



Specialties:

- GIS and database and data management protocol development
- three-dimensional mapping, visualization, and geostatistics
- conceptual site model development
- site investigation and remediation

Education:

B.S., Civil Engineering, Cum Laude, Cornell University,
2002

Professional Registration

Professional Engineer, Georgia, No. PE033235

CAREER SUMMARY

Mr. Siebenmann, a senior engineer based in Georgia has over eight years of experience as an environmental consultant and data management specialist with a focus on database design and management, geographical information systems (GIS), and environmental project management. He specializes in assessing data management needs and designing robust and efficient data management systems. Mr. Siebenmann has extensive experience designing and maintaining environmental databases, conducting data analysis, and developing 3-dimensional visualizations.

Mr. Siebenmann's project experience encompasses site characterization program development and management, data analysis and visualization, fate and transport modeling, and risk assessment. His field work and project management responsibilities include comprehensive work plan development, authoring of planning documents, development of remedial designs, and management of soil, groundwater, sediment, surface water, and soil gas sampling programs, and analysis and interpretation of data.

Mr. Siebenmann has managed large and complex data management systems for U.S. EPA Superfund sites. For example, he was the engineer responsible for the remedial design of a seven-acre Solid Waste Management Unit (SWMU) for a CERCLA-regulated site in Moundsville, West Virginia. As part of this design he performed 3-dimensional interpolation of analytical chemistry data (more than 2 million records) to optimize the excavation of the SWMU. This data optimization saved the cost of excavating 50,000 cubic yards of soil.

Mr. Siebenmann developed an automated reporting tool to create customized data screening reports for a human health risk assessment of several hundred residences potentially impacted by historical industrial activities for a client in the southwestern U.S. The report tool drew upon several hundred thousand analytical records and increased the efficiency of generating reports by over fifty percent compared to traditional methods.

At an ash disposal site in Tennessee, Mr. Siebenmann developed a web-based real-time data instrumentation portal designed to remotely monitor water levels and settlement of soil from an array of vibrating wire piezometers. The secure portal allows the client to monitor the development and dissipation of pore pressures in the foundation materials, as well as to assess the vertical deformations of the foundation materials in response to the loading imposed by filling within the site. The use of automated monitoring represents a significant cost savings compared to conventional manual methods.