

2018-733



STEPHEN C. SWANN, ME, PE
Vice President / Senior Environmental Engineer

YEARS OF PROFESSIONAL EXPERIENCE:

Total: 30
ATM: 24

AREAS OF SPECIALIZATION

- Environmental and Agricultural Engineering
- Water and Wastewater Treatment
- Environmental Impact Assessments
- Environmental Permitting/Compliance
- Water Quality Evaluations

EDUCATION

ME, Environmental Engineering, University of Florida, 1993

BS, Environmental Engineering, University of Florida, 1988

PROFESSIONAL REGISTRATIONS

- Professional Engineer, Florida, 1993, No. 46716

AFFILIATIONS

- Water Environment Federation
- Florida Engineering Society
- Management Advisory Group - Guana-Tolomato-Matanzas National Estuarine Research Reserve
- Commissioner - City of Jacksonville Waterways Commission
- Advisory Panel Member - South Atlantic Fisheries Management Council
- Chair - Jacksonville International Airport Community Redevelopment Area Advisory Board
- Urban Land Institute

SUMMARY OF QUALIFICATIONS

Mr. Swann has extensive environmental and agricultural engineering experience. His areas of expertise include engineering evaluation and design and performing environmental impact assessments in the both terrestrial and marine environments.

Mr. Swann has worked with a variety of municipal, industrial and agricultural clients to develop methodologies and management systems to help assure sustainability and limit environmental impacts of both proposed and existing projects. These efforts required the development of elements such as infrastructure plans, wastewater treatment systems, hydrologic modeling analyses and environmental impact assessments. Many of these efforts required implementation of a variety of site-specific resource management techniques uniquely suited to local environmental, physical and cultural conditions and constraints.

In the role of project manager, Mr. Swann has performed the following services for numerous clients and projects: TMDL and water quality evaluations, NPDES and ground water permitting, design of effluent management systems and nutrient management planning, stormwater and wastewater treatment system design, wastewater reuse systems, wetland system restoration and construction, environmental impact assessments and development of environmental management plans for construction and operational phases of development..

PROJECT EXPERIENCE

Johnston Island Due Diligence, Atlantic Beach, FL: Project manager responsible for completing a due diligence analysis for the City of Atlantic Beach of a 3-acre island on the Atlantic Intracoastal Waterway. This study included an evaluation of flood risks, federal easements, utilities, development limitations and environmental conditions. The study included an analysis of general development issues associated with constructing a waterfront park and boat ramp on the island.

Sand Fencing, Jacksonville Beach, FL: Project manager responsible for the design, permitting and construction administration associated with 7,500 feet of sand fencing. The sand fencing is designed to help to mitigate Hurricane Irma damages by stabilizing the primary dune system in the southern half of the City of Jacksonville Beach's oceanfront. Aerial photographs were obtained via drone to accurately locate fence panels at the seaward toe of the primary dune in a manner that would not inhibit sea turtle nesting activities.

ADA Accessible Dune Walkover Design, Jacksonville Beach, FL: Project manager responsible for the design, permitting and construction administration associated with 7,500 feet of sand fencing. The sand fencing is designed to help to mitigate Hurricane Irma damages by stabilizing the primary dune system in the southern half of the City of Jacksonville Beach's oceanfront. Aerial photographs were obtained via drone to accurately locate fence panels at the



seaward toe of the primary dune in a manner that would not inhibit sea turtle nesting activities.

Hazard Mitigation Grant Program Application, Jacksonville Beach, FL: Project manager responsible for completing a FEMA HMGP application and supporting documentation for the City of Jacksonville Beach to implement mitigation measures to reduce the incidence of coastal flooding along the City's oceanfront. Requested funding will be used to reconfigure 29 beach stormwater outfalls and rebuild and replant the primary dune system adjacent to the outfalls.

Wastewater Treatment Facility Permit Renewal, Lake Butler, FL: Project manager responsible for the evaluation of the operational capabilities of City's WWTF and land application system and preparation of a permit renewal package. The permit renewal included evaluation of ground water quality, request for reduction in monitoring, capacity analysis report and O&M performance report. This evaluation resulted in a reduction of monitoring requirements and a corresponding decrease in monitoring costs for the City.

River to Seas Preserve Stormwater Management System, Marineland, FL: Project manager responsible for the development of stormwater management plan and permitting for a proposed 10-unit cottage development within an existing county park. This project required development of a stormwater management system that utilize natural vegetated buffers to minimize impacts to existing vegetation and retain the natural look of the park area.

Gumbo Limbo Nature Center Seawater Intake System Evaluation & Design, Boca Raton, FL: Project engineer responsible for evaluating the seawater intake system at the Gumbo Limbo Nature Center for the purpose of restoring design flows to this system. A detailed site inspection and hydraulic analysis of the intake system was completed resulting in the development of operational guidelines and point repairs to restore flows. The project also included development of a concept design for replacement of the existing seawater intake and pumping system.

Post-Hurricane Matthew Dune Walkover Damage Assessment, Jacksonville Beach, FL: Project manager responsible for assessing the impacts of Hurricane Matthew on the City's 44 dune walkovers and 29 beach stormwater outfalls. These dune walkovers provide public access to the beach and the beach stormwater outfalls provide flood relief to the waterfront areas of the City. Restoring the functionality of this critical infrastructure required a rapid assessment of damages, development of repair requirements and preparation probable cost estimates. The dune walkover repairs were completed quickly under ATM supervision and a plan for upgrading the beach stormwater outfalls to ease maintenance requirements and maintain level of service was provided to the City.

Post-Hurricane Matthew Dune Walkover & Beach Stormwater Outfall Assessment, Jacksonville Beach, FL: Project manager responsible for assessing the damages of Hurricane Matthew on the City's 44 dune walkovers. These dune walkovers provide public access to the beach and a rapid assessment of hurricane damage, repair requirements and probable cost estimates were critical to the City. This project was completed quickly with the recommended repairs made under ATM supervision.

Eco-Industrial Park and Port Prospectus, St. Marys, GA: Project manager for an investigation of a development concept for a former paper mill site. The concept was that of an Eco-Industrial Park and Port to stimulate manufacturing and transportation job growth. ATM prepared a site prospectus detailing the development opportunity and outlining the concept that balances economic goals with social goals including environmental stewardship.

Elements Marina Feasibility and Planning, Jacksonville, FL: Project manager responsible for completing a marina feasibility for The District development on the St. Johns River. The feasibility effort included an assessment of market factors impacting the proposed marina; evaluation of existing physical and environmental conditions; identification of regulatory issues including manatee protection protocols; and, an assessment of the financial feasibility of the proposed marina project. This feasibility level effort resulted in the development of an optimum marina size and configuration and guidance towards obtaining necessary proprietary and regulatory approvals for the construction of the marina.

