# Susan Moberg, PWS, CFM

Principal\Manager of Energy and Environmental Sciences

**Susan is a leader of VHB's Energy Services Division and Manager of VHB's Providence office environmental permitting team. She has expertise in environmental site assessments, wetland delineation, soil analysis, and environmental permitting with a particular emphasis on the energy sector and the coastal environment. Susan has expertise in managing large complex projects requiring diverse skill sets.**

*28 years of professional experience*

**Education**

BS, Soil and Water Science, University of Rhode Island, 1993

**Registrations/Certifications**

Professional Wetland Scientist, 2003

Professional Soil Scientist, 1997

Licensed Soil Evaluator RI, 2000

Certified Floodplain Manager, 2013

Invasive Species Manager RI, 2009

**Affiliations/Memberships**

Society of Wetland Scientists

Society of Soil Scientists of Southern New England

Association of State Floodplain Managers

**Revolution Wind Farm Project**

Susan is VHB's Project Manager for Revolution Wind LLC's Revolution Wind Farm Project. The 704 megawatt (MW) wind farm is proposed on the Outer Continental Shelf (OCS) in Bureau of Ocean Energy Management (BOEM) Lease Area OCS-A 0486 approximately 20 miles south of the coast of Rhode Island. Susan is managing all aspects of federal, state and local permitting and licensing for the project including the BOEM Construction and Operations Plan (COP), US Army Corps of Engineers (USACE) Individual Permit, Environmental Protection Agency (EPA) OCS Air Permit, Federal Aviation Administration (FAA) Notice of Proposed Construction and Department of Defense (DoD) consultation, National Marine Fisheries Service consultations, RI Energy Facility Siting Board Application for a Major Energy Facility, RI Coastal Resources Management Council (CRMC) Coastal Zone Management Consistency Certification, CRMC Category B Assent application, CRMC Freshwater Wetlands Permit application, CRMC/RI Department of Environmental Management (RIDEM) Dredge Permit application, RIDEM Water Quality Certification, RIDEM RI Pollutant Discharge Elimination System authorization and Quonset Development Corporation (QDC) Development Plan Review application.

Under Susan's direction, VHB performed onshore studies including wetland and rare species surveys, bat acoustic surveys, Phase I Environmental Site Assessment and Subsurface Investigation, acoustic assessments, coastal and riverine floodplain modeling, land surveying, soil and sediment analysis, socio-economic and environmental justice studies, land entitlement due diligence and engineering design services. Susan manages a team of 14 subconsultants providing subject matter expertise in terrestrial and marine archaeological assessment, underwater acoustic modeling, air permitting and emissions inventory, marine mammal impact modeling, offshore avian and bat risk assessment, sediment transport modeling, economics and job analysis, aeronautics impact assessment, habitat mapping and characterization, essential fish habitat, commercial and recreational fisheries, navigational risk assessment, visual impact and historic resource visual effect assessment, unexploded ordnance detection and mapping, and electric and magnetic field assessment.

**Central Hudson H-SB Rebuild, Kingston, NY**
**PSC Docket 17-T-0816**

Serving as Project Manager, Susan Supervised comprehensive environmental survey and permitting services for a 23-mile long transmission line rebuild project. This project included an Article VII application filed with the NYSPSC in 2017, as well as state and federal permitting efforts. VHB is responsible for comprehensive environmental analyses, permit applications, development of EM&CP, and post-construction support. Although Susan was

called on to provide pre-filed testimony in PSC Docket 17-T-0816, she was not called on to testify in the PSC hearings.

**South Fork Wind Farm, Offshore Montauk Point, NY**
**PSC Docket 18-T-0604**
For the Deepwater Wind South Fork Wind Farm, Susan contributed to the preparation of the project's COP submitted to the BOEM and Assisted with the preparation of the Article VII application submitted to the NY Public Service Commission. Susan performed a quality assurance/quality control (QA/QC) review of the COP and prepared several amendments to the COP survey plan for various survey activities planned on the outer continental shelf. Susan supervised the development of an Acoustic Analysis for the proposed onshore substation, as well as supervising the review and analysis of various potential cable landfall locations and potential cable routes to the proposed substation. Route analysis included a review for sensitive receptors including wetlands, rare species, and land use, as well as potential use conflicts including tourism, transportation and noise impacts. Although Susan was called on to provide pre-filed testimony in PSC Docket 18-T-0604, she was not called on to testify in the PSC hearings.

**Gravel Pit Solar, East Windsor, CT**
**CT Siting Council Docket No. 492**
Susan is VHB's Project Manager for the proposed 120 MW solar photovoltaic development in the Town of East Windsor. As part of the project, Sue managed VHB's efforts to prepare a property boundary and topographic survey, develop a layout for the solar facility, develop grading and drainage plans and prepare an Application for a Certificate of Environmental Compatibility and Public Need for submission to the Connecticut Siting Council (CSC). In addition to the site plans and drainage analysis, the CSC application included a wetland delineation of the 730-acre project site, vernal pool surveys, surveys for rare, threatened and endangered species, wildlife and breeding bird surveys, a Phase 1a/1b cultural resource survey, an acoustical analysis, an aviation analysis, a carbon debt analysis, visual simulations and development of a landscaping plan. As part of the project, Susan attended various meetings with Town of East Windsor officials, and organized and presented at two noticed public open meetings. Susan performed consultation with the CT Department of Energy and Environmental Protection (CT DEEP) Natural Diversity Database program and the CT State Historic Preservation Office. Susan provided expert testimony at two CSC hearings and responded to interrogatories from the CSC and the Department of Agriculture. CSC approval of the application was issued in February 2021.

**Tobacco Valley Solar Farm, Simsbury, CT**
**CT Siting Council Petition No. 1313**
Susan is VHB's Project Manager for the 26.4 MW solar photovoltaic development in the Town of Simsbury. As part of the project, Sue managed VHB's efforts to prepare a property boundary and topographic survey, develop a layout for the solar facility, develop grading and drainage plans and prepare a Petition for a Declaratory Ruling from the CSC. In addition to the site plans and drainage analysis, the CSC application included a wetland delineation of the 290-acre project site, vernal pool surveys, surveys for rare, threatened and endangered species, wildlife and breeding bird surveys, a Phase 1a/1b cultural resource survey, an acoustical analysis, an aviation analysis, a carbon debt analysis, visual simulations and development of a landscaping plan. As part of the project, Susan attended various

meetings with Town of Simsbury officials, project abutter meetings, and organized and presented at two noticed public open meetings. Susan performed consultation with the CT DEEP Natural Diversity Database program and the CT State Historic Preservation Office. Susan provided expert testimony at three CSC hearings and responded to over 200 interrogatories from the CSC, the Town of Simsbury, the Department of Agriculture and Project abutters who were Parties to the CSC proceeding. The project was unanimously approved by the CSC in March 2019.

**National Grid, Rhode Island Reliability Project, Rhode Island**
**EFSB Docket SB 2008-02**
Susan managed VHB's licensing, permitting, and engineering contract with National Grid on the Rhode Island Reliability Project, a 24-mile transmission line improvement project. The project involved six Rhode Island municipalities and involves reconstruction of existing facilities within the right-of-way, which included an existing 345 kV line and two 115 kV transmission lines, and construction of a new 345 kV transmission line. Improvements to West Farnum Substation, Hartford Avenue, Drumrock and Kent County Substation were also planned. Susan oversaw the preparation of the Energy Facility Siting Board (EFSB) Environmental Report, state and federal wetland permit applications, various plans and graphics to support local planning and zoning applications, state and local traffic permit applications, and local stormwater/erosion control applications. Susan provided expert testimony regarding the project impacts during the EFSB evidentiary hearings, and was cross-examined by counsel from the RI Attorney General's office and project interveners.

**National Grid, Aquidneck Island Reliability Project, Rhode Island**
**EFSB Docket SB 2016-01**
Susan served as VHB's Project Manager for the National Grid Aquidneck Island Reliability Project (AIRP). The project was proposed to improve electric reliability on Aquidneck Island, which routinely experienced brown-outs and black-outs in the summer time. The project involved the reconstruction of four miles of 69 kV transmission line and upgrading the voltage to 115 kV, construction of a new substation in Newport, reconstruction of a substation in Middletown, modifications to a substation in Portsmouth, improvement of approximately 30 miles of distribution line, and retirement of five substations in Middletown and Newport. VHB provided environmental, engineering and aviation permitting support. VHB prepared and filed the Environmental Report with the RI EFSB, and prepared federal, state and local environmental permits applications. Permits for the project were received in 2017.

**Narragansett Electric, E-183 Transmission Line Relocation Project, Providence and East Providence, RI**
**ESFB Docket SB 2003-01**
Susan assisted The Narragansett Electric Company with the preparation of permit applications for the relocation of 6,200 linear feet of 115 kV transmission line through Providence and East Providence, RI. Permitting efforts included Coastal Resources Management Council, Army Corps of Engineers, and Rhode Island Energy Facility Siting Board (EFSB) applications. This highly controversial project included the design of a wetland restoration plan for the bank of a tidally influenced river, and expert testimony at a series of EFSB hearings spanning a 12-month timeframe. Additional services provided included topographic survey and photo simulation.