

Steven G. Strickland, P.E., LEED AP
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EDUCATION AND CERTIFICATIONS

Winyah High School, Georgetown, SC
B.S., Chemical Engineering, 1985, Clemson University
Registered Professional Engineer, SC, NC, GA, FL, TN
Leadership in Energy & Environmental Design (LEED) Accredited Professional
Certified Hazardous Materials Manager, 1988
Certified Asbestos Removal Supervisor, 1988
Certified Visible Emissions Evaluator, 1992
Class D Physical/Chemical Wastewater Treatment Plant Operator, 1992

PROFESSIONAL LICENSES

SC Registered Professional Engineer #13,603
NC Registered Professional Engineer #26,804
GA Registered Professional Engineer #30,474
FL Registered Professional Engineer # 70,535
TN Registered Professional Engineer #113,673
VA Registered Professional Engineer #054,683
SC Licensed General Contractor and Construction Manager
SC Licensed Building Inspector and OSF Chapter 1 Inspector

SUMMARY

Mr. Strickland is an accomplished Engineering Leader with more than 20 years' experience leading cross-functional teams. His experience includes managing large teams and projects covering civil infrastructure, environmental design and permitting, and vertical building construction. He has profit and loss (P&L) responsibilities up to \$4 million and managed teams of up to 56 people located domestically. He has a diverse technical background with more than 30 years of engineering experience, ranging from building design projects, civil infrastructure design (storm water, wastewater, water supply and roads), environmentally sustainable design, coastal zone management, solid waste, hazardous waste and air pollution control. He also possesses significant knowledge in state and federal regulatory programs applicable to private and municipal clients. He manages multidisciplinary design teams for residential, commercial, and industrial projects; including master planned communities and mixed use projects. He has also worked with sustainable design projects, including green building, low impact design (LID) stormwater systems, and created wetland systems for stormwater management. He is a licensed General Contractor and Construction Manager in South Carolina and has extensive knowledge with the design and construction of building structures.

His previous employers included South Carolina Coastal Council (subsequently SCDHEC-OCRM), where he was the Environmental Engineer for the Myrtle Beach office, responsible for review and approval of all storm water permits and Coastal Zone Consistency Certifications for Horry and Georgetown County. He was also the Corporate Environmental Manager for a regional steel manufacturer, including permitting, construction monitoring, and start-up of a new electric furnace facility, as well as air, water, solid waste, and storm water compliance for 15 facilities across the southeast. He was the Base Environmental Coordinator for Myrtle Beach AFB responsible for the development and implementation of pollution abatement projects, coordination of remedial investigation of old waste sites, and design of new hazardous waste storage facilities. He also has extensive experience with the regulation and permitting of solid and hazardous waste facilities in South Carolina as an Environmental Engineer Associate with SCDHEC. Mr. Strickland has been accepted as an expert in Environmental Engineering on subjects including stormwater management, wetlands, and septic systems in South Carolina and United States Federal Courts.

EMPLOYMENT AND EXPERIENCE

1996 - Present, President, The EARTHWORKS Group, Murrells Inlet, SC. Mr. Strickland is responsible for engineering and environmental planning for all projects including the management of the Environmental, Engineering, and Building Design Teams, with the assistance of the individual Team Leaders. His firm provides multi-disciplinary design solutions for public and private sector clients, including land development, site engineering, infrastructure design, wetland mitigation, and vertical construction. His duties include site assessment and preliminary engineering, engineering design, regulatory interface, client consultation, and project communication. He is responsible for negotiating service contracts with clients and maintains P&L responsibility in conjunction with the financial team. He is responsible for bringing in new business via business development and consultative sales with existing clients. He provides strategic direction and leadership for project management, technical support, training and implementation and provides Project Management leadership for new and existing projects.

Typical projects with EARTHWORKS include:

- Building design for new commercial, industrial, institutional and residential projects
- Engineering design for residential, commercial, and industrial projects.
- Stormwater infrastructure improvements for municipalities
- Environmental assessments.
- Environmentally Sustainable buildings
- Wetland delineations, permitting, and wetland mitigation banking.

Queens Harbor Residential Development, Myrtle Beach, SC - The 166-acre Queens Harbor Residential Development is multi-phased featuring master planned storm water, transportation and sewer design. Mr. Strickland oversaw the successful completion of the design, permitting, and construction, including the wetlands and storm water management master plans. In addition, he represented the project before the various local, state and federal agencies for all regulatory permitting since the inception of the project.

Choppee Head Start, Choppee, SC – Mr. Strickland was the Project Manager for the design of a 11,000 square foot preschool facility for Waccamaw Economic Opportunity Council, who administers the Head Start program for Horry, Georgetown and Williamsburg counties. This building design is a template for their future growth, with eight classrooms for children ranging from infants to 5 years, and a lunchroom and kitchen that was expanded to allow community events.

Belle Isle Marina Development, Georgetown, SC – Mr. Strickland was the Project Manager for the marina redevelopment, including permitting for the dredging and dockage design through the Army Corps of Engineers and SCDHEC-OCRM. This project required the removal of over 50,000 cubic yards of sediment from the marina basin, and installation of new floating docks for 82 boats, with a construction cost of over \$1.8M. He was also involved with the civil design of three phases of multifamily and single family development at Belle Isle in the remaining portions adjacent to Winyah Bay.

TEG Office Building, Murrells Inlet, SC – Mr. Strickland was the Project Manager for the design of a 15,000 square foot Class A office facility. This building design was based on environmentally sustainable methods that would reduce the environmental impact during the construction and operation over the life of the building. Green building concepts utilized included recycled materials such as steel framing and post-consumer content carpets, high efficiency lighting and HVAC systems, day lighting and improved air flow control for occupant comfort, and reduced site impact due to pervious parking and grading techniques.

Melody, Floral, and Myrtle Basin Watershed Improvements, Surfside Beach, SC – Mr. Strickland was the Project Manager for the field investigation and design of the drainage improvements of the Melody, Floral, and Myrtle Basins. These watersheds were located in both Horry County and Surfside Beach Town limits, requiring coordination and development of cost-sharing agreements between the two entities. The designs were modeled in ICPR to determine the most cost effective program to meet Town requirements. These projects were completed within the \$3M budget established by the programming.

Santee River Rediversion Litigation, Georgetown and Williamsburg Counties, SC – Mr. Strickland was the Project Manager for the assessment of flooding damages caused by the Santee River Rediversion Project which came online in 1985. Mr. Strickland was a member of the scientific team that provided expert testimony as to the changes in the subject property that were caused by the rediversion of the Santee Cooper lakes into the Santee River. This project included the site assessment of over 35,000 acres of property along the Santee River adjacent to and downstream of the Rediversion Canal as part of a scientific study related to the impacts created by the St. Stephens hydroplant. This assessment included determination of jurisdictional wetlands, river, and groundwater hydrology related to the changes in the riverine system caused by releases from the Rediversion Project. Detailed soil, vegetation, and groundwater data points were collected and analyzed to determine the impacts and changes that developed due to the change in the hydrologic regime and hydroperiod. The acreages calculated by The EARTHWORKS Group were utilized by the Federal Court to establish the compensation for the landowners, which was over \$200 million.

Congaree-Carton Wetland Mitigation Bank, Awendaw, SC – Mr. Strickland was the Project Engineer for design of the wetland mitigation bank owned by Congaree-Carton, including the restoration of wetland hydrology to a previously timbered pine plantation. He was also involved in the permitting for the mitigation bank related to the restoration of the site to a forested wetland. This site is currently operational with an option to develop a second phase underway.

Simpson Creek Watershed Study, Horry County – Mr. Strickland was the Project Manager for the flood study conducted for the Simpson Creek watershed (42 square miles) required to establish 100-year flood elevations. A proposed development site adjacent to Simpson Creek was located in an A unnumbered flood zone, and FEMA regulations required a hydrologic study prior to construction of the residential subdivision. This project was approved by FEMA, resulting in a map change for a FIRM panel in Horry County.

Murrells Inlet Marshwalk, Georgetown County, SC - Mr. Strickland was responsible for the design of the Marshwalk for Murrells Inlet 2020 including design, permitting and construction management. This project consists of over ½ mile of public boardwalk that connects restaurants and marinas and a fishing pier for public recreation. This project is the focal point for community events, including Fourth of July and Halloween celebrations. A second project was completed (Jettyview Walk) nearby to enhance public access in the community.

1993 - 1996, Environmental Engineer, SCDHEC Office of Ocean and Coastal Resource Management (OCRM), Myrtle Beach, SC. Responsible for management of the Planning and Certification Program in the Myrtle Beach Office (Georgetown and Horry County). Duties included review, permitting and inspection of drainage, erosion control, and wetland management designs for all development projects in Horry and Georgetown counties, review of all projects for consistency with the Coastal Zone Management Program, and interfacing with Horry and Georgetown County planning agencies for review of new development projects. Additional duties included representing OCRM at public meetings which involve local projects, inspecting unpermitted activities which are reported and may require enforcement actions, and answering general questions from the public regarding OCRM policies.

Typical projects included:

- Review, permitting and field inspection on large, multiphase residential developments.
- Review of drainage and wetlands management plans at all new golf courses.
- Preparation of environmental impact assessment for septic tanks in the coastal zone.

1990 - 1993, Environmental Engineer, Owen Steel Company, Inc., Columbia, SC. Responsible for management of corporate environmental programs for 15 steel-related facilities, including structural steel fabrication shops, a steel production facility, and a ferrous scrap processor. Duties included preparation of all environmental permits (air, water, solid waste, hazardous waste, stormwater) and coordination with state, federal, and local agencies during the permitting process, identification of waste treatment and disposal options, reporting of program activities to EPA and state agencies, representing Owen Steel at trade organization environmental groups, site inspections, worker training, preparation of contract specifications for environmental projects, liaison with local university on research efforts, and oversight of remediation projects.

Typical projects included:

- Preparation of environmental permits for electric arc furnace facility.
- Development and implementation of operating plan for solid waste landfill.
- Investigation of feasibility and economics of K061 dust treatment options.
- Preparation of group stormwater permits for Steel Joist Institute.
- Design and construction of groundwater remediation system for hydrocarbon release.

1987 - 1990, Environmental Coordinator, Myrtle Beach Air Force Base, SC. Responsibilities included development and management of environmental programs and pollution abatement projects for MBAFB. Duties included supervision of remedial investigations for old waste sites and underground storage tank facilities, development of management system for hazardous waste generation and disposal, and supervision of asbestos removal projects. Additional duties included design of hazardous waste storage facilities, Environmental training for over 1200 troops, member of HQ TAC Environmental Audit (ECAMP) Team, quarterly briefings to base management, and program documentation/reporting to USAF, State, and Federal agencies.

Typical projects include:

- Remedial investigation of closed landfills and fire training areas.
- Underground storage tank removal and replacement.
- Asbestos removal from base facilities.
- Remedial investigation of waste solvent disposal area.
- Construction of hazardous waste bulk storage and accumulation facilities.

1985 - 1987, Environmental Engineer Associate, Bureau of Solid and Hazardous Waste Management, South Carolina Department of Health and Environmental Control (SCDHEC). Responsibilities included permitting of solid waste landfills and hazardous waste facilities in accordance with state and federal regulations. Duties included permit review, site compliance inspections, and technical assistance to permit applicants.

Typical projects included:

- Permit review and issuance for solvent recycling facility
- Permit review and trial burn for a hazardous waste incinerator.
- Review and issuance of solid waste landfill permits.
- Field investigation for preliminary landfill sites.
- Field investigation for unpermitted waste disposal activities.