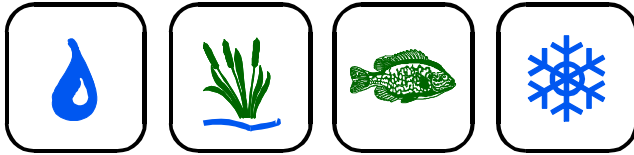


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CONSULTING SCIENTISTS

Jeffrey A. Nelson
Principal/Hydrogeologist

EDUCATION

M.S. Civil Engineering, University of Vermont, Burlington, Vermont, May 1992.
Thesis title - "A Physical Site Characterization of the Bethel-Royalton Landfill in Royalton, Vermont". Course work including surface water hydrology, hydraulics, open channel flow, groundwater flow and contaminant transport, wastewater treatment, land-based disposal of wastewater.

B.S., Magna Cum Laude Geology, University of Vermont, Burlington, Vermont, October 1982.

ADDITIONAL ADVANCED STUDY

- Stormwater in Cold Climates Conference, Portland, ME (November 2003)
- Recent Developments in Stormwater Regulation in Vermont, Montpelier, VT (May 2003)
- International Erosion Control Association, 33rd Annual Conference, Orlando, FL (February 2002)
- Participant in "The Stormwater and Sprawl Connection - Designing Water-Smart Towns in the Lake Champlain Basin", Shelburne, VT (May 2001)
- TMDL Science Issues Conference, St. Louis, MO (2001)
- Participant in "Northeast Training Workshop-Stream Restoration: Natural Channel Design", Fairlee, VT (May 2000)
- EPA Public Forum on TMDL Regulations in New England, Woodstock, VT (1999)
- Wetlands and Waters Restoration Workshop, "Building Conservation Partnerships with Indigenous Peoples in the Northeast", Hogansburg, NY. (1999)
- International Conference on Hydropower, San Francisco, CA (1995)
- Alternative Waste Water Treatment, Madison, WI (1994)
- U.S.G.S./U.S.N.R.C. Workshop on Research Related to LLRW Disposal, Reston, VA (1993)
- U.S.G.S. Low-Level Radioactive Waste Disposal Workshop, Columbus, OH (1992)
- Computation of Water Surface Profiles for Flood Plains and Bridge Hydraulics (1991)

- Interpretation of Soil Characteristics and Soil Color (1990)
- Soil Absorption of On-Site Wastewater (1989)
- Practical Applications in Groundwater Models, NWWA (1984)
- Water Well Hydraulics, University of Wisconsin, Madison, WI (1983)

PROFESSIONAL EXPERIENCE

Principal/Hydrogeologist -1996 to Present, Pioneer Environmental Associates, LLC. Vergennes, VT.

Founder of environmental consulting firm providing services in applied hydrology and hydrogeology, habitat assessment and natural resource management. Responsible for all aspects of project management and completion. Areas of specialization include hydrologic and hydraulic modeling, groundwater source development, hydrogeologic evaluation of wastewater disposal sites, stormwater runoff modeling, evaluation and management, flooding analysis/water surface profiles, surface water availability and habitat analysis for snowmaking and domestic supply, and related environmental permitting and compliance evaluations for site construction, utility line construction, and proposed developments. Provide testimony to various State Boards and Courts, Legislative Committees and numerous municipal boards.

Hydrogeologist - 1982 to 1996, Wagner, Heindel, and Noyes, Inc., Burlington, VT

Supervision and implementation of investigations, including instream flow studies, groundwater supply, surface water assimilative capacity, landfill investigations, stormwater analysis, flood studies, and wastewater disposal studies conducted throughout northeastern United States. Developed and implemented numerical and analytical methods for the evaluation of groundwater flow and contaminant transport. Presented investigation results and interpretation, provided testimony on results of investigations.

Staff Geologist - 1980 to 1982, Wagner, Heindel & Noyes, Inc., Burlington, VT

Worked as a field geologist on hydrogeologic investigations throughout Vermont. Supervised soil drilling and monitor well installation efforts. Performed analysis of field data and developed several computer programs in Basic, Fortran, and Pascal.

Field and Laboratory Assistant - 1979 to 1981, University of Vermont Geology Department

Investigated post-glacial lake levels using biologic indicators. Collected, prepared, and preserved sediment cores from Lake Champlain sediments. Performed analyses for pollen and macroinvertebrates.

PROFESSIONAL AFFILIATIONS

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

CERTIFICATIONS

- Certified Professional Erosion and Sediment Control (CPESC #2131)
- Stormwater Quality Specialist (SQS #013)
- State of Vermont Site Technician Type B Certification (#266)

SELECTED PUBLICATIONS AND PRESENTATIONS

- Speaker/Instructor at the Environmental Permit Training Program, Primmer Piper Eggleston & Cramer PC, held at the VELCO Board Room, Rutland. February 13, 2006.
- Speaker at the “Storm Water Regulation Seminar”, Lorman Education Services. Burlington, VT. June 17, 2005.
- Panelist in Symposium “The Current Controversy Regarding TMDLs: Contemporary Perspectives” held at Vermont Law School. South Royalton, VT March 2002.
- Speaker at New England Interstate Water Pollution Control Commission’s 10th Annual Nonpoint Source Meeting. “Getting Practical about NPS TMDLs in the Northeast”. Woodstock, VT. May 1999.“
- “Evaluation of Potential Alternative Minimum Flow Limits”, 1994.
- “Summary of Facts Related to Water Withdrawal for Snowmaking”, 1992.
- “A Physical Site Characterization of the Bethel-Royalton Landfill in Royalton, Vermont”, MS Thesis, 1992.
- “A Modification to the Hantush Groundwater Mound Solution”, 1986.
- “Practical Applications of Groundwater Models in Vermont”, 1986.
- “Measurement of Stream Flow Using Salt Dilution Methods”, 1984.