

Pascual Benito, PhD

Project Statistician & GIS/Web-Based Data Management

Dr. Benito has 14 years of experience performing environmental data analysis in support of site investigations. He will perform statistical evaluations and data visualization of soil and groundwater monitoring data in accordance with the methodologies in place from EPA and NDEP regulatory guidance. He has extensive experience in statistical analysis and visualization of environmental data, including geostatistical analysis, univariate and multivariate analysis methods, uncertainty analysis, probabilistic modeling, and both parametric and non-parametric hypothesis testing using industry standard software tools such as MATLAB, R, MINITAB, MS Excel, and ArcGIS Geostatistical Analyst .

Dr. Benito will perform plume delineation and capture zone analysis in support of remediation efforts. He has expertise in subsurface fluid flow and contaminant transport modeling using MODFLOW, MODPATH, MT3D, and RT3D with Visual Modflow, PMWIN PRO and GMS. He has carried out large-scale modeling investigations to assess the risks posed from multiple plumes from industrial facilities and groundwater pumping test analysis using Aquifer and AQTESOLV, as well as developing in-house software tools for pump test and capture zone analysis using MATLAB and MS Excel.

Dr. Benito has experience in data management with ArcGIS, Microsoft Access and SQL database systems. He has managed the development and deployment of web-accessible, GIS enabled environmental information systems for use in multi-stakeholder projects so that environmental information is easily and securely reported, transferred, and disseminated between project stakeholders.