Docket No. _____
Exh. TDI-JAN-1

Jeffrey A. Nelson, CPESC, CPSWQ

Director, Energy and Environmental Services

Mr. Nelson is director of energy and environmental services in VHB's North Ferrisburgh, VT office. He provides overall management and strategic planning for environmental projects that the firm conducts and provides technical support for engineering and land development projects, as needed. Mr. Nelson 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.

29 years of professional experience

Representative projects:

Addison Natural Gas Project – Phase I

Vermont Gas Inc. (VGS) proposed an expansion of gas service from Chittenden County to Addison County by constructing a 43-mile extension to its existing transmission pipeline as well as associated infrastructure and local distribution networks in Middlebury and Vergennes. VHB was enlisted by VGS to provide environmental support for the project through field assessments of resources along the pipeline route, regulatory coordination, preparation of natural resource and Vermont Section 248 permit applications, and expert testimony to the PSB to support the issuance of a Certificate of Public Good for the project. Mr. Nelson is the project manager with oversight of all aspects of VHB services and provided expert testimony on this project that is currently under construction.

Addison Rutland Natural Gas Project – Phase 2

Following the anticipated construction of Vermont Gas Inc. (VGS) project to bring natural gas to Addison County in Vermont, VGS has proposed a 23-mile lateral pipeline to provide natural gas to the International Paper Mill in Ticonderoga, New York as well as associated infrastructure and local distribution networks in Cornwall and Shoreham, Vermont. VHB was enlisted by VGS to provide environmental support for the project through field assessments of resources along the pipeline route, regulatory coordination, and preparation of natural resource and Vermont Section 248 and New York state Article VII regulatory review applications. In addition, VHB is preparing the relevant Vermont and New York State environmental permit applications. Mr. Nelson is the project manager with oversight of all aspects of VHB services on this project.

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

With Mr. Nelson as Principal-in-Charge, VHB provided the full suite of environmental consulting services for this landmark, high-profile project being undertaken by Green Mountain Power (GMP) in 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 conducted extensive 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 flora and natural community surveys, vernal pool surveys, and mitigation site assessments. Mr. Nelson participated actively in the development of project testimony and preparations for PSB hearings. Working closely with GMP, the project engineer, legal team, and federal and state regulators, often under a pressing schedule, VHB's expert staff members were able to respond to each deadline and numerous challenges to assure the project was permitted and under construction in just over two years.

First Wind LLC, Sheffield Wind Farm Project, Sheffield Vermont

With Mr. Nelson 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

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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, Mr. Nelson 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.

Iberdrola Renewables, Deerfield Wind, Searsburg and Readsboro, VT

With Mr. Nelson 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.

South Burlington Solar Farm, South Burlington, VT

VESCO Energy with Chittenden County Solar Partners LLC proposed a 2.2-MW solar farm on a parcel of land in South Burlington, the largest solar generation facility to-date in Vermont. With Mr. Nelson as Principal-in-Charge, VHB provided integrated services for the development of the proposed project, including due diligence, natural resources assessment, and preparation of Section 248 testimony on behalf of VESCO Energy in support of a Certificate of Public Good, and USACE and Vermont state permitting. VHB also provided stormwater construction permitting services, an Erosion Prevention and Sediment Control Plan, and on-site consultation during construction. The project was approved and began construction less than nine months from inception, and was commissioned in 2011.

Lamoille Valley Rail Trail, St. Johnsbury to Swanton, Vermont

The Vermont Association of Snow Travelers (VAST) enlisted the services of VHB to provide environmental documentation, permitting, design, and construction engineering services for this trail. Spanning the State of Vermont from Swanton to St. Johnsbury, the Lamoille Valley Rail Trail (LVRT) will transform this former rail corridor into an alternative transportation and recreational trail of regional importance. The 93-mile trail will pass through 17 communities and three counties. In Phase A, project definition, VHB completed a comprehensive inventory of natural and cultural resources, developed conceptual trail and bridge plans, and provided National Environmental Policy Act (NEPA) documentation. In Phase B, VHB assisted with the successful attainment of an Act 250 permit, final trail and bridge design, and all remaining permits for the Project. In Phase C VHB is providing construction engineering support services. Mr. Nelson serves as Principal-in-Charge and Project Manager for all environmental and permitting tasks associated with this project.

Education

M.S. Civil Engineering, University of Vermont, Burlington, Vermont, May 1992

B.S. magna cum laude, Geology, University of Vermont, Burlington, Vermont, October 1982

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Certifications

Certified Professional Erosion and Sediment Control (CPESC #2131)
Certified Professional Stormwater Quality (CPSWQ #013)
VT Transco, LLC. (VELCO) Environmental Training Certification
VT Transco, LLC. (VELCO) Safety Training Certification

Professional Affiliations

American Society of Civil Engineers
Green Mountain Water Environment Association
International Erosion Control Association
National Groundwater Association
Vermont Rural Water Association-Associate Member
River Management Society – Northeast Chapter
Soil and Water Conservation Society
Water Environment Federation
Vermont Environmental Consortium
Northeast Chapter International Erosion Control Association
Renewable Energy Vermont