riffle formation and maintenance by large wood in gravel-bed river impacted by instream structures installed in the 1930s and 1950s, AGU.

Thompson, D.M., S. Fixler, K. Roberts, M. McKenna, A. Marshall, S. Koenig, 2016. PIT-tagged particle study of bed mobility on the Narraguagus River, ASEF

Thompson, D.M., S. Fixler, M. McKenna, A. Marshall, K. Roberts, and S. Koenig, in review. PIT-tagged particle study of bed mobility in a Maine salmon river impacted by logging activities, AGU.