

Douglas F. Wolf, P.E. **PRINCIPAL ENGINEER / OWNER**

EDUCATION: B.S., Civil Engineering, Dec. 1988 – University of New Mexico

REGISTRATION: Professional Engineer, New Mexico #12341

IRIA Level II Swiftwater Rescue for River Professionals (USSHNMS2-08-0004)

PROFESSIONAL AFFILIATIONS: American Society of Civil Engineers,

National Society of Professional Engineers

Mr. Wolf is Principal Engineer and Senior Project Manager for Wolf Engineering. He has been project manager or principal engineer on projects involving **surface water hydrology**, habitat restoration, flood hazard delineation, design of hydraulic structures, **river mechanics**, **channel morphology**, **hydrographic data collection**, and **sediment transport**. He has served as consultant or/and project manager on projects for the U.S. Army Corps of Engineers, Bureau of Reclamation, Indian Health Service, Natural Resources Conservation Service, and U.S. Fish and Wildlife Service, as well as numerous local governments and consulting firms. He was office manager and senior hydraulic engineer with Tetra Tech for 4 years before leaving to work full time with his own firm. His experience in hydraulics, hydrology, and geomorphology includes: flood hazard prediction; hydraulic analysis of flood containment structures; design of mitigation measures; watershed rainfall/runoff simulation; dam safety analysis and studies; hydrographic data collection; stream gage analysis; post-event flood damage assessment; **erosion and scour analysis**; **sediment continuity analysis**; and computer simulation of water floods, and debris flows. Prior to becoming a consultant in 2001, Mr. Wolf was a senior hydraulic engineer with the Corps of Engineers, Albuquerque District. He successfully completed numerous water resources projects during a twelve-year tenure at the Corps.

Mr. Wolf has gained a unique perspective on the Rio Grande and other southwestern rivers, streams, and arroyos by having participated in, and **servicing as principal-in-charge, on numerous hydrographic data collection projects** between Otowi Bridge and Elephant Butte Reservoir. This field experience along with significant FLO-2D and HEC-RAS model development on the same reaches give him a strong knowledge of river mechanics and river response to varied hydrologic and geomorphic conditions. In addition, he has vast experience in manipulating digital data and post processing complex computer model results providing stakeholders clear, concise, eye appealing results and presentations. Mr. Wolf is familiar with and has experience applying; criteria, methodology, regulations, and design guidance from the Corps of Engineers, Bureau of Reclamation, Natural Resources Conservation Service and the New Mexico State Engineer's Office.

Mr. Wolf is known for his responsiveness and pro-active approach to problem solving, as well as his unsurpassed technical ability in surface water hydrology, fluvial geomorphology, civil engineering design, problem solving and creative methods of cost effective and efficient resolutions to water resource engineering challenges. He is proficient with HEC-HMS, HEC-GeoHMS, HEC-RAS, HEC-GeoRAS, FLO-2D, SAMwin (Hydraulic Design Package for Channels), Microstation, InRoads, , ArcGIS, and many other civil engineering/water resources software packages.

Within the past five years, Mr. Wolf has completed flood and erosion analyses for the Indian Health Service at Zia Pueblo, Laguna Pueblo, Acoma Pueblo, and Santo Domingo Pueblo. These studies were completed in support of the design and siting of potable water and wastewater infrastructure. Each of these studies required in field data collection, hydrologic and hydraulic modeling, and sediment transport and sediment continuity analysis. **Mr. Wolf successfully used SAMwin, as well as the new (ver. 4 and 5) sediment transport features in HEC-RAS to complete the erosion potential analyses required at the sites.**