**Ivy Mara Ozmon**

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**EDUCATION**

**M.S., Ocean and Earth Sciences**, Biological concentration, Old Dominion University, Norfolk, VA (2014)

Thesis title: Implications of climate change for cyanobacteria over the Western Florida Shelf in the Gulf of Mexico

**B.S., Earth and Environmental Science,** Virginia Wesleyan College, Norfolk, VA (2008)

**PROFESSIONAL EXPERIENCE**

**Water Resources Planner III, Hampton Roads Planning District Commission, October 2022 – present**

Provides technical assistance and planning support to Hampton Roads’ local governments, including tracking state regulation changes impacting drinking water and sanitary sewage collection, handling, treatment and disposal. Assists in developing and implementing regional programs to address regulatory and permit requirements for municipal water and wastewater utilities. Participates in research and data analyses that address water resource challenges in Hampton Roads.

**Water Quality Supervising Specialist, HRSD, Technical Services Division, September 2022 – October 2022**

**Water Quality Specialist, April 2020- September 2022**

Performed monitoring and sample collection for wastewater characterization and regulatory compliance efforts related to Sustainable Water Initiative For Tomorrow (SWIFT) projects at seven HRSD treatment plants. Performed data entry and quality assurance checks in the HRSD environmental data management system for SWIFT analytical data generated by external contract labs from 2016-2022. Performed various bench-scale biological assays to monitor nitrogen and phosphorus removal capacities and investigate plant process upsets. Collaborated with the HRSD GIS team to develop an odor monitoring application to streamline data collection, tracking, and reporting for odor control efforts at plants and throughout the HRSD collections system.

**Environmental Program Manager, Department of Utilities, City of Manassas, November 2018- April 2020**

**Water Compliance Officer, April 2018 – November 2018**

Managed the stormwater program and compliance functions related to the City’s Phase II MS4 VPDES permit, VPDES Industrial Stormwater General Permit for the Public Works Facility, and Individual VPDES Permit for the City Water Treatment Plant. Oversaw and ensured regulatory compliance for the City public water system and DCLS drinking water lab accreditation for the City Water Treatment Plant Drinking Water Laboratory as the laboratory manager. Participated in regional watershed protection meetings and planning efforts coordinated by the Northern Virginia Regional Commission.

**Benthic Ecologist & MCMI Principal Scientist, Maine Coastal Program, October 2014 – April 2018**

Designed and executed the benthic sampling program for the Maine Coastal Mapping Initiative (MCMI), expanding the state’s high-resolution bathymetric data coverage in Mid-Coast coastal waters by 257 square miles. Collected additional information about communities and environmental conditions at the seafloor and developed predictive GIS models for mapping surficial seafloor sediment and potential benthic habitat for the areas mapped with multibeam sonar.

**Water Quality Investigator, HRSD, Technical Services Division, April 2012 – December 2013**

Performed water and air quality sampling for all HRSD treatment plants and clients in the Municipal Assistance program for regulatory compliance, monitoring, or research purposes. Conducted surface and stormwater quality monitoring for microbial source tracking and measurement of non-point nutrient pollution in urbanized watersheds. Monitored groundwater at landfills for regulatory compliance and to determine the fate of trace organic compounds in groundwater following land applications of biosolids. Wastewater-specific projects included water quality characterization and nutrient profiling in various wastewater treatment processes; sampling water and air in the wastewater collection system to inform a model for condition assessment; bench and pilot scale biological assays to quantify nutrient and trace organic compound removal, respiration, nitrification and denitrification of bacteria in biological nutrient removal treatment processes; monitoring and maintenance of pilot scale treatment plants for research and development purposes; sludge and polymer dewatering assays; and sampling and toxicity testing of final effluent to comply with VPDES discharge permits.

**Research Assistant, May 2008 – April 2012**

Old Dominion University, Mulholland Lab, Norfolk, VA