

JAMES F. SCAIEF, P.E., P.G.

Position/Title: Managing Engineer

Registration: Texas Professional Engineer, License No. 54777
New Mexico Professional Engineer, License No. 13122
Texas Professional Geoscientist, License No. 112

Education: B.S. Engineering Science, University of Texas at Austin (1972)
B.S. Geology, University of Texas at Austin (1984)

Employment History: Murfee Engineering Company, Inc. (1983 - Present)
Western Geophysical Company of America (1980 - 1983)
Stevens, Thompson, and Runyan, Portland, Oregon (1975 - 1978)
U.S. EPA, Corvallis, Oregon (1974 - 1975)
University of Texas Center for Research in Water Resources (1973)

Specific Project Related Experience:

Jim Scaief is the Managing Engineer in charge of hydrologic and hydraulic projects for Murfee Engineering Company. His specific project related expertise includes hydrologic and hydraulic analysis and stormwater quality planning, analysis and design. During his last 24 years with Murfee Engineering, Mr. Scaief has had the responsibility for either review or completion of all major MEC hydrologic and hydraulic related projects. These range from grading and drainage for site development, street and major highway drainage systems, floodplain determination, to regional stormwater detention systems. As project manager, Mr. Scaief has permitted numerous projects with local and statewide jurisdictions. Mr. Scaief's experience in water quality began with his work with Mr. Murfee on the Coastal Zone Management Program in 1973 and continues with the analyses and design of systems using BMP's for the treatment of stormwater runoff. He has designed several dozen water quality ponds ranging in type from sedimentation-filtration, extended detention, peat sand filters, wet ponds, and retention-irrigation systems. In addition to structural controls, Mr. Scaief has designed stormwater systems utilizing solely vegetative practices to meet regulatory requirements. He has prepared numerous Water Pollution Abatement Plans as part of TCEQ requirements for development over the Edwards Aquifer Recharge Zone. These include both temporary and permanent measures for non-point source pollution control. Mr. Scaief has used his geological background as well as his status as a licensed professional engineer to complete all phases of the Water Pollution Abatement Plans, including the geologic assessments. Mr. Scaief has served on several technical advisory committees including that for the Lower Colorado River Authority's (LCRA) Non-Point Source

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Pollution Control Ordinance, the City of Austin's stormwater monitoring program, and the September 1, 2000 U.S. Fish and Wildlife Service Recommendations for Protection of Water Quality of the Edwards Aquifer. Mr. Scaief provided major input, including much of the writing of the USFWS document and was instrumental in maintaining the schedule. In 2002, Mr. Scaief was on the committee that revised the September 1, 2000 document. Mr. Scaief has prepared and gained approval from the USFWS numerous water quality plans for developments proposed in the Edwards Aquifer Recharge and Contributing Zones. In addition to the design of the more conventional BMP's for the treatment of stormwater runoff, Mr. Scaief has designed several innovative systems for the LCRA General Office Complex which included both new construction and retrofitting of existing structures for stormwater treatment. More recently, Mr. Scaief has assisted in the development of LCRA's Highland Lakes Watershed Ordinance Water Quality Management Technical Manual. Mr. Scaief, working with Mr. Murfee, developed Biodetention, an innovative water quality BMP, the details of which were published in a technical journal. Mr. Scaief has worked extensively with biologists in gaining approval of nationwide permits from the U.S. Army Corps of Engineers. Mr. Scaief, along with Mr. David Malish, also of Murfee Engineering, has completed all of the Wildland Hydrology of Pagosa Springs, Colorado, courses dealing with river morphology, river assessment and monitoring, and river restoration and natural channel design. The knowledge gained from these courses provides Mr. Scaief with a unique perspective in drainage design. Mr. Scaief has applied his knowledge of hydrology to water balance and effluent storage calculations, and nitrogen balance calculations for wastewater land application permits from the TCEQ.