Jeffrey A. Nelson, CPESC, CPSWQ

Strategic Advisor

Jeff serves as a Strategic Advisor in VHB's office in South Burlington, Vermont. He provides overall management and strategic planning for environmental projects that the firm conducts and provides technical support for engineering and land development projects. Jeff has designed and implemented a large number of projects in Vermont and the northeastern United States involving water resources assessment, planning, impact analysis, permitting, and monitoring.

35 years of professional experience

Education

MS, Civil Engineering, University of Vermont, 1992

BS, Geology, University of Vermont, 1982

Registrations

Certified Professional in Erosion and Sediment Control (Erosion Prevention) VT, 2000

Certified Professional in Storm Water Quality (Stormwater Management) , 2002

Environmental Training Certification, VT Transco, LLC. (VELCO), 2006

Safety Training Certification, VT Transco, LLC. (VELCO), 2006

Iberdrola Renewables, Deerfield Wind, Searsburg and Readsboro, VT

With Jeff as Principal-in-Charge, VHB is providing environmental permitting support for a proposed 17-turbine wind farm located in the Towns of Searsburg and Readsboro, Vermont. Activities include the design and permitting of the operational and construction phase stormwater management plans as part of the Section 248 Vermont Public Service Board and Vermont Department of Environmental Conservation permitting processes. VHB also provided wetland permitting support and prepared the General Section 404 Permit authorization request and Individual Section 401 Water Quality Certification application for the project. VHB has provided on-site assessments and data collection; land use, land cover, and watershed mapping; hydrologic modeling; stormwater management system design; preparation of permit applications; and ongoing coordination and collaboration with the client and regulators.

Green Mountain Power, Kingdom Community Wind Project, Lowell, Westfield, and Jay, VT

With Jeff as Principal-in-Charge, VHB provided the full suite of environmental consulting services for this landmark, high-profile project constructed by Green Mountain Power (GMP) in northern Vermont. The 63-MW project includes 21 turbines on 3.2 miles of Lowell Mountain Ridgeline, along with a 16.2-mile transmission line upgrade. VHB completed all natural resources assessments in support of the Section 248 filing for a CPG from the VT PSB. Field assessments included wetland/waters delineations and VWR classifications, wetland function and value assessments, rare/threatened/endangered flora and natural community surveys, vernal pool surveys, and mitigation site assessments. Jeff served as an expert witness for the preparation of testimony for PSB hearings. VHB's staff members responded to numerous project deadlines and challenges to assure the project was permitted and under construction in just over two years.

Transmission Developers Incorporated, New England Clean Power Link, Vermont

The New England Clean Power Link (NECPL) project involves the construction of a 1,000 MW high-voltage direct current (HVDC) transmission cable from the Canadian border at Alburgh, Vermont to an existing electrical substation in Ludlow, Vermont. The project will involve 100 miles of cable laid along the bottom of Lake Champlain and 50 miles of overland construction in existing public roadway rights-of-way. With Jeff as Project Manager, VHB prepared applications for state environmental permits for the project, including the Shoreland Encroachment Permit, the Stream Alteration Permit, the 401 Water Quality Certification, Construction Stormwater Permit, Operational Stormwater Permit, and assisted with the US Army Corps of Engineers Section 404 and Section 10

permitting. All permits were issued with minimal delay considering the high profile nature of the project. Jeff also provided expert testimony and exhibits on water replated criteria as part of the Public Service Board Section 248 review of the NECPL project, for which a Certificate of Public Good was issued in January 2016.

I-89 Exit 16 Diverging Diamond Interchange, Colchester, VT

For the Vermont Agency of Transportation (VTrans), Jeff is providing technical expertise in the context of a contested Act 250 permit review for the redevelopment of the I-89 Exit 16 interchange. The project includes new, redeveloped and resurfaced roadway and proposes new stormwater management practices to capture and treat stormwater runoff. Due to its linear nature, and location in a highly developed area within the Sunnyside Brook watershed, considerable attention is focused on the project. Jeff is providing expert testimony to address water quality, stormwater management, streams, wetlands, and soil erosion.

Vermont Gas Systems – Addison Natural Gas Project Phase 1

Vermont Gas Systems is constructing a 43-mile extension to its existing transmission pipeline as well as associated infrastructure and local distribution networks to expand gas service from Chittenden County to Addison County. VHB was enlisted by VGS to provide environmental regulatory support for the project through field assessments of resources along the pipeline route, regulatory coordination, and preparation of state and federal natural resource permit applications and support for the Vermont Section 248 review. VHB also provided environmental oversight and permit compliance services during the construction phase of the project. Jeff was VHB's project manager with oversight of all aspects of VHB services on this project.

First Wind LLC, Sheffield Wind Farm Project, Sheffield Vermont

With Jeff as Principal-in-Charge, VHB provided assistance for construction and operational phase stormwater permitting to First Wind, for the proposed wind farm project in Sheffield, Vermont, consisting of 16 turbines with a project capacity of 40 MW. As the applicant modified the project through the course of Section 248 review, VHB evaluated changes in potential project impacts to meet Vermont Department of Environmental Conservation permitting requirements. VHB completed a detailed field reconnaissance and initial watershed resources assessment, utilizing existing information and available GIS mapping to prepare an extensive resource base map. Based on the results of these studies, Jeff prepared pre-filed testimony which has been filed with the Public Service Board as evidence in the Section 248 review and permitting of the project. VHB provided inspection services during construction, and the wind farm has been complete and operational since 2011.

Shelburne Transload Facility, Shelburne, VT

Working with Vermont Rail Systems (VTR), VHB completed site/civil layout and design, and environmental permitting for this 80,000-ton salt transload facility located adjacent to the VTR mainline in Shelburne, VT. This included developing a project design that respected the site constraints and limitations, and addressed VTR requirements for phasing as project development moved forward. VHB's Project Team served as the trusted technical experts for VTR through challenging review processes for NPDES Construction Stormwater and Multi-Section General Permit applications. Jeff oversaw VHB's environmental permitting efforts for this project, and provided expert witness testimony on behalf of VTR in U.S. District Court.

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