

STOKES ENVIRONMENTAL ASSOCIATES, LTD.

LISA BILLOW Environmental Scientist

Education

Masters Degree, 1996 – *Biology*, West Chester University, West Chester, Pennsylvania

Bachelor's Degree, 1978 - *Environmental Sciences*, Stockton State College, Pomona, New Jersey

Experience

With 18 years experience, Ms. Billow serves as project manager in environmental assessments, planning, permitting and natural/cultural resource management for projects requested by federal agencies, state transportation agencies, municipalities, and private developers. She specializes in performance of environmental investigations, technical reports, and presentations to fulfill the requirements of local, state and federal environmental regulatory programs including: National Environmental Policy Act (NEPA), Clean Water Act (Sections 401 and 404), Coastal Zone Management Act, Chesapeake Bay Preservation Act and due diligence for recognized environmental conditions including hazardous substances or petroleum products. She is a key liaison between the client and regulatory agencies for permit approvals, agency clearances.

Phase I Environmental Site Assessments

Ms. Billow has broad experience in contamination assessment of soils, groundwater, and indoor environments. She has nine years relevant experience. Her experience includes performance of Phase I and Phase II Environmental Site Assessments at a diverse array of commercial, industrial, rural, and other sites. Her relevant experience also includes performance of remedial investigation projects for groundwater and subsurface contamination including: groundwater discharge monitoring for a DuPont Chambersworks site, investigation for petroleum contamination at a Sunoco tank farm, investigation of DDT contamination in groundwater and storm sewer for a Rohm & Haas chemical plant, and investigation for arsenic in groundwater for a Rhone-Poulenc pesticide manufacturing site, and determining metal contaminants of concern in a wetland at a DuPont site. Additionally, she has experience in asbestos consulting for the City of Philadelphia and Philadelphia School District.

Natural Resources

Ms. Billow was a specialist in natural resources at Norfolk Naval Station (NSN) and Naval Amphibious Base Little Creek (NABLC) in harmony with the military mission and in compliance with all applicable laws, regulations, and Navy policies. She is an expert in regulatory compliance, implementation of the US Integrated Natural Resources Management Plan (INRMP), and installation projects. Her duties include forestry and urban landscape design, wildlife, threatened and endangered species, fisheries, dune protection, shoreline protection, range and grounds conservation, soil conservation, wetlands, stormwater management, outdoor recreation, natural resources education, and the preparation of

LISA BILLOW
Environmental Scientist

Page 2

Environmental Assessments for road projects, reservoirs, casinos and other projects.

Her ecological expertise includes wetland mitigation design, best management practices for water quality protection, stream restoration through bioengineering, bioretention ponds, and landscape design and management for wildlife habitat enhancement. She is experienced in wetland delineation, wetland functional assessments, rapid bioassessment protocol, endangered species surveys, interior forest bird habitat evaluations, bird population surveys, and wildlife damage assessments.

Continuing Education

Risk Communication
Environmental Negotiation
Natural Resources Compliance
Low-Impact Development, Horne Engineering
Basic Wetland Delineation, Wetland Training Institute
Wetland Mitigation Design
Innovative Stormwater Design
Bioengineering for Stream Restoration
Erosion and Sediment Control for Plan Reviewers
Landscape Design

A listing of prior employment history, showing dates of employment and last position held, is as follows:

Stokes Environmental Associates, Ltd., Norfolk, Virginia, 2004 - Present, *Project Manager*

Department of the Navy, Navy Public Works Center, Norfolk, Virginia 2001-2001, *Natural Resources Specialist*

Navy Regional Environmental Coordinator, Norfolk, Virginia, 1998-2001, *Environmental Specialist*

Post Buckley, Schuh, & Jernigan, Newport News, Virginia, 1996-1998, *Staff Ecologist*

Hayes, Seay, Mattern & Mattern, Inc., Virginia Beach, Virginia, 1993-1996, *Senior Environmental Scientist*

PAQ, Inc., Norristown, Pennsylvania, 1992-1993, *Wetland Scientist*

Woodward-Clyde Consultants, Plymouth Meeting, Pennsylvania, 1988-1991, *Staff Scientist*

Kaselaan & D'Angelo, Associates, Haddon Heights, New Jersey, 1986-1988, *Technical Writer*

STOKES ENVIRONMENTAL ASSOCIATES, LTD.

Thomas L. Stokes, Jr.
President

Education: Degree(s), Year, Specialization, Institution

M.B.A., 1988, *New York University*, New York, New York
M.S., 1982, Biology, *Old Dominion University*, Norfolk, Virginia
B.A., 1979, Biology, *Hampden-Sydney College*, Hampden-Sydney, Virginia

Registration, Certification, and License: Discipline/Years Registered

Virginia Certified Professional Wetland Delineator #21, 2005-Current
Registered Environmental Manager, REM 5854, National Registry of Environmental Professionals, 1993 - Current.
Hazardous Waste Site Operations and Emergency Response
OSHA 1910.120 Worker and Supervisor Certifications, 1991 - Current.
Asbestos Inspector/Management Planner, 1992 - 1999.
ASTM, Environmental Assessment Committee Member, 1996 - Current.
Virginia Association of Wetlands Professionals, Member, 1996 - Current.
Society of Wetland Scientists, Member, 1992 - Current.

Continuing Education

Wetland Regulatory Seminar, VAWP, 8 hrs, 2008
Watershed Management, VAWP, 8 hrs, 2007
Regulatory Update, VAWP, 8 hrs, 2006
Rare, Threatened & Endangered Species, VAWP, 8 hrs, 2006
Stream Assessment & Mitigation, VAWP, 8 hrs, 2006
Conservation Easement Symposia, ASA, 8 hrs 2004 (SEA), 8 hrs 2005
Environmental Law Courses, American Bar Association, ALI-ABA, William & Mary Law School, ECS, 46 hrs, 1999-2004
National Mitigation and Conservation Banking Seminar, Terrene, 48 hrs, 2002-2003
Advanced Hydric Soils, Virginia Institute of Marine Science, 16 hrs, 2003
Eminent Domain, ALI-ABA, and CLE International Conferences, 32 hrs, 2003/2008
Hydric Soil Function and Processes, Society of Wetland Scientists, VAWP 16 hrs, 2001-2005
Wetland Mitigation: Preservation Seminar, 8 hrs, 2000
Asbestos, Lead-based paint, LNAPL Contamination Assessment/Remediation Courses 156 hrs, 1992-2005
Hazardous Waste Site Operations/Emergency Response Annual 8-hr Updates, 1991-2008
Environmental Regulatory Updates, Environmental Site Assessments, Risk Remediation, Due Diligence and Pollution Prevention and Toxic Release Conferences, ODU, EPA, and Other Courses and Seminars, 276 hrs, 1991-2008
Wetlands Delineation, Soils, Hydrology, Vegetation, Winter Botany, Functional Assessment, Wetland Management, Mitigation, and Regulation Seminars, ODU, VIMS, VAWP, SWS Courses and Seminars, 396 hrs, 1990-2005

Thomas L. Stokes, Jr.

President

Page 2

Experience

Mr. Stokes has over 29 years of progressive responsible experience in the environmental field. Before establishing Stokes Environmental Associates, he performed extensive environmental assessments in Virginia and New York City. He became Chief of Water Quality for the NYC Department of Environmental Protection, and then established Stokes Environmental Associates in his hometown of Norfolk, Virginia. Over a period of 18 years, his firm has completed over 7,000 environmental projects. Mr. Stokes has performed or supervised over a thousand environmental site assessments, as well as hundreds of underground storage tank closures and remediation projects, including dry cleaners, hazardous waste sites, landfills, and other contaminated sites. He has obtained approvals in the Virginia Voluntary Remediation Program, prepared Spill Prevention Control and Countermeasures (SPCC) Plans, performed soil and groundwater assessments, as well as managing asbestos and lead-based paint. Mr. Stokes performed or supervised over 1,400 wetland investigations, including hundreds of completed wetland permits. He has established several wetland mitigation banks, and numerous mitigation sites. Additionally, Mr. Stokes is a leader in development of environmental conservation easements, to enhance economic return from protected properties, while contributing improved environmental conditions at each site. Mr. Stokes has provided expert testimony in eminent domain cases and other litigation. He is active in industry groups, such as the ASTM Committee for developing standard methods for environmental investigations, Virginia Association of Wetland Professionals, and public service organizations.

A listing of prior employment history, showing dates of employment and last position held, is as follows:

- ◆ **Stokes Environmental Associates, Ltd.**, Norfolk, Virginia, 1990-Present/*President*
- ◆ **Department of Environmental Protection**, New York, New York, 1984-1990/*Chief, Water Quality Section*
- ◆ **Hampton Roads Sanitation District**, Virginia Beach, Virginia, 1982-1984/*Water Quality Technician*
- ◆ **Old Dominion University, Biology Department**, Norfolk, Virginia, 1980-1982/*Research Assistant*