

Years of Experience

14 Total

3 With Firm

Professional Experience

North Beach Engineering, Inc.

Jacksonville, Florida
Project Manager
(1997 – 2005)

Dyer, Riddle, Mills & Precourt, Inc.

Jacksonville, Florida
Senior Project Manager
(2005 – 2008)

WET Engineering Inc.

Jacksonville, Florida
Principal, Co-Owner
(2009 – Present)

Education

Master's in Engineering in Environmental Engineering, University of Florida, 1997

Bachelor's of Science in Environmental Engineering, University of Florida, 1995

Bachelor's of Science in Ornamental Horticulture, University of Florida, 1990

Professional Affiliation

Water Environment Federation

James E. LePetrie, P.E. is a principal for WET Engineering, which is headquartered in Jacksonville, Florida. He is responsible for management of a wide variety of projects for both water and wastewater utilities engineering. In addition to project oversight, he is involved with the design, permitting, and construction administration phases as well as with quality assurance/quality control and business development for the firm.

Mr. LePetrie's municipal and private utility project management experience over the past fourteen years includes water and wastewater treatment facilities, design of water distribution and wastewater collection systems including hydraulic modeling, pump station design, federal, state, and local permitting, utility system capacity analyses, and feasibility studies.

Project Experience

Spencer Wastewater Treatment Plant Phase IV and V Expansions, Clay County Utility Authority, Orange, Park, Florida: Responsible for design, permitting and project management of two expansions of existing plant from 0.5 MGD to 4.0 MGD. Projects included headworks with mechanical screening, grit separation and odor control systems, two 1.75 Mgal biological treatment units utilizing the Eimco Carrousel® process, three 82-foot diameter secondary clarifiers, three traveling bridge sand filters, three chlorine contact chambers, effluent pump station, 1.0 million gallon prestressed concrete reclaimed water storage tank, and high service pump building for reclaimed water distribution. Existing treatment tanks from the original plant were reworked to be utilized as additional reject water storage. Project also included engineering and permitting for the first BCR Environmental Neutralizer® biosolids treatment facility in the United States.

Capacity Analysis Report, North Beach Utilities, St. Augustine, Florida: Provided report in conjunction with several exceedances of average daily flow (ADF) to this private wastewater treatment plant. Matched daily rainfall data against ADF to the plant to discover whether inflow and infiltration were the cause of the higher flow rates. Also provided projections of future flow rates based on population data and proposed commercial construction in the service area. Presented report to Florida Department of Environmental Protection (FDEP) for approval.

New Smyrna Beach WWTF Substandard Effluent Tank Addition, Utilities Commission of New Smyrna Beach, Florida: Project manager for design and permitting for addition of 1.0 Mgal prestressed concrete storage tank and associated piping, electrical, and site work. Permitting was performed through FDEP and the City of New Smyrna Beach. Led pre-construction meeting and provided construction administration and final certification services during the project.

12" Water Main Upgrade, North Beach Utilities, St. Augustine, Florida: Responsible for design and permitting of approximately two miles of 12-inch water main to upgrade water distribution throughout the utility's southern service area. A large portion of the installation was done via directional bore due to space concerns along the State Road A1A right-of-way. Sizing and routing of the main was done based on hydraulic modeling of the southern portion of the service area.

Old Jennings Road Reuse Pump Station, Clay County Utility Authority, Middleburg, Florida: Project manager responsible for design and permitting of a new reuse water high service pump building with three 100 hp pumps, 0.75 Mgal glass-fused steel ground storage tank and supplemental raw water supply well and pump. Improvements for the CCUA Ridaught Landing WWTF were also performed for the project and included design of a new chemical storage facility and conversion of the existing gaseous chlorine disinfection system to liquid hypochlorite.

Water Treatment Facility Expansion, North Beach Utilities, St. Augustine, Florida: Project manager responsible for design and permitting to upgrade to the facility to 0.777 MGD. Project included a new 0.200 Mgal prestressed concrete ground storage tank, additional 0.259 MGD reverse osmosis membrane skid, and additional high service pump installation. Provided construction administration services including field observations and final certification.

Wastewater Treatment Facility Expansion, North Beach Utilities, St. Augustine, Florida: Project manager responsible for design and permitting of expansion of WWTF from 0.150 MGD to 0.300 MGD. The expansion included a 780 gpm master lift station, headworks with static screening, aeration basin improvements, new 30-foot diameter clarifier, chlorine contact chamber, and new 26,000 sf rapid infiltration basin. The project also included renewal of the facility's FDEP operating permit.

Clay County Utility Authority Ridgecrest Water Treatment Plant Expansion, Orange Park, Florida: Project manager responsible for design and permitting of upgrade that included new 530,000 gallon glass-fused steel ground storage tank, 10,000 gpm capacity stainless steel aerator tower, two 60 hp high service pumps and conversion of gaseous chlorination system to liquid hypochlorite disinfection.