

Andrew B. Carter
Senior Environmental Scientist

PROFESSIONAL SUMMARY:

Mr. Carter is an environmental scientist with over 10 years experience in environmental consulting, specializing in subsurface remediation, hydrogeology, and water quality. He is responsible for project management and technical aspects of water supply/water quality studies, contaminant investigations, site characterization, and hydrogeologic studies. Prior to joining ASI, Mr. Carter worked as a project manager/scientist for ENSAT and Earth Tech, Inc. His experience includes Superfund remedial action, and RCRA groundwater monitoring, aquifer testing and analysis, water quality studies, hydrogeologic investigations, and groundwater remediation studies,

FIELDS OF EXPERTISE:

Site Assessment/Remedial Investigation
Contaminant Fate and Transport
Aquifer Testing
Groundwater Flow Analysis
Water Quality Management

EDUCATION:

M.S., Environmental Science (Hydrology Specialty), University of Virginia, 1995
B.A., Environmental Conservation, University of Colorado, 1983

PROFESSIONAL TRAINING:

40-Hour OSHA Hazardous Waste Operations and Emergency Response 1998
(Updated Annually)
Adult CPR Annually

PROFESSIONAL AFFILIATIONS:

National Ground Water Association
Water Environment Federation
Virginia Rural Water Association
Sigma Xi Research Society

PROFESSIONAL PROJECT EXPERIENCE SUMMARY:

Performed RCRA Facility Lead Corrective Action at iron foundry including work plan development, field investigation, technical implementation and quality assurance reviews.

Performed pilot tests for remediation of solvent and petroleum contamination in groundwater.

Project Manager for the preparation and submittal of a Groundwater Withdrawal Permit Application for a large residential development in Isle of Wight County, Virginia. The project involved compilation and analysis of local water usage data, 48-hour pump test, data analysis and potential impact modeling, negotiation with state and local regulatory agencies, and technical support for the client in public forums.

Designed and managed several 72-hour aquifer tests for lakefront developments in Orange County, Virginia. Performed data analysis, prepared final reports, and provided technical support at public meetings.

Developed and implemented ranking system for groundwater recharge zones for local government. Researched and compiled literature review of groundwater availability assessment methods and local government initiatives.

Performed 72-hour pump tests for multi-use development in Stafford County, Virginia. Conducted data analysis generated from aquifer tests designed to determine available yield from proposed production wells as well as evaluating the potential for offsite impact.

Assisted with hydrogeologic study in Loudon County, Virginia, that utilized five pumping wells and fourteen monitoring locations during a 48-hr constant drawdown test. Assisted with data collection, data reduction analysis and technical reporting.

Conducted a variety of other hydrogeologic studies throughout Virginia's piedmont with specific responsibilities including; design and coordination of groundwater monitoring plans, data reduction and analysis, quantitative flow modeling, technical reporting, and client support at public meetings. Experience includes conducting an impact analysis on the potential effects of dewatering associated with quarry pits on local groundwater resources.

Completed GIS-based water quality database for National Colonial Historic Park. Performed search and ground verification of contaminant threats to surface water and groundwater of the Park lands. Performed risk assessment for final report development.

Conducted water resources impact assessment of proposed power station including quantitative analysis of watershed safe yield estimate.

Assisted with evaluation of potential quarry pit dewatering impacts on local groundwater and surface water resources. Performed field reconnaissance and surficial site geologic mapping.

TECHNICAL PUBLICATIONS:

Spatial and Temporal Variations in Groundwater Redox Conditions in a Non-Tidal, Coastal Plain Wetland, Final Grant Report, Virginia Water Resources Research Center, 1995.