



PROFESSIONAL PROFILE



Harold P. Barber, PE, MBA

Principal Engineer

CONTACT INFORMATION

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EDUCATION

BS, Civil (Ocean) Engineering,
Texas A&M University

PROFESSIONAL LICENSES

Registered Professional
Engineer:
State of Texas (PE. No. 79263)
State of Louisiana (PE No.
25928)

EXPERIENCE SUMMARY

Mr. Barber has over thirty-five years of environmental and engineering experience, including Principal Engineer at Roux (2024-Present); Vice President at Civil and Environmental Consultants, Inc. (2019-2024); Director, Asset Management for Environmental and Energy Services Division (2015-2019), Director, Engineering and Environmental Management (2012-2015), and area Environmental Manager (2009-2012) at Republic Services, Inc.; Vice President at Tolunay-Wong Engineers, Inc. (2003-2009); Senior Engineer at Fugo-McClelland Marine Geosciences, Inc. (1989-1991; 2000-2003); and numerous positions at Waste Management (1991-2000).

TECHNICAL SPECIALTIES

Mr. Barber’s technical specialties include capital budgeting, capital management, asset management, engineering, construction, contact management, and environmental management.

REPRESENTATIVE PROJECTS

- Championed full lifecycle geotechnical, geo-environmental, oil and gas permitting and solid and hazardous waste landfill projects in Texas and Louisiana, for the solid waste, oil and gas, public sector, manufacturing, and power industries.
 - Maintained accountability for direct P&L performance of assigned operations by allocating resources and supervising department of professionals focused on engineering projects.
- Managed team of professionals responsible for executing capital projects for \$20M-\$25M EBITDA division, offering disposal services in the upstream and downstream markets throughout United States.
 - Developed, implemented, and monitored annual capital budgets, leading team to offer analysis, recommendations, and conclusions for operational effectiveness that led to approximately \$1M-\$2M cost savings and direct P&L impact.
 - Established engineering strategy for future capital allocation requirements by developing long-term budget strategy and financial model that eventually calculated amortization rate for overall assets.
 - Interfaced directly with regulatory agencies (LDNR, LCEQ, TCEQ, TRRC, etc.) regarding permitting and compliance issues, eliminating delays and maintaining compliance to avoid asset impairment, potential fines, and consent orders;
 - Through the Louisiana Department of Natural Resources, permitted, operated, and constructed modifications to the CECOS International injection well in Willow Springs, Louisiana;
 - Permitted, managed, and operated thirteen SWDs (saltwater disposal wells) in Texas, Wyoming, Louisiana, and North Dakota; and
 - Performed due diligence on Class I wells targeted for acquisition in southeast Texas. Due diligence efforts included reviewing existing permits, analyzing the customer base, reviewing the existing well construction, and offering recommendations and conclusion including future capital and operational expenditures.
- Directed compliance and operational strategy in Western and Southeastern United States markets for fortune 500 solid waste management company. Oversaw team of 31 regional and area staff. Developed annual capital budgets valued at approximately \$100M.

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 - Led collaboration of multi-disciplinary team on development of research and referrals for enhanced operations, achieving significant capital and operational cost savings estimated between \$3.5M and \$4.5M.
 - Evaluated environmental and capital risks for company assets in region, resulting in reduction in environmental liability and more efficient management of capital expenditures across region, and ultimately companywide.
 - Appraised current and proposed codes, standards, regulations, and guidelines, effectively determining impact on current and future operations and projects.
- Managed environmental project activities across South-Central United States, including planning, organizing, directing, and reporting for assessments, site investigations, feasibility studies, permitting, and construction.
 - Created compliance strategy that met federal, state, and local regulatory requirements, liaising with state and federal agencies regarding permitting and compliance issues.
 - Assessed environmental risk of activities at operating sites, providing advice on potential impacts and appropriate action.
 - Mobilized team to develop system reducing accepted ammonia content at Golden Triangle Landfill in Beaumont, TX, eliminating surcharge to City of Beaumont for remediation and achieving savings of approximately \$1.2M annually in operating costs.
- Developed, rolled out, and directed capital budgets for corporate office, long-term engineering budget models that attained approval for projects scheduled to be completed in upcoming years.
- Championed full lifecycle geotechnical, geo-environmental, and solid and hazardous waste landfill projects in Texas, Louisiana, Russia, and Saudi Arabia for multi-disciplined engineering consulting firm headquartered in Houston, Texas.
- Drove engineering projects in Texas, Louisiana, Russia, Western Africa, Trinidad and Tobago, and Mexico. Led marketing, client relations, successful project execution and completion, schedule, budget, and project deliverables.

PUBLICATIONS & PRESENTATIONS

- Barber, H.P., S. Stamoulis, S. Trebus, M. Widner. (2011). Enhancement of LFG Capture from Landfill Gas Extraction Wells at Municipal Solid Waste Landfills. Dallas, Texas. SWANA 34th Annual Landfill Gas Symposium.
- Barber, H.P., (2013), Opening Speaker – SWANA 36th Annual Landfill Gas Symposium, Las Vegas, Nevada.
- Barber, H.P., (2010), Overview of Landfill Gas to Energy Development Projects, Texas China Business Summit, Rice University, Houston, Texas.
- Barber, H.P., (2020), Exploration and Production Landfill Waste Stability, Waste 360/EREF Global Waste Management Symposium, Indian Wells, California.