



P.O. Box 1482
Burlington VT 05402
802.598.6297
admin@ecosoldesigns.com
www.ecosoldesigns.com

David H. Whitney – Civil and Environmental Engineer

EDUCATION & REGISTRATION

- 2006 **Professional Engineer (PE)**, State of Vermont, Certification No. 8255.
- 2003 **Master of Science**, Department of Civil & Environmental Engineering, University of Vermont. Focus on sustainable wastewater design, natural treatment systems, and phytoremediation.
- 1998 **Bachelor of Science**, Civil Engineering, with an emphasis on Environmental Engineering, University of Vermont, Burlington, VT.
- 1998 **Engineer-In-Training (EIT)**, Certification No. 2729.

WORK EXPERIENCE

- May 2005 to Present – **President and Principal Owner**, of EcoSolutions, LLC which is a design/build company that specializes in the integration of function and aesthetics through the installation of innovative wastewater treatment system technologies such as the Advanced Wetland Treatment System, and other low-impact development strategies.
- June 2003 to December 2006 – **Civil and Environmental Engineer**, at Engineered Solutions, Inc. whose responsibilities include the project management, design and permitting of innovative wastewater treatment systems, environmentally sensitive land development, and low-impact stormwater treatment systems.
- June 2002 to December 2002 – **Project Engineer and Construction Manager**, for the Wetland Research Center (WRC) at the University of Vermont. Responsibilities included project design, coordination, construction management, and facility operation.
- March 2002 – Design of a greywater treatment wetland for La Ecocina Restaurant in Akumal, Mexico.
- July 2001 to September 2001 – **Civil and Environmental Engineer**, Design and installation of a greywater recycling system, Il Castello Di Spannocchia, Siena, Italy.
- March 2000 to September 2001 – **Civil and Environmental Engineer**, Feasibility Study and preliminary design of the Wetland Research Center (WRC) at the University of Vermont.
- November 1998 to December 1999 – **Civil and Environmental Engineer**, Delon Hampton and Associates, Chartered, Rockville, Maryland. Focus on water main rehabilitation for the District of Columbia's Water and Sewer Authority. Performed engineering tasks such as, but not limited to, research, cost estimating, and drafting.

RESEARCH EXPERIENCE

- June 2003 to August 2003 – **Research Assistant**, for the Gund Institute for Ecological Economics (GIEE) at the University of Vermont. Development of an onsite sewage disposal system implementation strategy for non-sewered communities to reduce nitrogen discharge from non-point sources into the Chesapeake Bay.
- January 2000 to December 2002 – **Graduate Teaching and Research Assistant**, Department of Civil & Environmental Engineering, University of Vermont. Developed

the Wetland Research Center (WRC) with a team of research professors from the Department of Civil and Environmental Engineering and the Department of Plant and Soils Science at the University of Vermont. The WRC is an interdisciplinary research cooperative that focused on the treatment of stormwater runoff from dairy farm barnyards, and as well as other high organic and nutrient strength wastewaters. The WRC is located at the University's dairy farm located South Burlington. Additional responsibilities included grant writing to secure more than \$650,000 of funding for the development, design, installation and continued research at the WRC. Concurrently, I developed and conducted laboratory experiments on constructed wetlands for wastewater treatment. Performed water quality analysis, data interpretation, and published results.

December 2001 – **Principal Researcher**, Assessed the performance of several constructed wetlands designed to treat domestic wastewater in the Playa del Akumal, Quintana Roo, Mexico. Work was done in collaboration with the Centro Ecologico Akumal and the University of Vermont.

AWARDS & SCHOLARSHIPS

May, 2006 – **Vice President**, of the Vermont Professional Chapter of Engineers Without Borders (EWB).

May, 2002 – **Graduate Student of the Year**, Department of Civil and Environmental Engineering, University of Vermont.

April, 2001 – **Research Grant**, Lake Champlain Research Consortium, Middlebury, Vermont.

February, 2001 – **SUGR & FAME Scholarship**, University of Vermont.

PUBLICATIONS

Whitney, D., Hayden, N., Hession, W., and Tignor, M. 2001. Developing a constructed wetland center at the University of Vermont. In: Wetland Systems for Water Pollution Control. International Water Association. Buena Vista, FL.

Whitney, D., Hayden, N., and Rossman, J. 2003. Evaluating an existing subsurface flow constructed wetland in Akumal, Mexico. J. Eco. Eng. 20(1): 105-111.

Whitney, D., Hayden, J., Hession, W., and Tignor, M. In review. Effects of supplemental aeration on dairy wastewater treatment efficiency in laboratory-scale subsurface flow constructed wetlands. J. Eco. Eng.