



MIRIAM B. SIELBECK, P.G.

EDUCATION:

M.S. Earth Science, 2007, Dartmouth College, Hanover, New Hampshire
B.S. Geology & Elementary Education, 2004, Vanderbilt University, Nashville, Tennessee

PROFESSIONAL LICENSES:

Professional Geologist, North Carolina, Tennessee, and Texas

PROFESSIONAL TRAINING:

40-Hour Training for Hazardous Waste Operations and Emergency Response (HAZWOPER)
8-Hour HAZWOPER Supervisor/Management Training
Boating Education Safety Course, U.S. Coast Guard/TWRA

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS:

Geological Society of America

CURRENT PROFESSIONAL EXPERIENCE: 2007 – Present, **AquAeTer**, Project Geologist

Ms. Sielbeck has over 6 years of experience in environmental studies, specializing in regulatory compliance. She has experience working on Phase I Environmental Site Assessments (report writing and investigation), Phase II Environmental Site Assessments, NEPA screening and reporting Life-Cycle Assessments, and environmental litigation support. Ms. Sielbeck has completed soil sampling and analyses, ground- and surface water modeling, geologic mapping, petrographic analyses, and well installations and monitoring. Additionally, Ms. Sielbeck has performed SARA reporting, led Use Attainability Analysis studies, and assisted with water quality surveys and Total Maximum Daily Load (TMDL) studies.

PRIOR PROFESSIONAL INVOLVEMENT:

2005-2007 Dartmouth College, Hanover, New Hampshire, Teaching and Research Assistant
2004-2005 Vanderbilt University, Nashville, Tennessee, Teaching and Research Assistant

AREAS OF EXPERTISE:

Environmental Investigation

Site Geologic and Hydrologic Characterization
Soil and Groundwater Investigations
Water Quality Monitoring and Modeling
Phase I and Phase II Environmental Site Assessments
NEPA Screening and Reporting
Air Operating Permit, Emissions Inventory
Installation of Monitoring Wells and Piezometers
SWPPPs and Evaluation
SPCC and FRP Plans
SARA Title III Reporting
SARA Tier II Reporting
Compliance Audits
Waste Management
UST Removals
Environmental Management Plans

Biological Studies

Fish Collection
Benthic Macroinvertebrate Collection
Benthic Macroinvertebrate Laboratory
Habitat Assessment
Water Quality Surveys
Use Attainability Analysis
Biological Monitoring

Geomorphologic Analysis

Flood Flow Analysis
GPS Data Collection and Analysis
Stream Surveys with Profile Assessment
Velocity and Bathymetry Profiles
Surfer 8.0
HEC-HMS 3.2
HEC-RAS 4.0
ArcGIS 9.3



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