
William Wimberly, P.G.
GEOLOGIST, LICENSED WELL DRILLER
BURNSVILLE, NC

RECENT WORK HISTORY: Work as an independent geologist/project manager/construction and drilling supervisor on various environmental, engineering, and drilling projects. Heavily involved in coal ash assessment and remediation work at coal fired electric power plants over the past five years. Extensive experience in deep bedrock well installation, packer testing, and core logging utilizing various drilling technologies. Drilling oversight and supervision for a variety of regional and national well drilling contractors. Construction oversight at a variety of sites where groundwater and soil remediation occurred. This experience provides a unique combination of geological, environmental, supervisory, and drilling expertise.

REFERENCES: Reputable and verifiable references from environmental/engineering/drilling companies and industry provided upon request.

EDUCATION: B.S., Geology, Univ. of South Carolina
M.S., Geology, Univ. of Mississippi

**CERTIFICATIONS/
REGISTRATIONS:**

Professional Geologist, South Carolina, #906
Professional Geologist, Tennessee, #562
Professional Geologist, Kentucky, #175
Professional Geologist, Virginia, #1046
Professional Geologist, Alabama, #1444
Professional Geologist, Mississippi #0945
Professional Geologist, North Carolina, #1511
Professional Geologist, Arkansas, #3024
Professional Geologist, Texas, #15459
Licensed Well Driller – A Level, South Carolina, #1311
Well Contractor License – A Level, North Carolina, #3876 A
National Groundwater Association (NGWA) Certified Well Driller
Licensed Real Estate Broker, North Carolina, South Carolina

TRAINING: OSHA 1910.120 40-Hour HAZWOPER Training
OSHA 1910.120 8-Hour Annual Refresher Training
OSHA 1910.120 8-Hour Supervisor Training
OSHA 30 Hour Construction Safety Training
Hydrogen Sulfide Safety Training
PEC Safety Training for Access to Oil Field Sites
Blood Borne Pathogens in the Workplace Program
Duke Energy Power Safe Training
HESS UBU Induction & North Dakota Safety Orientation
GET Training and Badging at DOE Savannah River Site

Radiation Worker II Training at Savannah River Site

WORK HISTORY:

1999 – Present Environmental geologist/hydrogeologist, licensed well driller, construction manager and FEMA Disaster Building Inspector

Environmental and geological work including groundwater contaminant assessments and remediation, well drilling projects utilizing various technologies, and construction oversight.

Remedial actions have included soil dig and haul projects, the construction of soil vapor extraction/air sparging systems and numerous projects involving the subsurface injection of various oxidizers, reductive de-chlorination compounds, and catalysts. These remedial actions have been accomplished throughout the United States and internationally.

Well drilling projects have included construction of monitor and water production wells of various size, depth, and specification; use of direct-push equipment, and construction of water wells throughout the Carolinas and in New Mexico. Bedrock characterization through use of competent rock coring (HQ, NQ, PQ) and packer testing has recently been performed in the Piedmont of North Carolina. Petroleum production well rehabilitation and stimulation projects have been performed in the West Texas and New Mexico Permian Basin fields.

Work in Florida as a residential building inspector in the wake of four hurricanes. Employed by a large environmental/engineering company that was contracted by FEMA to do these inspections and analyze and assess damages.

Recent projects include:

North Carolina – Shallow subsurface and bedrock characterization at coal-fired power plants in the Piedmont of North Carolina to delineate the extent of coal ash and related contaminants. This included characterization of saprolite and bedrock through the logging of wells of varying depths, collection of analytical samples, and performance of various aquifer tests including discrete interval packer testing. Wells were logged according to ASTM standards. Field classification, Rock Quality Designation and recovery rates were recorded for all core runs. Deep bedrock wells were screened based on packer testing results. Work also included drilling supervision and technical oversight.

New Mexico – Supervision and oversight of the construction of a deep production water well at the NASA White Sands Missile Testing Facility near Las Cruces. The 600 feet plus well was screened in rhyolite alluvium beneath the New Mexico desert and produced copious quantities of water for use at the facility.

Mississippi – Work as a Licensed Professional Geologist at a former petroleum refinery and storage facility. Work includes assessment of soil and groundwater for hydrocarbon and metals impact, post-closure groundwater sampling, and preparation of reports and RCRA Part B Permit renewal for submittal to the State and EPA Region 4.

North Dakota – Oversight of a large-scale dig and haul operation to remove petroleum contaminated soil impacted by an oil field release. This project occurred during the coldest part of winter in the Bakken Formation oil fields of northwestern North Dakota. It was performed for a major oil company. This work required special procedures to account for the extreme cold and oil field safety certifications/protocols.

North Carolina – Site Supervisor of well development, drilling, and sampling crews at multiple electrical power plant facilities in North Carolina. The work at each of these facilities was associated with groundwater studies related to coal ash contamination. Work included oversight of personnel, coordination with client's onsite representatives, quality control, enforcement of safety standards, and daily report submittals.

South Carolina – Technical oversight of deep monitor well (400-500') construction at the Department of Energy Savannah River Site (SRS). Work involved installation of wells via sonic drilling, required for a large-scale ground water assessment project. Additional work at SRS has included groundwater assessment around oil/solvent seepage basins and coal ash disposal basins.

North Carolina – Drilling oversight and serving as driller of record on a thermal treatment remediation project at the ABC Cleaners Superfund Site in Jacksonville, NC. This high-profile project involved the advancement of boreholes utilizing rotasonic drilling to facilitate installation of steel piping for subsurface heating and stainless steel soil vapor extraction wells in a nested arrangement. The nested wells included both vertical and varying angled advancements.

South Carolina – Work as a Licensed Professional Geologist on a Targeted Brownfields Assessment site for a major university in the upstate of South Carolina. The project included subsurface sampling of soils, groundwater, and suspect Asbestos Containing Materials (ACM) at an industrial facility. The project was coordinated with, and the report submitted to the U.S. Environmental Protection Agency, Region 4, Atlanta, GA, and the South Carolina Department of Health and Environmental Control.

North Carolina – Performance of 43 Phase I Environmental Site Assessments required in conjunction with property transfers. All work was done under rigid deadline requirements and according to ASTM Practice E 1527-05 – All Appropriate Inquiry specifications.

South Carolina – Work at multiple Underground Storage Tank (UST) sites, Above Ground Storage Tank (AST) sites, bulk storage and distribution terminals, and pipeline facilities for a major petroleum marketing company involving tank removals/decommissioning, ground water assessment and remedial actions, and facility upgrades.

North Dakota – Environmental assessment and remediation of various petroleum releases from pipeline networks. The work occurred throughout the Bakken Formation oil fields of Northwestern, North Dakota. The work required extensive safety procedures and oil field safety certifications.

South Carolina – Groundwater and surface water sampling and field support at the Cone Mills Superfund Site in Greenville, South Carolina.

North Carolina – Collection of groundwater samples from wells screened at varying intervals within the Upper and Lower Black Creek Aquifers for a wide range of analytes at the Aberdeen, North Carolina Contaminated Ground Water Superfund Site.

Midland/Odessa, Texas - Worked as a down-hole tool technician with various well stimulation and rehabilitation tools supplied by Wavefront Technology. Projects included the rehabilitation of oil field production wells to increase petroleum yield and quality. The state-of-the art pulsating jet tools are utilized to remove scaling, paraffin, and sediment from wells and enhance the flow of petroleum through the formation.

Brussels, Belgium – Acted as technical advisor and representative for Wavefront Technology's Sidewinder injection tool. The Sidewinder tool was used for the in-situ injection of chemical oxidizers (ISCO) and catalysts at a military installation contaminated with polycyclic aromatic hydrocarbons.

North Carolina – Oversight of monitor well drilling and definition of hydrocarbon plumes at various North Carolina State Lead trust fund sites throughout Western, North Carolina

Queens, New York – Acted as technical advisor and representative for Wavefront Technology's Sidewinder injection tool. The Sidewinder tool was used to hasten the injection of water to create a hydraulic gradient in order to concentrate free product for recovery at a major oil company petroleum storage and distillery site.

Ohio – Managed large construction project to construct a wastewater treatment plant for the collection and buffering of low pH runoff from coal storage. Project took place at railroad terminal and harbor facility on Lake Erie. Project scope included the construction of multiple buildings, treatment tanks/vessels, and extensive piping. Duties included oversight of subcontractors, quality control, health and safety adherence, and coordination with client and engineering company.

Florida – Management of large soil removal project involving excavation and treatment of 8,000 tons of petroleum contaminated soil. Duties included supervision of subcontractors, confirmation sampling, project documentation, and coordination with client and regulatory agency.

Iowa – Acted as technical consultant during ISCO injections in low permeability glacial till formations at two sites. Achieved unprecedented success in dispersion of oxidizers.

WORK HISTORY CONTINUED:

1988 - 1999 Senior Hydrogeologist and Principal, TET Environmental Services, Columbia, SC: As the senior/principal geologist and drilling services manager, I was responsible for all aspects of hydrogeological and technical projects, as well as drilling services. Areas of expertise included underground storage tank system construction and testing, Phase I Environmental Site Assessments, RCRA facility compliance and groundwater investigations, landfills, performance of UST groundwater assessments and remediation for payment through the State SUPERB Fund, and environmental drilling. Dailey duties included senior management of all environmental projects, direction of drilling division, senior review of all technical documents, supervision of staff of 35 professionals, and management of financial aspects of the business.

1985 – 1988 Hydrogeologist II, III, IV and Manager of the Underground Storage Tank Program with the South Carolina Department of Health and Environmental Control, Columbia, SC: I worked in various regulatory programs to protect the waters of the State from contamination.

As Hydrogeologist II: Maintained the integrity of the State's groundwater threatened by landfills, industrial, and agricultural facilities. Specific job duties included review and comment on groundwater quality assessment and remediation plans and reports, inspection of facilities, and oversight of monitoring and remedial projects throughout South Carolina.

As Hydrogeologist III: Within seven months of my hire date, I was promoted to Hydrogeologist III. Duties included enforcement of groundwater requirements of the South Carolina Hazardous Waste Management Regulations (R.61.79) as they pertained to RCRA regulated facilities. This position required review and comment on groundwater reports and Part B operating permits and inspections of RCRA regulated facilities. Duties also included serving as technical expert in enforcement actions.

As Hydrogeologist IV: Within 15 months of my hire date, I was promoted to Hydrogeologist IV and Manager of the Underground Storage Tank Program. Duties included writing regulations pertaining to underground storage tanks, permitting new tank system construction, coordination with the EPA regarding Program Primacy, oversight of all groundwater investigations and remediation in South Carolina related to petroleum releases, staff supervision, direct reporting to Division Director/ Bureau Chief/ Deputy Commissioner, and enforcement of compliance with the South Carolina Underground Storage Tank Regulations.

CONTACT INFORMATION:

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