

## Services Environmental, Inc.

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William F. Daniels

Curriculum Vitae

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### Areas of Expertise

- Geologic and hydrogeologic investigations
- Environmental Visualization System (EVS)
- Numerical analysis and graphical presentation of environmental data
- Aquifer-test data reduction and analysis
- Ground water flow modeling
- Mass flux calculations
- Stream volatilization modeling
- Soil/water partitioning analysis
- Monitoring well design and installation
- Soil, ground water, and surface water sampling
- Soil gas data collection and reduction
- General risk appraisals for site closure permits
- Technical report preparation
- Litigation support
- Project management
- Database management

### Professional Experience

*Services Environmental, Inc.*  
*Phoenixville, Pennsylvania*

Hydrogeologist, 2001 through present.

*Environmental Resources Management, Inc.*  
*Exton, Pennsylvania*

Hydrogeologist 1993 to 2001.

*Department of Geology, University of Delaware,*

Research Assistant, 1991 to 1993.

*Applied GeoSystems, Inc.*

Hydrogeologist, 1991.

*Artesian Water Company, Inc.*

Hydrogeologist, 1989 to 1991.

*Department of Geology, University of Delaware*

Research Assistant, 1987 to 1989.

*E. I. DuPont DeNemours & Co. Inc.*

Hydrogeologist, 1986 to 1987.

## Education

M.Arch., University of Pennsylvania, 2003.

M.S. Geology, University of Delaware, 1993.

B.S. Geology, University of Delaware, 1984.

Health and Safety Trained as required under 29 CFR 1910.120.

## Professional Affiliation

Registered Professional Geologist - Pennsylvania

Registered Professional Geologist - Delaware

## Relevant Experience

- Provided review of ground water recovery system performance for a Superfund site in South Carolina and provided documentation of compliance to the USEPA.
- Used Environmental Visualization System (EVS) to model the relationship between volatile organic compound (VOC) concentrations in soil and ground water and LNAPL thickness in soil for a site closure in New Jersey.
- Used EVS to evaluate distribution of VOC concentrations in soil for a Superfund site in Georgia. State cleanup standards were used to evaluate soil volumes requiring remediation.

- Modeled ground water flow at two sites in Gary, Indiana, to demonstrate ground water recovery system performance. The analytical element TWODAN was used to model the regional aquifer and to simulate ground water flow in the direct vicinity of the site.
- Modeled ground water flow in the vicinity of a landfill in Maryland to evaluate off-site migration of site-related compounds.
- Managed collection of environmental data for site in Mexico City, Mexico. This work was coordinated through an affiliate office in Mexico City.
- Managed an aquifer test in São Paulo, Brazil. The field work was coordinated through an affiliate office in São Paulo.
- Designed and developed a model to evaluate the volatilization of VOCs from a shallow flowing stream for a Superfund site in Maryland.
- Managed the support (5 years) for AOC documentation of the performance of a ground water recovery system in New Jersey.
- Managed the annual evaluation (8 years) of a ground water extraction system for a superfund site in Pennsylvania.
- Evaluated the potential impact of a DNAPL spill on an adjacent property for a site in New York.
- Evaluated Delaware River tidal influences on ground water gradients for a facility in New Jersey.
- Conducted a mass flux calculation for a site in South Carolina to evaluate VOC concentrations in a local creek.
- Performed a Phase II site investigation of an abandoned industrial facility in Marseille, France. The work was coordinated through an affiliate office in Paris, France.
- Performed an aquifer test in Soest, Netherlands to develop hydraulic parameters for remedial design. This work was conducted for an American client and the work was coordinated through affiliate offices in Oxford, England, and Utrecht, Netherlands.
- Conducted an aquifer test at a site in New Jersey to provide data to fine tune a ground water recovery system.
- Provided technical support for several PRPs in settlement negotiations with the USEPA, state agencies, and the Department of Justice for a Superfund site in Massachusetts.
- Provided design support and troubleshooting for a 41-well computer controlled ground water recovery system in New Jersey. Prepared an O&M plan for the operation of the system.
- Developed a methodology to evaluate ground water pH and the associated mass of various acids for a landfill site in New Jersey.

- Evaluated packer test data for a military base in Maryland to determine hydraulic parameters for discrete fracture zones within a bedrock aquifer.
- Conducted a soil gas survey at a vegetable processing facility in central California to evaluate the contribution of a former tenant's site activities to chlorinated solvent concentrations in ground water.
- Developed software used to evaluate the flocculation of colloidal particles in the Hudson River Estuary through computer particle counting of digitized photographs of water samples. This research was used to evaluate the transport of heavy metals in the estuary.
- Provided litigations support for the post-ROD review of an incineration remedy at a Superfund site in Pennsylvania.
- Performed an analysis of ground water flow and potential mass flux of VOCs from the subsurface to the Schuylkill River for a Superfund site in southeastern Pennsylvania.
- Completed ground water flow and containment modeling of injected waste water using a VAX system and CRAY supercomputer. Worked with the development of the computer models used as well as the application of these models to several sites in the Mississippi, Louisiana, and Texas Gulf coast.
- Conducted a numerical analysis to demonstrate containment of a VOC plume for a chemical packaging facility in New Jersey.
- Performed an analysis of well and well field performance for several well fields operated by a water supply company in Delaware to optimize utilization.
- Designed and constructed innovative coring equipment to allow the development of very high resolution subsurface stratigraphy.