

**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**

Florida Swimming Pool  
Association

United Pool and Spa  
Association

World Waterpark  
Association

Int'l Association of  
Amusement Parks and  
Attractions

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 in the aquatics engineering discipline. 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 experience with aquatics engineering includes small commercial pool and fountain projects through larger competition pools and aquatic amenity centers to management of comprehensive waterpark projects including site civil design, hydraulic and water treatment system design, permitting, and construction administration.

**Project Experience**

**Adventure Bay at Adventureland Park, Altoona, Iowa:** Design engineer responsible for design and permitting for new waterpark constructed at an established amusement park. Waterpark components included 25,000 sf wave pool, 7,000 sf kids pool with various water features, 1,500 ft. slow river, 6,000 sf pool with swim-up bar, splash pools for two ProSlide slide complexes, 8,100 sf zero-depth spraypad with Whitewater West Rain Fortress play structure and separate 1,900 sf interactive water feature with Water Odyssey and Vortex toys. Coordinated structural, electrical, and architectural design for the buildings associated with the project including swim-up bar, restrooms, mechanical buildings, and concession buildings. Provided site design including geometry, grading and drainage, and utilities and oversaw state and local permitting.

**Diver's Supply Training Pool, Jacksonville, Florida:** Design and permitting for 12'0" deep SCUBA diving training pool. Provided complete mechanical design drawings and equipment specification. Coordinated structural engineering for poured-in-place concrete walls. Performed site inspections of reinforcing steel prior to concrete pours. Permitted through Duval County Health Department.

**Virginia Graeme Baker Act Compliance, City of Jacksonville, Florida:** Assisted the City of Jacksonville with compliance with the Virginia Graeme Baker Pool and Spa Safety Act for all of its 33 swimming pools and sprayparks. A certification was provided in conjunction with replacement of the main drain outlet covers for each pool. Assisted the City's contractor with design solutions specific to each pool. Design was based on field data collected by the contractor that included main drain sump dimensions and pipe sizes and locations. A file review was performed at the Duval County Health Department for each pool where original construction data was collected from archived design drawings.

**Palencia Fitness Center Competition Pool, St. Augustine, Florida:** Project consisted of a 4,600 sf Jr. Olympic-sized competition pool with six lap lanes. Coordinated with the project team in design of the deck area as well as assisting the project architects with design of the associated mechanical building. Put together a complete set of construction plans that included site plan, piping plans, treatment system schematics, equipment specifications, and notes and other information required for permitting. Provided permitting package including plans, application forms, calculations set and other associated materials for permitting through FDOH.

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**Girl Scouts of Gateway Council North Fork Ranch Pool, Middleburg, Florida:** Project consisted of a 5,000 sf multipurpose swimming pool comprised of a Jr. Olympic-sized competition pool with six lap lanes; 1,000 sf plunge pool area for a future poolside slide; and a 720 sf zero entry area with handicapped ramp into the pool. Coordinated with aquatics equipment manufacturer and pool contractor during the design process. The treatment system was designed to be environmentally friendly and included an electrolytic generation system (“salt system”), variable frequency drive on the recirculation pump motor, and a vacuum sand filter housed in a stainless steel collector tank that will use less backwash water than conventional filtration systems.

**Coastal Oaks at Nocatee Amenity Center, Ponte Vedra, Florida:** Aquatics components included consisted of 3,100 sq. ft. leisure pool, 3,200 sq. ft. activity pool, and 114 sq. ft. wading pool. Assisted the project landscape architects with conceptual design for aquatics area. Provided design of the pools and treatment systems including hydraulics and water treatment systems. The project was permitted through FDOH. Project engineers also assisted with construction administration and final certification services.

**Royal Palm Beach Gardens Interactive Water Feature, Royal Palm Beach Gardens, Florida:** Design and permitting services for IWF with animated water jets for a new town center. Worked with fountain equipment manufacturer and landscape architect throughout the design process. Performed structural design of fountain shell. Provided permitting services for submittal to Palm Beach County Health Department.

**South Beach Park Sprayground, Jacksonville Beach, Florida:** Assisted the City of Jacksonville Beach with design and permitting of their first sprayground. The project commenced with submittal of a conceptual design to the City for review and approval. WET suggested and worked with a manufacturer that was able to provide a custom castle-themed feature that matched an existing dry playground at the park. Equipment was housed in a pre-plumbed filtration unit that employed vacuum cartridge filters and UV disinfection for optimal water treatment. The project was permitted through the Florida Department of Health (FDOH). WET provided construction administration services throughout the project and performed a final certification inspection prior to opening of the sprayground.

**Barco Newton YMCA, Orange Park, Florida:** Responsible for design and permitting of new YMCA pool that included play features and a poolside slide structure. Worked closely with the contractor and permitting agency during the design phase. The pool was designed to meet NCAA Short Course specifications and included a stainless steel perimeter overflow gutter that gave the pool an updated look.

**City of Alachua Interactive Water Feature, Alachua, Florida:** Assisted the City of Alachua with design and permitting of a new IWF located at the Hal Brady Recreation Complex. Developed conceptual design based on area constraints and the City’s demanding budget. Following approval of the concept, provided construction drawings with mechanical and structural design. Provided construction administration services throughout the project and performed a final certification inspection prior to opening of the IWF.

**Sam’s Surf City at Sam’s Fun City, Pensacola, Florida:** Designed pools and treatment systems for new waterpark at this existing family entertainment center. Waterpark elements included a 600 foot slow river, two kiddie activity pools 1,300 and 3,900 square feet in area, and 1,900 square foot splash pool for new slide complex. Additional phases included a 10,000 square foot junior activity pool with multiple play features and play structure and family raft slide and splash pool.

**Splash Island at Cypress Gardens, Winter Haven, Florida:** Assisted with design and performed construction administration for waterpark addition to the historic Cypress Gardens attraction. Elements included 20,000 square foot wave pool, 800 foot slow river, 9,000 square foot activity pool with Whitewater Rain Fortress play structure, splash pool and speed slide complex.