

Jake Duncan

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PROFESSIONAL EXPERIENCE

Duncan & Duncan Wetland and Endangered Species Training and Consulting, Inc. (D&D WEST), Charleston, SC

Co-Owner, Wetlands, Vegetation & Soils Instructor, Consulting Botanist and Wildlife Biologist, July 2002 - present

- Responsible for instructing all Wetland associated training courses.
- Conducts wetland delineations throughout the U.S.
- Conducts habitat and faunal inventories.
- Conducts surveys for State and Federal listed and candidate species.
- Conducts botanical surveys throughout the U.S.
- Designs and implements wetland creation and/or restoration plans.
- Designs and implements wildlife/land management plans.
- Court recognized expert in wetland delineation, vegetation identification, and hydric soils.
- Sample projects:
 - SCDOT I-26, Dorchester County, SC. Jake was responsible for the wetland delineation on the 6-mile widening.
 - SCDOT Highway 701 Widening, Horry County, SC (on-going). Jake is responsible for the wetland delineation, NEPA documentation, and USACE permit for the highway widening.
 - SCDOT Highway 17 Widening, Beaufort and Colleton Counties, SC. An on-site wetland delineation and endangered and threatened species survey was conducted along the 22-mile, 400-foot right-of-way (ROW). Jake was the lead biologist for the wetland delineation.
 - Atlantic Coast Pipeline project, North Carolina, Virginia, West Virginia. Jake led a team of six biologists to conduct an on-site wetland delineation, endangered and threatened species habitat assessment, noxious weed infestation identification along a 600+ miles, 300' wide ROW.
 - U.S. Forest Service, Savannah River Site, Aiken, Barnwell and Allendale Counties, SC. An on-site detailed vegetation assessment of sand hill restoration plots.
 - Led a six member team and conducted on-site wetland delineation for a 1000+ acre site (Volvo) near Ridgeville, Dorchester County, SC for potential location of future Volvo manufacturing facility.
 - Conducted a systematic on-site survey for relict trillium, was conducted on an approximately 200-acre tract located just north of I-20 and North Augusta, SC. Charleston County Transportation Development, Isle of Palms, SC. Conducted an endangered species survey, completed the associated biological assessment, completed and received a USACE permit for wetland fill for intersection improvements at the Isle of Palms Connector.
 - Daniel Island Shore Restoration, Charleston County, SC. Jake was the Botanist/wetland biologist on call to aid in the proper soils/substrate procurement for the reestablishment of salt marsh along a section of shoreline on Daniel Island.
 - Fairlawn Plantation Restoration, Charleston County, SC. Jake was the lead botanist working with a primary consulting firm, on monitoring the vegetative growth and species composition for a restored wetland area on Fairlawn Plantation.
 - Bird survey (ongoing) on a mitigation property with a comparison of a control property, Dorchester County, SC. Method used is a modified rolling breeding bird survey.

U.S. Army Corps of Engineers, Charleston District - Regulatory Branch/Assessment and Enforcement, Charleston, SC

Biologist, May 1991 – July 2002

- Served as a regulatory specialist for the Environmental Assessment and Enforcement Section.
- Evaluated, reviewed and approved Wetland Delineations, after-the-fact Department of the Army permit applications, compliance and/or enforcement cases for activities in waters of the U.S.
- Assisted in the development of General Permits and Standard Operating Procedures.
- Served as the District representative on groups and task forces and as an expert witness in court cases on permit decisions and/or enforcement actions.
- Served as the Charleston District's representative for the following:
 - Development, implementation, and oversight of the USACE Wetland Delineation Certification Program, which tests and evaluates the abilities of Environmental Consultants implementing the 1987 USACE Manual for Delineating Wetlands.
 - Instructing, coordinating, and disseminating information concerning the Multiple Attribute Recognition System for Hydrophytes (MARSH) - a method for identifying wetland vegetation through the use of a polyclave computer program.
 - Testing, refinement, adoption, and implementation of the National Technical Committee on Hydric Soils (NTCHS) Regional Indicators of Soil Saturation/ Field Indicators of Hydric Soils in the United States, a newly approved method for identifying and delineating hydric soils.
 - Hydrogeomorphic Functional Assessment Procedure (HGM) developed by the USACE Waterways Experiment Station (WES), a method to assess the functions of wetlands to determine viability.
 - Interagency field testing of the proposed revisions to the 1989 Federal Manual for Identifying and Delineating Jurisdictional Wetlands ('91 Manual) and the proposed revisions to the 1987 USACE Manual to Delineate Wetlands ('95 Manual).
 - Issues regarding the NRCS Memorandum of Agreement on Agricultural Lands. This required coordination with four federal environmental agencies, USACE, EPA, FWS, and NRCS, to regulate impacts to wetlands through normal agriculture and silviculture practices.

Law Environmental, Inc. - Charleston Field Office

Wetlands Biologist, June 1990 - May 1991

- Responsible for generating project proposals, preparing, field verifying and producing final reports for submittal to various environmental regulatory federal and state agencies.
- Projects included wetland delineations, wetland permits, mitigation design, conflict resolution, endangered and threatened species surveys, and water quality testing.
- Wetland delineations, permits, and mitigation designs were conducted throughout the southeast, for difficult and controversial delineations/projects in a variety of ecosystems.

U.S. Fish and Wildlife Service - Ecological Services, Vicksburg, MS

Fish and Wildlife Biologist, June 1989 - May 1990

- Responsible for reviewing project proposals for potential impacts to Federally protected species in Mississippi in accordance with the Endangered Species Act.
- Responsible for reviewing permit/project proposals for potential impacts to Waters of the U.S. in accordance Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act.
- Conducted an Advanced Identification on the Pearl River Basin in and around the City of Jackson, MS in conjunction with EPA, and the Vicksburg District Corps of Engineers.

EDUCATION

Mississippi State University, September 1987 - May 1989

Completed course work and thesis research toward Masters of Science degree, Major: Botany

Valdosta State College, September 1983 - May 1987

Bachelors of Science degree, Major: Biology

Andrew College, September 1980 - May 1982

Associates degree, Major: Science