City of Key West

Request for Qualifications for Environmental Engineering Services

RFQ No.: 14-004

Date: July 9, 2014

Time: 3:30 p.m.

Copy

City of Key West
Request for Qualifications for Environmental Engineering Services

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5845 NW 158th Street, Miami, Florida 33014 ■ 305.826.5588 ■ amec.com

July 7, 2014

James Bouquet, PE
Director of Engineering
3140 Flagler Avenue
Key West, Florida 33040

Re: RFQ No. 14-004 - Environmental Engineering Services

Dear Mr. Bouquet and Selection Committee Members:

In response to your recent advertisement, AMEC Environment & Infrastructure, Inc. (AMEC) respectfully requests the City of Key West Department of Engineering Services's consideration for the **Environmental Engineering Services Contract** pertaining to environmental and coastal engineering.

AMEC provides engineering and project management services locally, regionally, nationally, and internationally. Approximately 100 of our professionals reside and work in the South Florida area, including several licensed professionals within the Florida Keys. **We offer the strength of a large consulting firm combined with the local knowledge and expertise required for project delivery within the City of Key West.**

AMEC is pleased to present our extremely qualified team that has been selected based on unique qualifications, performance records, and technical competency providing similar professional services requested under this Environmental Engineering Services contract. AMEC understands that the City is facing many challenges as it deals with its aging infrastructure, limited capacity for development, and rising sea levels. Specific tasks administered under this contract could potentially include the environmental assessment and remediation of commercial and industrial sites related to the marine services industry and former Department of Defense facilities, as well as the assessment and refurbishment of coastal armoring and beaches. As a focal point within the City of Key West, the Port of Key West will continue to play a vital role in the City's economy; and as improvements are made, the Department of Engineering Services's consultant will play an integral role in assisting in its development. AMEC has significant and relevant project experience providing environmental and coastal engineering services for various local municipalities and state and federal agencies that include but are not limited to Monroe County, Village of Islamorada, Florida Department of Environmental Protection (FDEP), Florida Department of Transportation (FDOT), Broward County, Broward County Aviation Department, Collier County, City of Naples, Miami-Dade County Public Works, Miami-Dade County Public Schools, the South Florida Water Management District (SFWMD), and the U.S. Air Force. We have five locations within the region, including Key West, Miami, Naples, Fort Lauderdale, and West Palm Beach, which makes AMEC a one-stop resource for the environmental and coastal engineering services required by the City of Key West.

One of AMEC's greatest strengths is our ability to partner with our clients and assemble a team that will satisfy every technical element of the project or task, including experienced engineers, architects, geologists, scientists, and certified technicians familiar with FDEP environmental assessment procedures, applicable ASTM standards, and the design and construction requirements established by local, county, and state agencies. As a result of AMEC's numerous years of experience working in the City of Key West and throughout the Florida Keys, our professionals are experts in navigating the permit review processes conducted by not only those agencies responsible for regulating building code compliance, but also the following environmental regulatory agencies: SFWMD, FDEP, U.S. Army Corps of Engineers (USACE), NOAA Fisheries, Monroe County Planning and Environmental Resources, and the Florida Keys National Marine Sanctuary (FKNMS), which often have substantial input on environmental and coastal engineering projects.

In order to enhance the City of Key West's ability to address even the most sensitive of permitting issues in a timely manner, AMEC is partnering with **Terramar Environmental Services** (Terramar) on this contract. Terramar which is located in the Lower Keys, has a long and distinguished history of working with several municipalities and utilities throughout Monroe County, Florida, including the City of Key West. Terramar will serve as our team's permitting lead for matters involving sensitive coastal and wetland resources.

Service Record

In Florida, as well as the Florida Keys, environmental and coastal engineering are two of AMEC's flagship services. We currently have several ongoing projects in the Lower Keys that involve all aspects of these services, including Garrison Bight Marina Environmental Services, Geiger Key Culvert Design and Permitting, and Sugarloaf Key Soil and Groundwater Assessments. We have repeatedly provided appropriately trained personnel to our clients who have proven themselves as responsible individuals, able to execute their jobs safely and reliably on a daily basis. AMEC continuously receives "Above Satisfactory" performance ratings on our engineering services contracts and we are committed to providing the same, high-level, quality services to the City of Key West's Department of Engineering Services. Finally, our project history will demonstrate our team's ability to handle any project envisioned under this agreement regardless of its size or complexity.

Quality People and Resources

We are proud to provide the City of Key West Department of Engineering Services with a host of experts in the disciplines of environmental and coastal engineering. AMEC's South Florida operations have the necessary professionally licensed engineers, geologist, surveyors, architects, and scientists to address all of the engineering services detailed in the RFQ as well as numerous services not listed in the aforementioned document. Additional services AMEC can provide from our South Florida offices include construction engineering and inspections, geotechnical engineering, civil engineering, structural engineering, and ecological services. In response to the wide range of services which could be requested under this contract, AMEC maintains our own calibrated testing equipment, surveying equipment, dive team, and aquatic vessels which may be critical to the success of this contract.

Standard of Excellence

AMEC abides by a strict policy of quality assurance and safety that addresses personnel and job site safety, staff qualifications and training, equipment maintenance and calibrations, third party audits and national accreditation, and QA review of technical and engineering work products. Our QA/QC activities are verified annually by internal and third party external audits.

AMEC's Florida Regional Manager **Mr. Michael Nardone, PG,** will be assigned as the Principal-in-Charge of this engagement and will assure that all of AMEC's resources are fully available to assist in the successful implementation of any task and is authorized to negotiate with the City of Key West. **Mr. Ricardo Fraxedas, PE,** will serve as the Project Manager for this opportunity and will be the local point of contact.

We have researched the scope of work under this contract and have an excellent understanding of the required services as well as the challenges facing the City of Key West. We are confident that the following pages will demonstrate that AMEC's team consists of experienced professionals with relevant project experience that will come to bear on this contract.

The AMEC team clearly understands that the fundamentals of complete client satisfaction are safety, staffing, communication, responsiveness, timelines, consistency, quality, and cost controls. We appreciate your consideration for this assignment and look forward to developing a professional working relationship with your staff.

Respectfully,
AMEC Environment & Infrastructure, Inc.

Michael Nardone, PG
Florida Regional Manager/Principal-in-Charge
305.826.5588, ext. 217
michael.nardone@amec.com

Ricardo Fraxedas, PE
Project Manager
305.826.5588, ext. 248
ricardo.fraxedas@amec.com

April 15, 2014

Mike Vieux, Senior Construction Manager
City of Key West
3140 Flagler Avenue
Key West, Florida 33040

Subject: **AMEC's Delegation of Signature Authority**
Reference: **RFQ No. 14-002, Request for Qualifications for Architectural Services**

Dear Mr. Vieux:

You requested documentation of signature authority within AMEC Environment & Infrastructure, Inc. (AEI) for the subject services listed above. In response, I provide the following table of generic delegated contractual authorities for your reference on this contract and future contracts between AEI and the City of Key West, Florida. Please note that these authorities apply to any Federal, State or Local Government contracting entities.

Additionally, Jose R. Perez has Office Manager level authority, and Michael Nardone has Regional Manager authority. As an officer of AEI, I can verify that the limits outlined in the table below are valid for your use:

Managerial Level	Time &Materials / Cost-Plus-Fixed-Fee	Fixed Price / Lump Sum
Office Manager	$500,000	$100,000
Area Manager	$2,000,000	$1,000,000
Regional Manager	$5,000,000	$2,000,000
Group Manager	$20,000,000	$10,000,000
President	$50,000,000	$20,000,000

Please do not hesitate to contact me at (615) 333-0630 if you have any questions.

Sincerely,

Lytle C. Troutt, Jr.
Sr. Vice President and Group Manager
AMEC Environment & Infrastructure, Inc.

Section 1
Company Profile

Firm Overview

Headquartered in Atlanta, Georgia, AMEC Environment & Infrastructure, Inc. (AMEC) is an engineering and architectural design, environmental consulting, and construction company operating with more than 4,200 professionals in 110 locations across the United States. Serving the clean energy, federal, industrial/commercial, mining, oil and gas, transportation, and water sectors, we provide services to both public and private clients worldwide. This entity is part of the larger division of AMEC plc, a/.. publically-traded company based in London. AMEC plc is a focused supplier of high-value environmental, engineering, and project management services to the world's natural resources, nuclear, clean energy, water, and environmental sectors. Since 2000, Engineering News Record magazine has ranked AMEC plc among the top international design firms. Our company has also ranked at the top of its sector in the Dow Jones Sustainability Index since 2005.

AMEC's Florida operation employs more than 500 people in offices located in every region of the state. We can draw on our experienced local managers and geographical reach to support the needs of clients, regardless of project size and complexity. AMEC's depth of global resources allows us to provide our clients with innovative solutions engineered to fit perfectly with your business challenges.

AMEC has 14 full-service offices in the state, including five in South Florida. Our staff brings specialized Florida knowledge and experience to our clients with aided service delivery driven by AMEC's expansive financial, project management, and IT systems. Utilizing these combined services allows us to draw on vast resources of personnel and experience to meet our clients' needs.

AMEC's Florida operation offers full-service solutions to clients throughout North America and internationally. We are dedicated to the consistent achievement of industry leading standards of excellence in consulting, including:

- Contamination Assessment and Remediation
- Environmental Services
- Architecture
- Building Sciences
- Civil Engineering
- Ecological Services
- Emergency Management
- Energy Engineering
- Geotechnical Engineering
- Materials Engineering
- Mining
- Survey & Mapping
- Water Resources

AMEC's Florida operation is home to many of the most talented and dedicated individuals serving the architecture, engineering, and scientific communities today. We are renowned for our expertise and professionalism, our sustainable integration of engineering and science methodologies, and our innovative approaches to finding solutions which fit within the complexities of any project assignment.

Notably, we currently have a local presence in the City of Key West, with several of our professionals residing and managing projects in Monroe County.

Environmental Engineering Services

AMEC's professional engineers are experienced in the broad discipline of environmental engineering and ecological services. We provide environmental engineering design, environmental site assessments, hazard assessments, and remediation and mitigation strategies and plans for clients on a regular basis. AMEC also hosts a team of biological and ecological experts, including wetland scientists, environmental scientists, biologists, geologists, restoration ecologists, and water resources and environmental engineers who can perform services such as water quality assessment and monitoring, wetlands surveys, and biological and ecological studies that are required in environmental engineering project activities.

AMEC's wide range of Environmental Services enables us to evaluate our clients' potential environmental liabilities and develop holistic remediation strategies that are cost-effective, practical, and conducive to ultimate project goals. Our approach to environmental management focuses on integrating environmental issues and aspects with safety, quality, and productivity to the benefit of our clients and the environment. Our services are packaged to suit the individual needs of each client and range from task-specific deliverables to complete Environmental Management Systems (EMS) program management. Our Environmental Services include:

- Air Quality Management
- Assessment and Remediation
- Brownfields Services
- Compliance Monitoring
- Due Diligence
- Environmental Auditing
- Environmental Compliance
- Geologic Hazards
- Surface Water and Groundwater Science
- Hydrologic Modeling/Nutrient Budgets and Management Planning
- Hazardous Waste
- Health and Safety
- Hydrogeologic Analysis
- Pollution Prevention
- Solid Waste Management
- UST Closure

For nearly 30 years, AMEC has been instrumental in the completion of successful environmental permitting

and compliance projects for commercial, industrial, municipal, and County clients. AMEC's staff of geologists, environmental scientists, and engineers has acquired the experience to guide the regulated community through the myriad and mazes of the ever changing environmental regulations.

Some of the services we could offer the City of Key West include the following.

Due Diligence

AMEC has worked with numerous private and public sector clients to complete environmental due diligence associated with real estate transactions and ownership of sites of environmental contamination. Our professionals strictly adhere to the procedures set forth in ASTM E1527-05 or E1528 for Phase I Environmental Site Assessments. We use standard site search radii, and all of our site reconnaissance activities are completed by our highly qualified staff.

Pre-acquisition or pre-divestment auditing is performed to identify and interpret the risks and liabilities associated with a proposed property transaction associated with the ownership, operation, acquisition, or divestiture of property. These audits often take place within a critical and limited timescale, and thus immediate mobilization of a project team and reporting turnaround are essential. Specific environmental, health, and safety auditing services provided include due diligence audits, contaminated land assessments, baseline reviews, compliance audits, and corporate environmental report verification. AMEC can assist the City of Key West in site selection of new properties by evaluating the site

conditions and developing the costs related to correcting any issues prior to use of the property.

Phase II Environmental Site Assessments

A Phase II contamination assessment is recommended if concerns of potential environmental conditions are revealed during the Phase I. Phase II assessments typically involve sampling and testing of soil, groundwater, or surface water. AMEC diligently works within regulatory timeframes to efficiently complete Phase II ESAs to evaluate Recognized Environmental Conditions (RECs) that are uncovered during our Phase I activities. AMEC provides practical approaches to the assessment of the RECs while recognizing our client's budgetary needs. For real estate transactions involving contaminated properties, AMEC staff members have successfully performed affirmed category N, S, and D Baseline Environmental Assessments (BEAs) and compliance analyses in order to obtain liability protection for existing contamination for our clients.

Remediation Design and Implementation

AMEC works to meet remedial strategy objectives, including: mitigation of health and environmental risk, land regeneration for a planned change in land use, reduction of environmental liability, and raised land value. Our specialists evaluate remedial options, feasibility studies, and design remediation programs. We coordinate with planning and regulatory authorities, financially appraise remedial options, prepare a remediation strategy, and manage contracts and evaluate bids. We perform site surveillance and construction quality assurance as well as validation sampling, monitoring, and reporting.

AMEC's skilled project managers have coordinated remedial investigations to delineate subsurface impacts at a wide variety of sites, including operating, closed, and abandoned landfills, manufacturing facilities, manufactured gas plants, and spill sites to name a few. Our experience relates to a wide array of remediation activities and technologies such as the installation and operation of in-situ remediation systems for underground storage tank (UST) sites and operating and abandoned waste sites. We have also completed long term monitoring of remedial activities and extensive source removal projects, including a recent source removal beneath an operating facility. AMEC project managers have decades of experience in site characterization, pathway evaluation, feasibility studies, and corrective action implementation. We have successfully obtained tier I and II residential, commercial, and industrial closures of USTs under Part 213. We also have experience closing numerous USTs that are not regulated under Part 213.

Indoor Air Quality

Identification of potential indoor air quality (IAQ) problems can begin with anticipated industrial hygiene issues such as those encountered during a building renovation, due diligence, risk assessment and avoidance, occupant complaints, and emergency response to fire, earthquake, tornado, hurricane, or flooding. AMEC routinely assists owners and facility managers anticipate, recognize, evaluate, and control IAQ problems. Services include identification, remediation, and ongoing monitoring of indoor air pollutants.

Our air quality specialists use state-of-the-art technology assessment tools and methodologies including American Conference of Governmental Industrial Hygienists (ACGIH) Protocol, combined with in-depth regulatory knowledge, to assist in managing risk and maintaining safe IAQ.

AMEC's industrial hygienists, registered professional engineers, environmental scientists, and IAQ specialists utilize our national resources to assist owners and building managers in anticipating, recognizing, evaluating, and controlling environmental health and safety issues.

Asbestos

The presence of asbestos in a facility can be a major factor in determining how routine operations and maintenance work can be performed, and correspondingly, a significant factor in assessing remediation and disaster relief efforts. As one of the leading asbestos consultants in the nation, AMEC has provided sound advice and practical management solutions to clients since the 1970s. In making

recommendations concerning asbestos abatement, we take into consideration the nature of the client's use of the facility, current facility management practices, planned renovations, and extent of damage when present.

AMEC has more than 110 personnel on staff with asbestos accreditation as inspectors, management planners, project designers, project monitors, and contractor supervisors. They develop comprehensive plans and specifications for all types of asbestos abatement actions, administer contracts between owner and contractor, provide on-site monitoring during the abatement process, and establish operations and maintenance (O&M) programs to safely manage asbestos-containing material (ACM) in-place prior to its eventual removal.

Asbestos Lab Services

Each year, we analyze thousands of samples in our National Voluntary Laboratory Accreditation Program (NVLAP) certified labs in Atlanta, Phoenix, and Tampa using Polarized Light Microscopy (PLM) coupled with dispersion staining. After suspect materials have been identified, sample areas and locations are delineated. Representative bulk samples are collected, returned to the lab, and analyzed. The PLM technique detects unique optical crystallographic properties of the crystalline forms of asbestos in the samples. These properties are used to identify asbestos mineral types: chrysotile, amosite, anthophyllite, tremolite, actinolite and crocidolite.

Vertex™ Asbestos Module: Facilities Management Software - As part of the Vertex™ product suite, the Asbestos Module maintains comprehensive information regarding ACM found in an organization's facilities. This information is used to assist management in the development of plans for the abatement or in-place management of identified hazards.

Lead-Based Paint

AMEC has led hazard management programs at more than 3,000 sites nationwide in recent years, comprising more than 30,000 residential units, including property assessment surveys and testing for the presence of lead-based paint and design of remediation programs. Our inspectors use a uniform testing methodology, data collection, and recording protocol using portable computers. XRF Analyzers are regularly calibrated to document accuracy and comply with regulations for XRF investigations.

The United States Department of Housing and Urban Development has adopted our information management tool, called Comprehensive, Accurate, Reliable Lead Information (CARLi), as the system of choice for units where funding assistance to owners is provided and the unit is in the Self Audit/Self Disclosure program.

Surface Water Quality Assessment and Restoration

AMEC understands that water quality protection, planning, and restoration of surface waters are of paramount importance to the City of Key West. AMEC is very familiar with the FDEP Impaired Waters Rule, the TMDL process, and pending Numeric Nutrient Criteria (NNC), as well as Best Management Practices (BMPs) which, upon implementation, can achieve water quality restoration goals. In addition, AMEC has on-staff grant writers who can assist the City with the ability to leverage millions of dollars in available funding through the FDEP's 319 and TMDL programs as well as others.

Monroe County has initiated a proactive Canal Management Program to address water quality impairments and citizen concerns. AMEC has been a key player in assisting the County in the development of this program. In addition, AMEC has assisted the County in developing an extensive water quality, land use, hydrologic, and infrastructure GIS data base that can support the canal restoration planning. As a result, the County possesses the information needed to perform detailed analyses of available water quality data; identify and fill critical data gaps; assess conditions in their canals; and develop a scientifically-based rationale to support selection and implementation of the most cost-effective BMPs for the water quality improvement of the canals and nearshore waters in the Keys.

Regulatory Support - Rule Development and Permitting

Our environmental engineering services team has a deep bench of environmental permitting and policy experts. Our permitting experts are skilled in efficiently preparing complex permitting packages for projects that are regulated by several agencies. Our policy experts are experienced in dealing with sensitive environmental issues, and regularly provide guidance during the project execution process in order to ensure all applicable regulations are followed, which contributes to reduced exposure to environmental and construction risk for the client.

The AMEC team has the technical expertise to provide the City of Key West with a wide range of regulatory support services including review of new rules and guidance on rule development, such as the TMDL program. AMEC can provide all types of permitting expertise from the completion of permit packages to review of compliance with existing permits.

Grant Writing and Restore Act Funding Support

AMEC can provide the City of Key West with grant writing support, and has already shown this capability by the successful award of three grants (three from DEP and one from EPA for Monroe County). AMEC can also provide specific project funding efforts by assisting the City in the submittal of project scopes and required packages for Restore Act Funding.

Ecological Services

As leading experts in Ecological Services, we are uniquely qualified to advise clients on the subtle balances that ecosystems require for survival. Our professionals devise strategies and implement programs that restore sensitive water, wetland, and upland environments taking care to ensure our solutions address water quality, wildlife, and vegetative

communities, and ultimately promote healthy and sustainable ecosystems. Disciplines including ecology, hydrology, geomorphology, biology, and sociology are applied to resolve complex environmental challenges in our day-to-day work.

AMEC's Ecological Services team supports our clients in a host of ecological projects from wetland delineations to large-scale restoration initiatives. We have experience in a broad array of ecological habitats with noteworthy experience in virtually every type of natural Florida watershed physiography and waterbody type, including marine, estuarine and freshwater, with unique knowledge of sub-tropical streams.

Hydrologic, Hydraulic, Integrated, and Water Quality Modeling

Modeling provides a global approach to understanding the behavior of hydrologic systems which enables us to make better predictions and overcome the major challenges in water resources management. Modeling requires in-depth scientific knowledge of hydrology, strong mathematical and statistical skills, and proficiency in a range of software codes necessary to accurately and efficiently calculate hydrodynamic and hydraulic variables related to flow volume, water levels, and hydropattern.

AMEC is among the best engineering firms available to provide high caliber modeling expertise. We provide our clients with a combination of specialists highly knowledgeable of the environmental setting and equally efficient with the necessary software. Our Water Resources engineers are some of the most skilled modelers working in the field today having developed in-house software models and written groundbreaking publications, journal articles and reports. They are accomplished 2D and 3D modelers proficient in all applicable codes including EFDC, RMA-2, and CH3D.

AMEC's GIS analysts are familiar with data compilation, conversion, and exchange using ArcGIS, GPS, AutoCAD and LiDAR, as well as using hydrologic and hydrology software such as ArcHydro, XP-SWMM, InfoSWMM, HEC-2, HEC-RAS, HEC-HMS, ICPR, GeoRAS and GeoHMS. We use field data collection forms for hydraulic structures (flow control structures, bridges and culverts) that utilize GPS data collection and ArcPad to maintain all information in an electronic format that is easily imported into GIS geodatabases.

Threatened and Endangered Species

AMEC scientists have conducted numerous threatened and endangered (T&E) species surveys and habitat assessments in Florida and throughout the US. Our scientists are experienced in conducting research and identifying protected species habitat, protected species, or evidence of protected species (faunal: nests, burrows, tracks, scat, calls).

AMEC scientists review current information regarding the potential for the presence of T&E species (FNAI, USFWS, and/or FWC websites), T&E species characteristics, and preferred T&E habitat. Assembling this information allows AMEC scientists to fine tune their approach in the field and complete the assessment in an efficient manner. Field investigation are made to identify listed (plant and animal) species on the subject site, generally by direct observation of the plant or animal, or by identifying evidence of T&E species (burrows, nests, tracks, and scat). AMEC has experience in the Keys identifying and managing the Key Largo wood rat, Key Largo cotton mouse, Eastern indigo snake, Schaus' swallowtail butterfly, Florida and Stock Island tree snail, Key deer, West Indian manatee, American crocodile, American bald eagle, osprey (a Monroe County Species of Special Concern), native hardwood hammock species and invasive exotics, and Sensitive Aquatic Species such as seagrasses, corals and sponges. AMEC has expertise in the habitat recreation and relocation of many of the above listed species.

Toxicology Laboratory

AMEC's toxicology laboratory in Gainesville offers comprehensive toxicity testing services using aquatic and terrestrial organisms. The laboratory is certified by the National Environmental Laboratory Accreditation Conference (NELAC No. E82998). The services offered by the toxicology laboratory are used by AMEC to enhance our full range of consulting services. The AMEC toxicology laboratory has the facilities, equipment, and personnel to perform numerous toxicity tests simultaneously.

Coastal Engineering

More than 70 percent of the earth surface is ocean and more than half of the world's population lives within 125

miles of the coastline. Effective management of the world's marine and coastal environments has never been more critical. AMEC's engineers and scientists understand that the complex interactions between humans and other organisms that inhabit marine and coastal ecosystems requires a diverse knowledge base and expertise, coupled with a multidisciplinary approach. Out team of dedicated professionals provides comprehensive marine and coastal services to public and private-sector clients in Florida and around the world.

AMEC offers a full range of services in support of marine-based projects and developments, including biophysical surveys, habitat mapping, oceanographic monitoring and modelling, environmental impact assessments, regulatory and permitting support, and marine archaeology.

Our ports and marine engineers provide comprehensive engineering services for bulk and break bulk businesses, container ports, ferry and passenger terminals, marine infrastructure, transmission lines, waterfront developments and the oil and gas industry. Our coastal engineering services include:

- Marine Ecology
- Marine Wildlife Surveys and Assessments
- Water and Sediment Quality Studies
- Ecological Risk Assessment
- Coastal and Marine Archaeology
- Ports and Harbor Engineering
- Geographic Information Systems and Information Management

Section 2
Staff Qualifications

Project Team

Perhaps more than any other factor, the staff assigned to the Environmental Engineering Services Contract is the key to maintaining the project budget, schedule, and success. Equally important is a team-wide functional knowledge and understanding of the project guidelines and requirements. AMEC has selected a team of highly experienced and uniquely qualified individuals that have been chosen to fulfill the lead roles for this contract. The team members selected for this contract possess not only a pragmatic understanding of the listed scope of services but a flexibility and diversity that will allow our team to immediately adapt to any changes in scope requested by the City of Key West Department of Engineering Services. These attributes will ensure the final results are consistent with the intended final end-use.

Additionally, it is AMEC's philosophy to establish a project team for individual assignments and to stick with that team through the duration of the project. This philosophy is a good cost-control measure and a great quality control measure due to the continuity provided to the work product. AMEC is pleased to note that many of our team members are long-term staff that live and work in the Florida Keys. This is important to City of Key West because the benefit of having a stable and consistent consultant team working on the City's projects in a timely fashion is critical to the contract's success.

Our project manager, technical leads for each of the requested areas of service, and key personnel are experts in their areas of experience. AMEC's team will be led **Mr. Ricardo Fraxedas,** a Florida licensed professional engineer, who will serve as project manager for this Environmental Engineering Services contract. Mr. Fraxedas has overlapping and complementary skills that will benefit the City of Key West through both his technical expertise and his 35 years of managerial experience in both South Florida and the Caribbean. Mr. Fraxedas has an extensive background in environmental regulatory affairs and resolution of environmental issues for commercial and government clients. He has been responsible for spill prevention, control, and countermeasures plans (SPCC), assessments, remediation, and litigation support for several high-profile sites, including two prominent East Coast international airports. He has authored articles and presented

numerous lectures on environmental consulting, site assessments, design of remediation systems, and environmental regulatory compliance. He has also served as an expert witness on various environmental compliance, remediation, and permitting matters and has provided review and interpretation of Latin American environmental regulations for multinational clients. Mr. Fraxedas is currently the principal engineer and QA/QC lead on multiple projects within the Florida Keys and the City of Key West.

Mr. Paul Thornbury, Environmental Specialist, has more than 30 years of experience conducting environmental site assessments, developing remedial action plans, supervising remedial system installations, performing real estate transfer audits, and completing regulatory compliance studies. He is currently managing multiple environmental remediation projects in the Florida Keys, including the Garrison Bight Marina and Sugar Loaf Key projects. Mr. Thornbury supervised one of the largest contamination assessment projects ever completed in Florida. This site assessment was competed at Port Everglades and included all of the underground petroleum hydrocarbon pipelines within the right-of-way at the Port from the Piers to the Bulk Storage Terminal. As an expert in site assessment and remediation Mr. Thornbury will be serving as our team's environmental services lead.

Ms. Wendy Blondin, PG, is a Principal Hydrogeologist who will be providing technical expertise on issues of contamination assessment, Florida Keys geomorphology, water quality, and nearshore and canal management. She has been the prime contact with Monroe County on the development of the Canal Management Master Plan and the Monroe County Canals Demonstration Project. On behalf of the Miami-Dade County Public Schools, Ms. Blondin has completed several environmental site

assessments, developed numerous remedial action plans, and completed Operations and Maintenance Manuals for various types of remedial systems. As a well known Florida Keys resident, Ms. Blondin will prove to be a tremendous resource for the City of Key West on issues of permitting and public outreach.

Mr. Russell Stauffer, PE, has had extensive experience in many engineering and industrial hygiene/environmental projects. As a Senior Environmental Engineer, he has served as a site representative, project manager, and consultant of record for numerous asbestos, lead-based paint, IAQ, and radon projects. His total professional experience also includes conducting extensive asbestos and lead-based paint training classes and presentations.

Mr. Ashok Aitharaju, EI, Environmental Engineer, has more than 18 years of experience in environmental engineering representing city, county, state, and private clients in contamination assessment, remediation, environmental permitting, drinking water systems testing, and surface water testing. He has performed numerous Phase I and II ESAs, UST removals, remediation and site closures involving hydrocarbon releases, solvent contamination, and other contamination generated from varying industrial processes. On behalf of the Miami-Dade Aviation Department, Ashok has performed remedial action monitoring and hydrogeologic assessments for petroleum-contaminated and non-petroleum sites.

Ms. Charlene Stroehlen, PE, will be the Coastal Engineering Lead for this contract. Ms. Stroehlen is currently the lead engineer for the Monroe County Canals Demonstrations Project and the Geiger Key Canal No. 472 Culvert Design/Permit project. Ms. Stroehlen is a civil engineer and Florida Professional Engineer with more than 30 years of professional experience in stormwater treatment design, pumping system design, wetland restoration design, and environmental resource permitting. She is very knowledgeable of the Keys coastal infrastructure, water quality improvement techniques, dredging design, and permitting in sensitive environmental resource areas.

Mr. Eric Reitter, PE, is a Licensed Civil and Environmental Engineer with over 19 years experience in consulting engineering and will be serving as our team's marine infrastructure design expert. His project experience includes the planning, design, and construction administration of infrastructure projects including marine, solid waste management, wastewater, water distribution, slope stabilization, roadway, and drainage. Mr. Reitter has led the design and construction of piers and waterfront facilities to include geotechnical, structural, electrical and civil engineering, as well as preparation of associated marine traffic studies, dredging design, and environmental permitting. Mr. Reitter was the project manager and lead civil engineer for the San Juan Waterfront project in San Juan, Puerto Rico which included the preliminary design and permitting of 11,000 feet of sheetpile along the San Antonio Canal.

Mr. Peter Medico, PE, will serve as our construction support services lead. Peter has more than 30 years of broad range experience from project design, including site, roadway, storm-water management, drainage, and permitting, to construction management, including contract negotiations, project management, field and technical review and assistance, and claims analysis and resolution. His involvement encompasses public and private sector projects from major interstate and urban roadway design and construction to industrial, commercial, and residential with emphasis on service and quality control. He is currently working on the reconstruction of North Roosevelt (U.S.1) in Key West and is very familiar with all the complex issues of working in the Keys. Mr. Medico has personally prepared and submitted five FDOT Final Estimates and supervised the preparation of 18 Final Estimates.

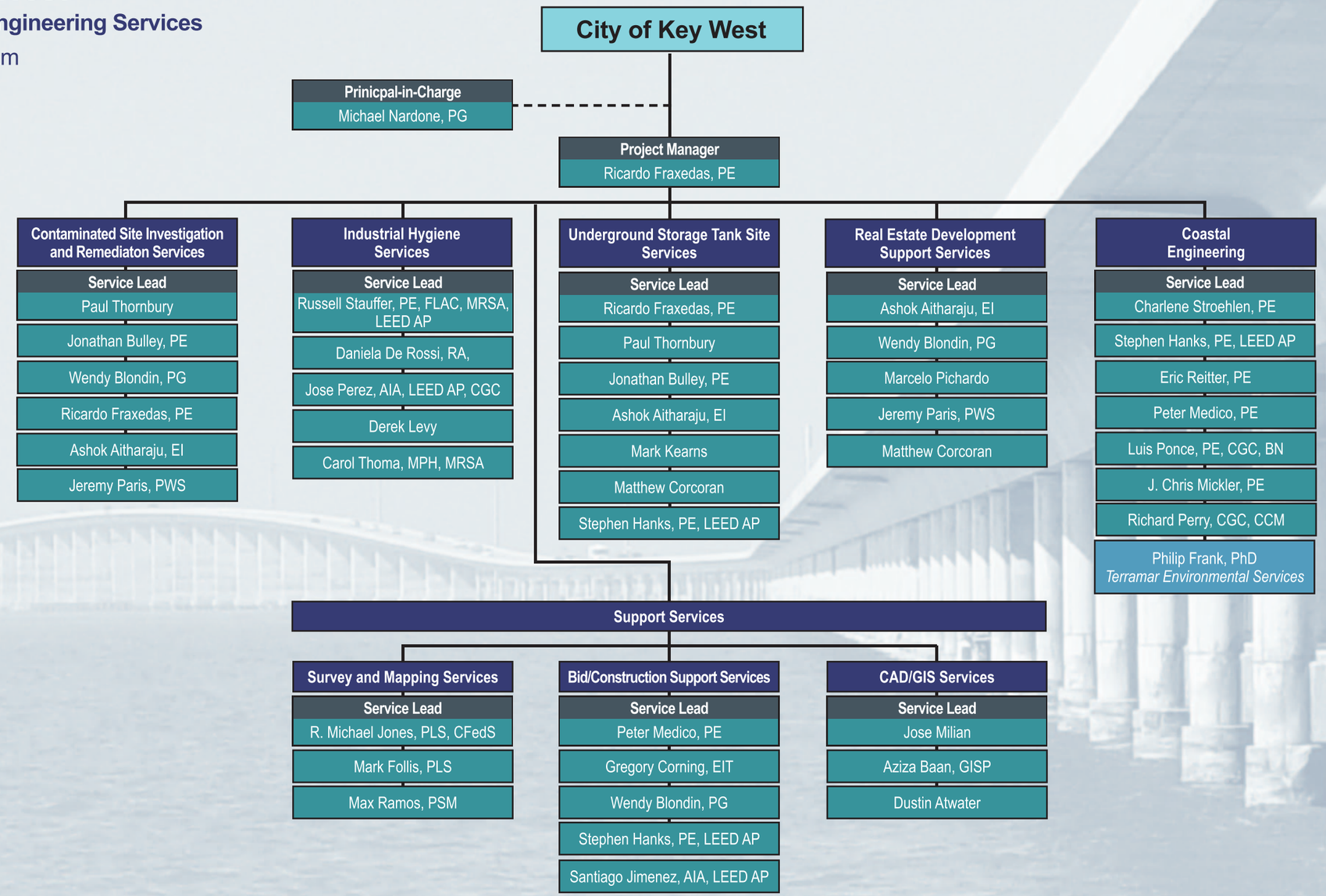
Dr. Phil Frank, PhD, (Terramar Environmental Services), will be serving as our team's permitting lead for all projects involving coastal and wetland issues. Dr. Frank conducts a wide array of field investigations in both terrestrial and marine settings with an emphasis on habitat delineation, threatened and endangered species occurrence, and protected resource identification. Dr. Frank conducts coral assessment and relocation projects, wetland mitigation and restoration projects, and habitat mapping throughout the Florida Keys. Dr. Frank is an expert in preparing written reports including ERP permit applications, environmental impact assessments, and mitigation plans. Dr. Frank will serve as a valuable resource for the City of Key West and Department of Engineering Services as he has developed significant relationships with regulatory agencies at the local, state, and federal level, including U.S. Fish and Wildlife Service, National Marine Fisheries Service, Florida Keys National Marine Sanctuary, USACE, FDEP, SFWMD, and Monroe County Environmental Resources.

Mr. Santiago Jimenez, AIA, LEED AP is a Licensed Architect with more than 15 years of experience as a project manager and architect for large-scale cruise ship terminals, commercial, industrial, recreational, and institutional projects. He has extensive experience in managing projects, developing contract documents, and on-site construction observation. As a project manager, he has been responsible for all phases of design and construction, including design development, code and zoning compliance, specifications, construction documents, bidding assistance, and shop drawings, as well as review and construction administration for large-scale transportation, commercial, institutional, and industrial projects.

City of Key West

Environmental Engineering Services

AMEC Project Team



Michael J. Nardone, PG

Principal-in-Charge

Mr. Michael Nardone has 30 years of experience in the Florida engineering consulting industry. He has served in the capacity of office manager, regional manager, and national director during the course of his career. His broad areas of expertise include program and construction management, hazardous waste management, ecological permitting, homeland security and emergency management, architectural design, and civil engineering.

Mr. Nardone has also performed as Principal-in-Charge for numerous multi-million dollar contracts with local governments, as well as state and federal agencies, the private sector, and for design and construction activities associated with the expansion of the Panama Canal for the Panama Canal Authority (ACP). As Principal-in-Charge, his primary responsibilities have been to provide contract management, serve as client liaison, and provide senior technical support. Mr. Nardone has also been responsible for developing multiple business lines and strategic marketing plan initiatives across Florida, along the East Coast of the United States, and internationally in the Caribbean and Central and South America.

Key Projects

ENVIRONMENTAL SERVICES

Department of Environmental Resources Management, Miami-Dade County, Florida

Principal-in-Charge: A five-year, $60-million hazardous waste turnkey environmental services contract involving the cleanup of soil, groundwater, and surface water contamination at facilities owned and operated by Miami-Dade County. Met with the client regularly to discuss upcoming projects and ensure adequate pricing and delivery for work varying from remediation of more than 1 million yards of contaminated soil from Miami International Airport to the design-build of several large scale remediation systems.

ENVIRONMENTAL PETROLEUM CLEAN-UP CONTRACT

Department of Environmental Resources Management , Miami-Dade County, Florida

Principal-in-Charge: Directed two consecutive three-year, $3-million contracts for the assessment and clean-up of petroleum contaminated soil, groundwater, and surface water for all Miami-Dade County departments.

ENVIRONMENTAL SERVICES

Department of Environmental Resources Management, Miami-Dade County, Florida

Principal-in-Charge: Responsible for a three-year, $30-million contract to deliver turnkey environmentally oriented projects to various Miami-Dade County departments. Key projects included the design-build of a 3.5-mile, 36-inch force main through the downtown Miami area for Miami-Dade Water and Sewer; the assessment, remediation, and closure of the OJUS landfill for Miami-Dade Solid Waste Department; and the development and management of Miami-Dade County's contaminated soil staging area.

EMERGENCY RESPONSE CONTRACT

Department of Environmental Resources Management, Miami-Dade County, Florida

Principal-in-Charge: Responsible for two consecutive two-year, $3-million emergency response contracts with the County. Highlights included the coordination of the response to a hydrocarbon release that resulted in an explosion and the evacuation of a residential neighborhood; emergency response to release at the downtown motor pool; and the response to a surface water discharge at the Miami-Beach Marina.

ENVIRONMENTAL PETROLEUM CLEAN-UP CONTRACT

Department of Environmental Resources Management, Miami-Dade County, Florida

Principal-in-Charge: Directed two consecutive three-year, $4.5-million contracts for the assessment and clean-up of hazardous waste in soil, groundwater, and surface water for all Miami-Dade County departments. A featured project included the demolition of 165-foot-tall incinerator stack and associated

Education

- B.S. Geology, Florida State University, 1983

Registrations & Certifications

- Professional Geologist, Florida No. PG1171

Experience

- AMEC: 2011
- Industry: 1983

Professional Affiliations

- Miami Beach Chamber of Commerce
- Miami Dade County Local Mitigation Strategy Steering Committee

structures for the City of Coral Gables. The stack was contaminated with various contaminants (dioxin, asbestos, biological toxics, and heavy metals). The proximity of the stack to residential homes and busy roads made demolition work require extensive precautionary measures, air and noise monitoring, public meetings, and night time operations to allow use of the adjacent solid waste transfer facility during demolition.

ENVIRONMENTALLY ENDANGERED LANDS PROGRAM

Miami-Dade County, Department of Environmental Resources Management, Florida

Principal-in-Charge: Assisted Miami-Dade County with the preparation of long-term land management plans for all of the Environmentally Endangered Lands (EEL) parcels located in the County. Tasks included coordination with the Department of Environmental Resources Management's (DERM's) EEL Program and Miami-Dade County Natural Areas Management, existing data reviews, research, intensive field investigations, wildlife surveys, natural community inventories and mapping, and preparation of relevant sections of the land management plans.

ENVIRONMENTAL SERVICES

Florida Department of Transportation District 4, Florida

Principal-in-Charge: Responsible for two consecutive three-year, $5-million contracts for FDOT District 4. Directed activities associated with site preparation, construction, relocated or replacement of underground utilities; installation and operation of dewatering systems; preparation of contamination assessment plans and reports; and remedial action plans and implementation when either contaminated soil or groundwater was identified. Most of the work was associated with new right-of-way development.

HAZARDOUS WASTE CLEAN-UP

Florida Department of Environmental Protection, Statewide, Florida

Principal-in-Charge: Responsible for a statewide, four-year, contract for assessment, design, and remediation services associated with the restoration of dry-cleaner facilities throughout Florida.

SITE INVESTIGATION SECTION

Florida Department of Environmental Protection, South Florida

Principal-in-Charge: Led two consecutive three-year, $3-million contracts for the assessment of various hazardous waste plumes of unknown origin throughout South Florida. Investigations generally initiated as a result of a wellfield being adversely impacted by contaminants.

ENVIRONMENTAL SERVICES

Florida Department of Management Services, Division of Building Construction- Environmental Services, Statewide, Florida

Principal-in-Charge: A statewide three-year, $3-million environmental services contract involving the design and removal of underground and aboveground storage tank systems, contamination assessments, remedial system design and implementation, and operations and maintenance.

ENVIRONMENTAL AND PETROLEUM STORAGE SYSTEM SERVICES

Shell Oil Company, Statewide, Florida

Senior Project Manager: A statewide, 10-year, $25- million account to provide turnkey environmental and petroleum storage system services. Directed projects at more than 150 Shell facilities in Florida, including contamination assessment, remedial system design, and installation of petroleum storage systems. Contract also included O&M and compliance.

ENVIRONMENTAL AND PETROLEUM STORAGE SYSTEM SERVICES

Amoco Oil Company, Statewide, Florida

Senior Project Manager: Served a senior account manager and project manager on a statewide, eight-year, account to provide turnkey environmental and petroleum storage system services to Amoco Oil Company. Directed services at more than 100 facilities in Florida, including the design and installation of petroleum storage systems, contamination assessments, remedial system design, and remedial system implementation.

Ricardo Fraxedas, PE

Project Manager/ UST Site Services Lead/Contaminated Site Investigation and Remediation Services

Mr. Ricardo Fraxedas is a Chief Engineer with 35 years of environmental engineering experience. He has an extensive background in environmental regulatory affairs and resolution of environmental issues for commercial and government clients. He has been responsible for assessments, remediation, and litigation support for a variety of industries and sites, including airports, fuel terminals, manufacturing facilities, educational facilities, and waste disposal sites in the U.S., Caribbean, and Latin America. He has authored articles and presented numerous lectures on environmental consulting, site assessments, design of remediation systems, and environmental regulatory compliance and sustainability. He has also served as an expert witness on various environmental compliance, remediation, and permitting matters and has provided review and interpretation of Latin American environmental regulations for multinational clients.

Prior to joining AMEC, Mr. Fraxedas served as the head of the hazardous materials section for Miami-Dade County, Florida. In this role, he authored the county's underground storage tank regulations and industrial waste pretreatment regulations. He was responsible for the investigations and remediations of contaminated sites, including one of the first Superfund cleanups to be completed.

Key Projects

OPINION OF COST

Dade County Aviation Department, Miami, Florida

Program Manager: Reviews all submittals to the county and provides guidance and addresses questions from the county's financial auditors. Provides consulting services to document the costs spent on environmental projects at Miami International Airport (MIA), and to project the cost of moving forward with assessment and remediation at the airport. The project initially was focused on a consent agreement between DCAD and the local regulatory agency, Miami-Dade Department of Environmental Resources Management (DERM). The project evolved from the initial scope, which projected clean up levels of soil to "clean fill" and clean up of ground water to Florida Drinking water standards (Chapter 62-550) of the Florida Administrative Code.

VARIOUS PROJECTS

Chevron Environmental Management Company, Latin America and the Caribbean

Principal Engineer: Services provided include ESAs, remedial system design, site remediation, and interaction with regulatory agencies in several countries. Was awarded a "Best in Class Performance" service award from Chevron in 2011. As part of the services for one of the sites in Nicaragua, a presentation to the Supreme Court in Managua (in Spanish) was provided to establish the appropriate cleanup protocol.

RESIDENTIAL CANALS INVENTORY, WATER QUALITY ASSESSMENT, AND GEOGRAPHICAL INFORMATION SYSTEM SERVICES

Monroe County Marine Resources Department, Florida

Project Manager: Services provided included inventory and assessment to determine physical characteristics of water in canals in residential areas of the South Florida Keys. Services included review of existing data and setup of GIS database and metadata file of information on canal system.

ENVIRONMENTAL SERVICES

Beckman Coulter, Hialeah

Project Manager: As key client contact, provided client communications and reviewed and sealed engineering submittals to the regulatory agencies. Provided environmental services at various sites in Hialeah, Florida. Projects included the spill cleanup for a 1,000-gallon diesel fuel release from an above ground storage tank at Building 740. Excavated and disposed of approximately 2,100 tons of impacted soils, 25,000 gallons of petroleum contact water, and restored the site. Performed post source removal site assessment for soil

Education

- M.S. Environmental Engineering, University of Florida, 1977
- B.S. Microbiology, University of Florida, 1975

Registrations & Certifications

- Professional Engineer, Florida No. 43287
- Qualified Stormwater Management Inspector, Florida No. 25665

Experience

- AMEC: 2003
- Industry: 1979

and groundwater delineation and prepared Source Removal and Site Assessment Reports. Additional projects included air samples for lead dust and mercury and a Phase II environmental site assessment to evaluate the potential impacts from solvents and assessment of the former underground wastewater pretreatment tank.

ENVIRONMENTAL SERVICES AT A FORMER FLORIDA POWER & LIGHT SITE

Miami-Dade Aviation Department, Miami, Florida

Project Principal/Project Engineer: Installed several groundwater delineation monitoring wells in the airside and landside portion of MIA Site access for drilling was coordinated with MIA airside operations and airport tenants. Prepared and submited several quarterly groundwater monitoring reports for arsenic.Also preparing a draft covenant for Institutional Controls running with the land to Miami-Dade County Department of Regulatory and Economic Resources (RER) to qualify for a No Further Action (NFA) with Conditions Closure for groundwater at the site.

PERMITTING SERVICES

American Tire Recycling Group, LLC, Miami, Florida

Project Manager/Project Engineer: Provided assistance in permitting tire collection, shredding, and recycling facility. The permitting effort required coordination between the Miami Dade Department of Environmental Resources Management (DERM), the Miami Dade Solid Waste Department and the South Florida Water Management District. worked closely with the facility architect and the shredding equipment suppliers in order to create a facility that would be approvable. Research was performed and presentations were made to the applicable agencies to show that the facility would be a legitimate recycler and not a transfer or disposal facility.

LAS OLAS BOULEVARD GROUNDWATER MONITORING

City of Fort Lauderdale, Florida

Project Engineer: Performs quarterly monitoring events to monitor isopropylbenzene and polynulear aromatic hydrocarbons in the groundwater. Prepared a Remedial Action Plan for removal of contaminated soil was prepared to expedite the remediation process to construct the proposed replacement pump station. Assisted the City with the bid specifications for the bid package for the construction of the pump station and handling of contamination. It included the site safety, environmental issues such as free product and contaminated soil, contaminated water dewatering, surface water controls, environmental permitting, and waste handling, etc.

CHICK-FIL-A SITE

Bank of America, Fort Lauderdale, Florida

Project Engineer: Performed supplemental environmental site assessments at the 20,000 square-feet parking lot for Bank of America Petroleum hydrocarbon discharges were discovered during due diligence activities for a potential real estate transaction. The Phase II investigation identified Benzo(a)pyrene (BaP) in soil, and benzene and xylenes in groundwater at levels exceeding the regulatory limits. Submitted the discharge notification to Broward County and performed additional soil and groundwater assessments.

EXPERT WITNESS TESTIMONY

Chartis Insurance, Florida

Principal Engineer: Provided expert witness testimony at trial involving source, transport, and fate of petroleum contaminants. Testimony resulted in favorable outcome for client.

VARIOUS PROJECTS

Chevron Environmental Management Company, Latin America and the Caribbean

Principal Engineer: Services provided include ESAs, remedial system design, site remediation, and interaction with regulatory agencies in several countries. Was awarded a “Best in Class Performance” service award from Chevron in 2011. As part of the services for one of the sites in Nicaragua, a presentation to the Supreme Court in Managua (in Spanish) was provided to establish the appropriate cleanup protocol.

Paul Thornbury

Contaminated Site Investigation and Remediation Services Lead/UST Site Services

Mr. Paul Thornbury is an experienced senior environmental scientist, having conducted numerous hydrogeologic assessments, developed remedial action plans, supervised soil and groundwater remediation system installations and tank removals, prepared real estate transfer audits, and completed regulatory compliance studies. His role as a Project Manager includes development of work scopes and preparing cost estimates, implementation of assessment and remedial action plans, budget tracking, client communication, and regulatory negotiations. His experience includes conducting site assessments to delineate contaminant plumes, environmental property transfer audits, asbestos surveys, supervising underground storage tank removals and site remediation projects including large excavations, performing hazardous waste cleanups, and sampling and profiling hazardous waste. He has extensive experience with petrochemical industry clients.

Before joining AMEC, Mr. Thornbury served as Environmental Assessment and Remediation Manager for an environmental services company, where he was responsible for the oversight of environmental assessment and remediation projects. He also served as Operations Manager for Fluor Daniel's South Florida office, where he was responsible for resource commitment, coordination, and oversight of environmental assessment and remediation projects.

During his tenure at AMEC, Mr. Thornbury has managed the Hertz Corporation national account, which has included approximately thirty projects located throughout the U.S. These projects included supervising tank removals, excavation of contaminated soils, environmental site assessments and soil/groundwater remediation systems for Hertz car rental and Hertz equipment rental facilities.

Mr. Thornbury has managed more than one hundred fifty Chevron Texaco projects located in the Caribbean and in Central America. Scopes of work have included environmental site assessments for divestiture purposes and soil/groundwater remediation projects. Since 2009, he has managed AIG Insurance site assessment and remediation projects and is currently supervising five active soil and groundwater remediation projects.

Key Projects

■ SITE REMEDIATION

Garrison Bight Marina, Key West, Florida

Project Manager: Responsible for design of modified remedial system that included site remediation of adsorbed & dissolved phase petroleum hydrocarbons in the vicinity of a former UST. Modified remedial system included soil vapor extraction (SVE), air sparging (AS) and treatment of extracted vapors by activated carbon. Remedial system operated trouble free 24 hrs/day 7 days a week for approximately 2 years. Work also included quarterly groundwater sampling, annual remedial progress reporting and negotiations with local regulators regarding Site Closure requirements.

■ SITE ASSESSMENT AND NATURAL ATTENUATION MONITORING

Sugarloaf Lodge & Marina, Sugarloaf Key

Project Manager: Performed site assessment activities including soil gas surveying, monitoring well installation, groundwater sampling, intrinsic bioremediation sampling, aquifer testing, tidal study and plume stability analysis. Based on site assessment data developed for the site, a Natural Attenuation Monitoring (NAM) Plan was submitted and approved by the FDEP.

■ SITE REMEDIATION

Chevron, Grand Cayman

Project Manager: Environmental services for site remediation involving recovery of free-phase petroleum product by both active (draw down) and passive (in-well skimming) techniques and treatment of pumped groundwater. Site includes three office buildings and 16 large, bulk storage tanks on approximately 5 acres. Developed and operated multiple free-product recovery systems in bulk storage terminal facility. Remedial action design reused existing, client-owned remedial equipment, reducing

Education

- B.S. Biology, State University of New York, College at Geneseo, 1986

Registrations & Certifications

- Hygiene, Safety, and Training School, Pittsburgh, Pennsylvania
- OSHA 29 CFR 1910.120 8-Hour Supervisor Training
- National Spill Control School, Corpus Christi, Texas
- Accredited AHERA Inspector
- Asbestos Abatement: Facility survey and building systems course
- OSHA Confined Space Entry Training
- OSHA Excavation and Trenching Safety Regulations
- OSHA Electrical Safety Training - Level I
- DDC-4 Defensive Driving Course, National Safety Council

Experience

- AMEC: 2002
- Industry: 1987

installation costs. Product recovery enhanced by active water table depression along with passive free product skimming in independent wells implemented to address free-floating petroleum product plume. Approximately 6,000 gallons of free product have been recovered. Responsible for coordination and supervision of subcontractors.

SITE REMEDIATION
Chevron, Suriname
Project Manager: Performed site remediation including removal of dissolved petroleum hydrocarbons at a retail service station on a 3/4-acre site. Involved soil vapor extraction (SVE) and treatment of extracted vapors by catalytic oxidation, removing over 3 gallons of petroleum per day (through SVE). Work included submitting weekly remedial progress updates to client, semi-annual groundwater sampling and reporting, negotiations with local regulators and managing client risk. Responsible for design of SVE remedial system modifications.

CONTAMINATION ASSESSMENT
Port Everglades, Fort Lauderdale Florida
Project Manager: Supervised one of the largest contamination assessment projects ever completed in Florida. Field activities included the installation and sampling of more than 850 soil borings and 575 monitoring wells. Other related activities included performance of an enhanced soil gas survey, aquifer analysis, tidal study, and salt water intrusion study.

REAL ESTATE TRANSFER ASSESSMENTS
Project Manager: Conducted and supervised completion of more than 75 Phase I and Phase II environmental audits for property transfer including site inspections, assessment of regulatory compliance status, determination of potential or immediate sources of on-site or off-site contamination, and estimates of level of risk associated with existing or possible contamination.

CHLORINATED ORGANICS ASSESSMENT AND REMEDIATION
Project Manager: Managed investigation of source and delineation of chlorinated hydrocarbon plume, and remediation of several sites with TCE contamination. Responsibilities included development of work plans, evaluation of remediation efforts, supervision of field activities and preparation of reports for submittal to the regulatory agencies.

CONTAMINANT ASSESSMENT AND REMEDIAL DESIGN
Chevron, Grand Cayman
Project Manager: Performed a hydrogeologic investigation of a thin fresh water lens used as a drinking water supply which was impacted by LNAPL gasoline. Investigation included soil gas surveying, temporary well installation, permanent well installation, intrinsic sampling, aquifer testing, a tidal study and mapping of sink holes. Remedial piloting testing was performed which included soil vapor extraction, air sparging, and bioremediation. Risk-based closure criteria for source concentrations were negotiated with local regulators using Bioscreen model predictions to determine property boundary concentrations. Acted as project manager and coordinated the Remedial System Installation.

CONTAMINANT ASSESSMENT AND SITE REMEDIATION
Hertz Corporation, Various Locations
Project Manager: Site soil and groundwater assessments and remediation at current and former Hertz
Rent-A-Car and Hertz Equipment Rental facilities throughout the U.S. Tasks included project management, coordination of site remediation, source removal, and correspondence with regulatory agency. Supervised removal and installation of fuel systems, site remediation involving recovery of free-phase petroleum product and reduction of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques.

CONTAMINANT ASSESSMENT AND SITE REMEDIATION
Chartis Insurance, Various Locations
Project Manager: Site assessments and remediation at current and former gas service stations throughout Florida. Supervised the remedial design and installation of SVE and air sparge remedial systems at several site to address petroleum hydrocarbon impact.

Russell E. Stauffer, PE, FLAC, MRSA, LEED AP

Industrial Hygiene Services Lead

Mr. Russell Stauffer is a Senior Environmental Engineer and Project Manager in the Building Sciences Department of AMEC's Tampa office. He has served as a site representative, project manager, and consultant of record for numerous asbestos, lead-based paint, IAQ, and radon projects. His total professional experience also includes conducting extensive asbestos and lead-based paint training classes and presentations. Mr. Stauffer's experience, prior to and including AMEC has also involved acting as client manager for more than 35 school districts and universities under term consulting agreements. In addition to being responsible for asbestos AHERA inspections, Mr. Stauffer also developed management plans, specifications, operations and maintenance (O&M) programs, and conducted OSHA-compliance training programs for numerous public and private entities. He has also conducted similar lead-based paint and IAQ activities including inspections, specification development, O&M program development, and providing HUD and OSHA required training.

Mr. Stauffer has had extensive experience in many engineering and industrial hygiene/ environmental projects. He has served as the designer of structural steel and reinforced structures, roadway and railway projects, and has provided specification development for nuclear and fossil-fuel power plants and more traditional public, commercial, and private structures. In addition, his experience has included responsibility for client meetings and presentations, project staffing, and public relations/interaction.

Key Projects

ENVIRONMENTAL, HEALTH, AND SAFETY SUPPORT SERVICES

Avaya, Inc., Locations Worldwide

EHS Compliance Assessor: Responsible for managing and performing EHS tasks at client's facilities in Florida. AMEC's scope involved strategic partnership/ staff augmentation consulting worldwide, providing EHS services and support for one of the nation's largest providers of corporate communication equipment, network cable systems, software systems, and voice/ data consultation. Activities included legal/ regulatory training, consulting support, and corporate auditing.

SCHOOL AND FACILITIES PRE-DEMOLITION AND RENOVATION ABATEMENT SERVICES

Baldwin County Board of Education, Fairhope/Robertsdale, Alabama

Principal: Responsible for technical review of services provided. Provided asbestos consulting services prior to demolition of some school facilities and renovation of others within school system supporting modernization and expansion effort. Services performed prior to partial or full demolition services at multi-facility campuses of Robertsdale Elementary School (10 buildings, 8,100 square feet) and Fairhope Middle School (11 buildings, 23,320 square feet), and prior to renovation of a single-story, multi-office Tharp Instructional Resource Center (removal of mastic tile). Services included surveys, abatement design, development of bid specifications/package, assistance with contractor selection, and project oversight.

MACDILL AIR FORCE BASE, BUILDING 805 ASBESTOS AND LEAD-BASED PAINT SURVEY

Caldesi Construction Company/U.S. Air Force, Tampa, Florida

Principal: Responsible for providing review of project activities and deliverables and developed scope of work. Provided facilities' environmental services for asbestos (NESHAP) and lead-based paint survey for an existing 3,200-square-foot single-story building of concrete block construction, with bar joists supporting a built-up roof and interior areas built out prior to renovation activities commencing.

CITRUS SPRINGS MIDDLE SCHOOL ROOF ASSESSMENT AND CONTRACT ADMINISTRATION

Citrus County School Board, Citrus Springs, Florida

Project Manager: Responsible for overseeing project activities, staffing, and scope, and visiting the site to confirm existing

Education

- M.B.A. Business Administration, University of South Florida, 1988
- B.S. Civil Engineering/ Building Construction, Temple University, 1977

Registrations & Certifications

- Professional Engineer, Florida No. 25233, New Jersey No. 24GE02390800
- Florida Licensed Asbestos Consultant, No. EA0000075
- Florida Licensed Mold Assessment
- USGBC - LEED AP
- AHERA Inspector Asbestos, U.S. No. 10798
- AHERA Management Planner Asbestos, U.S. No. 10798
- AHERA Contractor Supervisor Asbestos, U.S. No. 9711
- AHERA Project Designer Asbestos, U.S. No. 3232
- Certified Indoor Environmental Consultant, U.S. No. 0703014
- AHERA Accredited Surveyor
- AHERA Accredited Management Planner

conditions. The project scope included the assessment of a roofing system at a 175,000-square-foot middle school facility and design of corrections to identified problems and deficiencies, including follow-up assistance with contract administration and monitoring during construction repair process.

POLICE ANNEX WATER INTRUSION STUDY AND REPAIR DESIGN
City of St. Petersburg, Florida
Project Manager: Responsible for principal overview and review. Provided project technical oversight including site visits, technician supervision, and client interaction; developed plans and specifications; and provided estimated budget estimates. The scope included facilities engineering services for a water intrusion study and development of a work plan from findings of repairs to structure, including roofing for a two-story, 26,000-square-foot building constructed in the 1920s experiencing water intrusion issues.

APARTMENT RENOVATIONS
Confidential Client, Florida
Principal Engineer: Responsible for providing principal overview and review. AMEC's provided facilities engineering services including an asbestos NESHAP survey, mold assessment, and IAQ screening for renovation of two buildings in an 187,908-square-foot apartment complex comprised of 201 units, 3,314-square-foot clubhouse, and 298-square-foot laundry room.

ASBESTOS SERVICES AND ENVIRONMENTAL SITE ASSESSMENTS
District School Board of Pasco County, Various Locations, Florida
Project Manager: Responsible for developing original scopes and schedules, meeting and coordinating with client, conducting principal-level review, and providing technical oversight. AMEC provided asbestos (AHERA) services for elementary, middle, high school, charter school, and administrative facilities throughout Pasco County in conjunction with triennial reinspection schedule for presence of asbestos-containing materials. Scope of services included roof surveys, NESHAP surveys in designated buildings, abatement designs, air sampling and monitoring, and Phase I ESAs (for undeveloped site of planned school). Reports were submitted to FDEP as required.

NEWBERGER ESTATES CONTAMINATION ASSESSMENT, REMEDIATION, AND CLOSURE
Environmental Protection Commission of Hillsborough County, Lutz, Florida
Project Manager: Responsible for overseeing staff; coordinating compliance to O&M regulations; and performing quality assurance analysis of all reporting. Scope included an ESA followed by remediation design, installation, remediation system O&M, and coordination with regulatory agencies.

CLARINDA TRIANGLE
Escambia County Board of Commissioners, Pensacola, Florida
Principal: Services provided consisted of Brownsfield redevelopment, hazardous/regulated material assessment/abatement, and demo design.

JUDICIAL CENTER ASBESTOS ABATEMENT DESIGN
Manatee County, West Bradenton, Florida
Principal Engineer: Responsible for staff management, sampling and testing, and reporting all findings. AMEC's scope included abatement design of asbestos and other hazardous/regulated materials in conjunction with renovation of a historic, architecturally acclaimed courthouse and justice facility built in 1913.

JANE BANCROFT COOK LIBRARY INDOOR AIR QUALITY SERVICES
New College of Florida, Sarasota, Florida
Project Manager: Responsible for visiting site, meeting with client representative, and noting areas of concern. Assisted revisions to proposal and provided technical principal overview. The project scope included IAQ screening within two-story, 80,000-square-foot library facility, including comfort parameter, visual observations, and limited air sampling.

- NIOSH 582 Airborne Dust
- EPA Licensed Lead-Based Paint Supervisor, Florida
- EPA Licensed Lead-Based Paint Inspector/Risk Assessor, Florida
- EPA Licensed Lead-Based Paint Project Designer, Florida
- EPA – LBP Renovation, Repair & Painting Certified
- EPA/OSHA Accredited Train-the Trainer
- FEMA – ICS 100, Introduction to Incident Command System
- FEMA – ICS 210, NIMS Initial Incident Command System
- FEMA – ICS 700, Introduction – National Incident Management System

Experience
- AMEC: 1997
- Industry: 1975

Professional Affiliations
- American Industrial Hygiene Association
- American Conference of Governmental Industrial Hygienists
- Indoor Air Quality Association
- American Society of Civil Engineers
- Society of American Military Engineers
- Florida Environmental & Asbestos Council

Ashok K. Aitharaju, EI

Real Estate Development Support Services Lead/UST Site Services/
Contaminated Site Investigation and Remediation Services

Mr. Ashok Aitharaju has more than 18 years of experience in environmental engineering representing city, county, state, and private clients in contamination assessment, remediation, environmental permitting, drinking water systems testing, and surface water testing. He has performed Phase I and II ESAs, UST removals, remediation and site closures involving hydrocarbon releases, solvent contamination, and other contamination generated from varying industrial processes. He has performed remedial action monitoring and hydrogeologic assessments for petroleum-contaminated and non-petroleum sites.

His consulting engineering experience includes project scope development, proposal preparation, planning, interpretation of field and laboratory data, project management, project health and safety, efficient resource and time management, client interaction, communications with regulatory agencies, and report preparations.

Key Projects

EMERGENCY DIESEL FUEL SPILL RESPONSE, SOURCE REMOVAL, AND SITE CLOSURE

Beckman Coulter, Inc., Florida

Project Manager: Role included preparation of scope and cost estimates, scheduling and managing the field activities, liaison with regulatory agencies and guidance for report preparations, project and budget management. Managed and coordinated source removal and backfill activities related to the release of 300 to 500 gallons of diesel fuel from an emergency day tank. Emergency cleanup services included excavation and disposal of approximately 2,100 tons of impacted soils, 25,000 gallons of petroleum contact water, and regulatory negotiations to obtain site-closure. Performed post source removal site assessment for soil and groundwater delineation and prepared Source Removal and Site Assessment Reports and addendums. Activities included field oversight, management of subcontractors, and report generation. Also managed several other projects including air samples for lead dust and mercury and a Phase II environmental site assessments to evaluate the potential impacts from paint cleaning solvents and assessment of the former underground wastewater pretreatment tank, mercury testing inside the building and abatement, sanitary sewer removal and closure, and emergency fuel spill response.

LAS OLAS BOULEVARD GROUNDWATER MONITORING

City of Fort Lauderdale, Florida

Project Manager: Preparation of scope and cost estimates, scheduling and managing the field activities, regulatory agency communications project and budget management. Perform quarterly monitoring events to monitor isopropylbenzene and polynulear aromatic hydrocarbons in the groundwater. Prepared a Remedial Action Plan for removal of contaminated soil to expedite the remediation process to construct the proposed replacement pump station. Assisted the City with the bid specification preparation for the bid package for handling of contaminated soil and groundwater during construction of the pump station. It included the site safety, environmental issues such as free product and contaminated soil removal and handling, contaminated water dewatering, surface water controls, environmental permitting, and waste handling, etc.

CHICK-FIL-A SITE

Bank of America, Fort Lauderdale, Florida,

Project Manager/Client Liaison: Performed supplemental environmental site assessments at the 20,000 square-feet parking lot for Bank of America Petroleum hydrocarbon discharges were discovered during due diligence activities for a potential real estate transaction. The Phase II investigation identified Benzo(a) pyrene (BaP) in soil, and benzene and xylenes in groundwater at levels exceeding the regulatory limits. Submitted the discharge notification to Broward County and performed additional soil and groundwater assessments and remedial action plan. Performed source removal and groundwater monitoring and obtained the No Further Action closure for soil and groundwater at the site.

Education

- M.S. Environmental Engineering, Lamar University, 1993
- M.B.A. Marketing/Business Development, Pune University, 1990
- B.S. Mechanical Engineering, Kakatiya University, 1987

Registrations & Certifications

- Engineer Intern, Florida No. 1094ET005
- HAZWOPER 40-Hour
- HAZWOPER 8-Hour Refresher

Experience

- AMEC: 2002
- Industry: 2001

ENVIRONMENTAL REMEDIATION AND CONDITIONAL CLOSURE

OTO Development, LLC, Florida

Project Manager: Managed environmental tasks including phase I and II ESAs, soil and groundwater contamination delineation, remedial action plan, source removal plans, dewatering design, and permitting. Also managed dewatering activities and prepared engineering and institutional control package. Other tasks included fieldwork coordination, scheduling, staffing, regulatory negotiations, reporting, project management, quarterly groundwater monitoring, NFA with conditions closure package preparation, and coordination with client attorneys and other administrative staff for site specific legal documentation for covenant preparation.

ENVIRONMENTAL SERVICES

Miami North Western Senior High School, Florida

Project Manager: Provided environmental services during a ten year period including rapid response risk assessment of soil contamination from underground structures associated with a vocational dry-cleaning facility, contamination assessment report, remedial action plan for soils and groundwater contaminated with chlorinated solvents, regulatory negotiation, and performed concurrently with active construction at the site. Responsible for several phases of monitoring and site assessments to delineate and remediate solvent plume. This site was under natural attenuation monitoring program for several years. Subsequent shallow and deep monitoring well installations delineated the plume. Soil excavation and removals were completed. Pump test to determine the conductivity was completed. It is under quarterly groundwater monitoring with conditions closure.

BUILDING 2129 PUMP TEST

Miami International Airport, Florida

Project Manager: Oversaw the delineation of deep solvent plume, aquifer testing, groundwater sampling and pilot test. The scope included review of the reports prepared by others, and scope development and proposal preparation for aquifer pump test. Prepared pump test addendum report, coordinated, scheduled and staffed well installations, pre pump test sampling and aquifer testing. Coordinating staff, equipment and subcontractor for pump test and post pump test sampling and data analysis.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT BUILDING 66 SITE ASSESSMENT

Miami-Dade County, Florida

Project Manager: Provided soil and groundwater assessment. Technical scope and cost development for arsenic impacted soil removal, backfilling, and site restoration. Obtained bids from the subcontractors and drillers. Prepared cost proposal and negotiated the costs. Responsible for project management, coordination of internal staffing, subcontractor scheduling, and well installation drilling. Successfully managed soil remediation and post-remediation monitoring for site-closure.

FORMER RED TOP SEDAN SITE SOIL REMEDIATION

Miami International Airport, Florida

Project Manager: The site is a 20-acre property utilized for the storage and maintenance of airport shuttle buses. Several USTs containing diesel fuel, oil water separator, waste oil tank, and several hydraulic lifts were removed from the site. As a result of the UST leak, a large area of the property had free floating product and the soil and groundwater was contaminated. Remediation system was installed and several million gallons of petroleum impacted groundwater was treated. .

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Miami-Dade County Public Schools, Florida

Project Manager: Performed ESA to determine site preparation tasks necessary to construct school facility on vacant parcel adjacent to 10 acres of jurisdictional wetlands. Obtained the required wetlands permits for off-site mitigation. Provided field oversight and a geotechnical evaluation to verify that all muck was removed. AMEC has performed phase I and II ESA including test pit excavations at the site. There are wetlands identified at the site and AMEC obtained the required permits prior to any field activity. AMEC submitted a request letter for submittal to USACE for jurisdictional determination. AMEC prepared and submitted an individual ERP application with the SFWMD, DERM, and USACE.

Charlene Stroehlen, PE

Coastal Engineering Lead

Ms. Stroehlen is a Senior Associate Engineer with professional experience in stormwater treatment design, pumping system design, wetland restoration design, environmental resource permitting, Hillsborough County, Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (FDEP), Florida Department of Transportation (FDOT) and Army Corps of Engineers (ACOE) permitting, surface water modeling, wetland water budget modeling, construction bid package plans and specification preparation and construction management. She has managed many stormwater and wetland projects from the design and permitting stage through construction and final certification. Ms. Stroehlen has designed, modeled, and prepared permit applications and bid specifications as well as supervised construction for many pumping systems and thousands of acres of wetlands.

Key Projects

GEIGER KEY CULVERT DESIGN AND PERMITTING

Florida Department of Environmental Protection, Geiger Key, Florida

Principal Engineer: The project consisted of the design and permit for a culvert connection between canal No. 470 and No. 472 in Geiger Key, Florida. The objectives of the project include:

- Complete preliminary, final and corrected final design plans
- Complete hydraulic modeling of the system;
- Prepare permit packages for state, federal, and local agencies at the completion of final design plans
- Complete construction technical specifications and engineer's probable construction cost estimate.

The permitting phase included obtaining an Environmental Resource Permit from SFWMD, a Nationwide Permit from USACE, a Florida Key National Marine Santuary Permit, and a Monroe County Public Right of Way Use Permit. The project entailed holding various permitting and design meetings to ensure that the Client and Permitting Agencies were informed on the parameters of the project and to ensure the project meet the agreed upon contract schedule.

DESIGN AND PERMIT OF CANAL WATER QUALITY IMPROVEMENTS

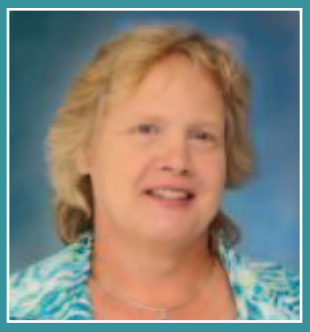
Monroe County, Florida

Principal Engineer: AMEC is working closely with Monroe County and the Canal Restoration Advisory Subcommittee of the Florida Keys National Marine Sanctuary Water Quality Protection Program to implement a canal restoration demonstration program consisting of implementation of various residential canal water quality improvements. The technologies to be implemented include: weed barriers, organic removal, backfilling, culvert installation, pumping, and combinations of these technologies. AMEC's scope consists of preparation of the design and permit packages for all the restorations, assistance with bidding the construction, and Engineering Support Services during the construction. AMEC initially assisted Monroe County in selecting the top ranked list of demonstration canals to be included in the program. AMEC is obtaining all required permits including South Florida Water Management District Environmental Resource Permit, US Corp of Engineers Dredge and Fill Permit and Florida National Marine Sanctuary Permit. AMEC is working with the Canal Restoration Advisory Subcommittee to develop a streamline permitting process for the restorations. As part of the design scope, AMEC is completing all required environmental surveys, bathymetric and topographic surveys, sediment characterization, geotechnical evaluations and hydraulic modelling. AMEC is also coordinating all homeowner approvals for staging areas and equipment installation.

MONROE COUNTY SELECTION OF DEMONSTRATION CANALS FOR WATER QUALITY IMPROVEMENTS

Monroe County, Florida

Principal Engineer: AMEC was tasked to develop a screening and ranking process to select five canal restoration demonstration projects out of the 332 canals within Unicorporated Monroe County. The technologies under consideration which have already been permitted and tested and



Education

- MBA, Florida Southern College, 1986
- B.S. Mining Engineering, University of Pittsburgh, 1980

Registrations & Certifications

- Professional Engineer/ Civil, Florida No. 58774
- e-RAILSAFE Contractor, 2012
- FEC - Florida East Coast - Contractor Safety, 2012

Experience

- AMEC: 2006
- Industry:1980

Professional Affiliations

- American Society of Civil Engineers
- American Water Resources Association
- National Society of Professional Engineers
- Society for Mining, Metallurgy and Exploration
- AWRA
- Florida Stormwater Association
- Florida Engineering Society

presented in the Canal Management Master Plan (CMMP) include:

- Removal of accumulated organics from within canals
- Weed gates, air curtains or other physical barriers to minimize additional organic accumulation in the canals
- Culvert connections to facilitate flushing
- Pumping systems to facilitate flushing
- Backfilling to remove deep stagnant zones

A report detailing the selection process methodology and results were prepared and provided to Monroe County for use in bidding the final design and permitting scope for the demonstration projects.

ROCKY CREEK LAKE ENHANCEMENT DESIGN

South Florida Water Management District, Tampa, Florida

Project Manager: Responsible for system civil, electrical, mechanical and architectural design, preparation of construction bid documents and technical specifications, and obtaining permits from FDEP, FDOT, Hillsborough County and USACE. Preparation of designs and permit, and preparation of construction bid packages for pipeline corridor to transport water from Lake Pretty to three adjacent county lakes during "high water" periods. Project consists of design and related services for three corridors, approximately 5 acres, totaling 4,000 linear feet by 50' wide. Two buildings house diesel pumps and approximately 3,500 feet of pipeline, including two jack and bores.

RIVERSIDE FILTER MARSH

City of Naples, Naples, Florida

Project Manager: Responsible for oversight of design, permitting, and construction of a stormwater treatment filter marsh for the City. Provide Engineering services to prepare designs, permits and provide construction services for a filter marsh to treat stormwater discharge from the Goodlett Road Pump Station.

DREDGING AND BANK STABILIZATION SERVICES FOR EAST CENTRAL REGION CANAL CONVEYANCE CAPACITY PROGRAM

South Florida Water Management District, Various East Region Locations, Florida

Principal: Responsible for field investigation of 100 miles of canals in South Florida. Reported canal conditions, bathymetric survey, developed hydraulic models to determine % flow reduction and designed and costed canal repairs to return canals hydraulic flow capacity and repair erosional features. Engineering evaluation services in conjunction with dredging and bank stabilization projects for the East Central Region (Okeechobee and West Palm field stations) of the District's Canal Conveyance Capacity Program, a multi-phase program to identify and schedule /prioritize dredging and restoration services to canal system to restore capacity in locations affected by siltation, encroachments and other forms of blockage. Services include review of historic data and documentation research, topographic and hydrographic surveys, field reconnaissance, and report of findings of recommendations.

CHASSAHOWITZKA HEADSPRING RESTORATION PROJECT

Southwest Florida Water Management District, Homosassa, Florida

Project Manager: This project consists of design and permitting for the dredging of the Chassahowitzka Headspring in Citrus County. Responsible for development and construction plan development for removal of sediment form the spring head. Also permitted the dredging activities and oversaw construction. Activities included archaeological investigation, selection of flocculant, dredging methodology and sediment analysis. Permits were prepared for USACE and FDEP which included reviews from USFWS and SHPO.

MASTER SERVICES AGREEMENT FOR LAKES AND WATERSHED MANAGEMENT

City of Lakeland, Lakeland, Florida

Principal Engineer: Responsible for work performed for Southwest Basin of Lake Parker BMP Analysis, an impaired waterbody covering more than 600 acres and involving 2 lakes and 17 subbasins, executed in just over two months. Environmental and engineering services under a master services agreement, providing support for lakes and watershed management for the Lakes and Stormwater Division of the county public works, involving various lake, stream and watershed areas. Services have included water quality statistical trends analysis, hydrologic and hydraulic modeling, nutrient load estimates, Best Management Practices (BMP) nutrient reduction estimates, prioritization of BMPs, conceptual designs, land acquisition cost estimates and construction cost estimates.

- Florida Institute of Consulting Engineers

Professional Development

- HAZWOPER 40 Hour, 2009
- HAZWOPER 8 Hour Refresher, 2012
- MSHA Safety Trainer, 1990

Software Proficiency

- ICPR
- XPSWMM
- HEC suite
- SPAW
- ARC View
- ACAD

Jonathan A. Bulley, PE

Contaminated Site Investigation and Remediation Services Lead/UST Site Services

Mr. Jonathan Bulley is a Professional Environmental Engineer, with more than seven years of experience for the Environment & Infrastructure sector of AMEC, and has performed environmental site assessments and remediation of contaminated soil and groundwater for many projects. His responsibilities include technical writing, research and review of regulatory reports, site visits, environmental assessments, soil and groundwater sampling, project management, project coordination, task management and proposal preparation for new projects.

Key Projects

ENVIRONMENTAL SERVICES

Beckman Coulter, Hialeah, Florida

Project Engineer: Provided environmental services at various sites in Hialeah, Florida. Projects included the spill cleanup for a 1,000-gallon diesel fuel release from an above ground storage tank at Building 740. Directed the excavation and disposal of approximately 2,100 tons of impacted soils, 25,000 gallons of petroleum contact water, and restored the site. Performed post source removal site assessment for soil and groundwater delineation and prepared Source Removal and Site Assessment Reports. Additional projects included air samples for lead dust and mercury and a Phase II environmental site assessment to evaluate the potential impacts from paint cleaning solvents and assessment of the former underground wastewater pretreatment tank.

CONTAMINATION ASSESSMENT AND REMEDIATION

Chartis Insurance, Florida

Project Engineer: Site soil and groundwater assessments and remediation at current and former gas service stations throughout Florida. Tasks included project coordination, soil and groundwater field analysis, site remediation, source removal, and correspondence with client and regulatory agencies. Conducted construction oversight of removal and installation of fuel systems, site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques, treatment of pumped groundwater by removal and elimination of dissolved petroleum hydrocarbons by Soil Vapor Extraction/Dual Phase Extraction (SVE/DPE) and air sparging (AS) techniques and treatment of extracted vapors by catalytic oxidation. Designed and assisted with the installation of SVE/AS systems at several locations. Site Safety and Health Officer on construction projects conducting daily safety meetings.

SAVANNA LA MAR FREE PRODUCT REMEDIATION

Chevron Environmental Management Company, Jamaica

Project Engineer: Developed and implemented remedial action plan for monitoring and free product recovery. The remedial action plan included the use of automated free product recovery systems to enhance product recovery rates, reduce remediation costs and timeframe required for free product remediation. Coordinated and scheduled field activities required for biweekly free product recovery activities, maintenance and optimization of recovery systems to ensure optimum operation of the systems. Coordinated and negotiated with regulatory agencies for site remediation goals. Prepared quarterly reports for submittal to the National Environment and Planning Agency of Jamaica (NEPA).

TEXACO JACKSON POINT TERMINAL

Chevron Environmental Management Company

Staff Engineer: Environmental services for site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques and treatment of pumped groundwater. Site includes three office buildings and 16 large, bulk storage tanks on approximately 5 acres. Developed and operated multiple free-product recovery systems in bulk storage terminal facility. Remedial action design reused existing, client-owned remedial equipment, reducing installation costs. Product recovery enhanced by active water table depression along with passive free product skimming in independent wells implemented to

Education

- M.S. Environmental Engineering, Florida International University, 2004
- B.S. Agricultural Science, Kwame Nkrumah University of Science and Technology, 1998

Registrations & Certifications

- Profession Engineer, Michigan No. 6201058528
- OSHA 40-Hour Hazardous Waste Operations and Emergency Response Standards
- HAZWOPER 8-Hour Refresher

Experience

- AMEC: 2004
- Industry: 2002

address free-floating petroleum product plume. Approximately 6,000 gallons of free product have been recovered (as of 2004). Assisted with redesign and modifications of remediation systems.

TEXACO TUTU SITE REMEDIATION
Chevron Environmental Management Company, St. Thomas

Project Engineer: Site remediation involving removal and destruction of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques and treatment of extracted vapors by catalytic oxidation at a half-acre retail building site. Performed TPDES permitting and monthly well gauging and reporting, quarterly groundwater sampling/reporting; and site closure negotiations with EPA and local regulators. Responsible for groundwater sampling and data collection, field and laboratory results preparation and analysis, and technical report.

TEXACO KWATTA WEG SOIL AND GROUNDWATER REMEDIATION PROJECT
Chevron Environmental Management Company, Paramaribo, Suriname

Staff Engineer: Site remediation including removal and destruction of dissolved petroleum hydrocarbons at a retail service station on a 3/4-acre site. Involved SVE and treatment of extracted vapors by catalytic oxidation, removing over 3 gallons of petroleum per day (through SVE). Work included submitting weekly remedial progress updates to client, semi-annual groundwater sampling and reporting, negotiations with local regulators and managing client risk. Responsible for design and injection of bioremediation enhancing solutions into onsite wells, soil and groundwater sampling, collection of field data, summary data preparation and analysis of field and laboratory results, technical report writing, soil vapor extraction system evaluation, operations and maintenance.

SITE GROUNDWATER REMEDIATION DESIGN, DEVELOPMENT, O&M
DME Corporation Commercial Site Fort Lauderdale, Florida

Staff Engineer: Performed site remediation, involving removal and destruction of dissolved chlorinated hydrocarbons by the groundwater pump and treat technique and treatment of pumped groundwater by air stripping, for a 3-acre site. RAP compared remedial design alternatives and site constraints and provided customer with most cost effective and timely design. Lowered contaminant levels by three orders of magnitude from system start-up. Responsibilities included preparation and timely submittal of quarterly and annual groundwater sampling reports; negotiations with local regulators and managing client risk; and system O&M / optimization. Performing sampling of groundwater; collected field data, prepared and summarized data, analyzed field and laboratory results, and wrote technical report. Negotiated conditional closure option for Site.

MIAMI INTERNATIONAL AIRPORT BUILDING 2129 PUMP
Miami-Dade County Department of Environmental Resources Management, Miami, Florida

Staff Engineer: Provided assistance with aquifer testing, groundwater sampling and remedial design.

SEAPORT DRAINAGE WELL REDEVELOPMENT AND TESTING
Miami-Dade County Department of Environmental Resources Management, Miami, Florida

Project Engineer: Cleanout, redevelopment and testing of 47 24-inch diameter storm sewer deep-drainage wells, each approximately 110 feet deep. Work also included cleanout of baffle structures, drainage inlets, drainage pipes (13,000 LF total), and trench drains. Work also included removal and disposal of sediments. Provided oversight of redevelopment of injection wells.

L.C. EVANS ELEMENTARY SCHOOL GROUNDWATER MONITORING AND REGULATORY SERVICES
Miami-Dade County Public Schools Miami, Florida

Staff Engineer: Implementation and maintenance of 5-year groundwater monitoring plan and negotiation of "No Further Action with Conditions" closure for 13.8-acre site of new elementary school facility. Conditions consisted of engineering and institutional controls. Also provided oversight for two phases of contaminated soil excavation and off-site disposal due to construction of new school. Responsible for groundwater sampling and data collection, field and laboratory results preparation and analysis, and technical report.

Wendy C. Blondin, PG

Contaminated Site Investigation and Remediation Services/Real Estate Services/ Bid and Construction Support

Ms. Wendy Blondin is a Principal Geologist with 30 years of experience in environmental consulting with expertise in contamination assessments and remediation, water quality evaluations, and all types of environment permitting. Ms. Blondin has experience in both management and technical areas.

As a senior project manager, she is responsible for work scope development and costing, implementation of work scopes, budget tracking, customer communication, and regulatory negotiations. As a professional geologist she has experience in surface water and groundwater hydrology, water quality sampling and characterization, and wetland and stormwater management system permitting. She has expertise in identifying potential source areas and areas of environmental concern; designing sampling plans; delineating contaminant plumes; determining pathways of migration; and designing and installing surface water, groundwater, and soil remediation systems. Ms. Blondin has extensive experience in evaluating risks relating to environmental impacts and in cost/benefit analysis of options.

Key Projects

■ DESIGN AND PERMIT OF CANAL WATER QUALITY IMPROVEMENTS

Monroe County, Florida

Project Manager/Project Geologist: AMEC is working closely with Monroe County and the Canal Restoration Advisory Subcommittee of the Florida Keys National Marine Sanctuary Water Quality Protection Program to implement a canal restoration demonstration program consisting of implementation of various residential canal water quality improvements. The technologies to be implemented include: weed barriers, organic removal, backfilling, culvert installation, pumping, and combinations of these technologies. AMEC's scope consists of preparation of the design and permit packages for all the restorations, assistance with bidding the construction, and Engineering Support Services during the construction. AMEC initially assisted Monroe County in selecting the top ranked list of demonstration canals to be included in the program. AMEC is obtaining all required permits including South Florida Water Management District Environmental Resource Permit, US Corp of Engineers Dredge and Fill Permit and Florida National Marine Sanctuary Permit. AMEC is working with the Canal Restoration Advisory Subcommittee to develop a streamline permitting process for the restorations. As part of the design scope, AMEC is completing all required environmental surveys, bathymetric and topographic surveys, sediment characterization, geotechnical evaluations and hydraulic modelling. AMEC is also coordinating all homeowner approvals for staging areas and equipment installation.

■ DESIGN AND PERMIT OF A CANAL WATER QUALITY IMPROVEMENT IN GEIGER KEY

Monroe County, Florida

Project Manager/Project Geologist: This scope consists of preparation of the design and permit package for installation of a culvert at the third ranked Monroe County demonstration project ranking list for a culvert connection between canal No. 470 and No. 472 in Geiger Key, Florida. AMEC is obtaining all required for permits including South Florida Water Management District Environmental Resource Permit, US Corp of Engineers Dredge and Fill Permit and Florida National Marine Sanctuary Permit. AMEC completed all required environmental surveys including determination of the boundaries of jurisdictional waters of the U.S., including mangrove wetlands. Delineation included on-site determination, marking in the field with a handheld GPS unit (sub-meter accuracy), and flagging of the aerial extent of each wetland. In conjunction with the wetland delineation, AMEC scientists conducted a threatened and endangered species survey. An AMEC scientist permitted by the FKNMS conducted an in-water survey of the benthos for the purpose of identifying the presence any sensitive aquatic resources (i.e. seagrasses, corals, or sponges) within the immediate area of the proposed project. AMEC provided the findings of the above referenced biological surveys in a project narrative (biological write-up) for submittal with the permit application.

Education

- M.S. Geology/ Hydrogeology, University of Massachusetts at Amherst, 1984
- B.S. Soil Science, University of Maine at Orono, 1979

Registrations & Certifications

- Professional Geologist, Florida No. PG1888
- FDEP Qualified Stormwater Management Inspector
- HAZWOPER 40 Hour
- HAZWOPER 8 Hour Refresher

Experience

- AMEC: 2002
- Industry:1984

Professional Affiliations

- American Water Resources Association
- Florida Association of Environmental Professionals

MONROE COUNTY CANAL MANAGEMENT MASTER PLAN – PHASE 2

Monroe County Engineering Services, Florida

Project Manager/Project Hydrogeologist: The project was funded by an EPA grant and involves completing the Canal Management Master Plan created during Phase 1 for the entire Florida Keys. All of the approximately 502 residential canals are being evaluated through field visits to determine water quality impacts and to identify appropriate cleanup options. Extensive homeowner interviews and meetings have been performed. The canals will be ranked for need for water quality improvement. An updated GIS database was prepared incorporating the new information obtained on the Keys canals related to water quality and restoration options. Evaluation of permitting requirements and initial coordination with regulatory agencies was the final task completed in this project.

MONROE COUNTY CANAL MANAGEMENT MASTER PLAN – PHASE 1

Monroe County Engineering Services, Florida

Project Manager/Project Hydrogeologist: The project was funded by a DEP grant and involved creating a Canal Management Master Plan for Florida Keys by prioritizing canals that need water quality improvement and selecting appropriate cleanup options. Phase I developed the prioritization process and applied the process to a select group of previously identified canals with water quality problems. Conceptual remedial plans were prepared for several of the highest priority canals and funding sources identified to obtain funding for implementation of the remedial plans.

MONROE COUNTY CANAL BATHYMETRY AND SEDIMENT CHARACTERIZATION

Monroe County Engineering Services, Florida

Project Manager: This project consists of performing bathymetric surveys to determine the average depths of all residential canals in the Keys. The surveys are being performed using automated hydrographic survey equipment consisting of a dual frequency echo sounder used in conjunction with a GPS positioning system located on a survey boat. This survey will provide information on the total depth of the canals and the accumulated sediment in the canals. Additionally, ten samples of the unconsolidated materials are being collected utilizing a piston tube sampler and submitted for physical and chemical characterization to assist in refining the design for removal and disposal of the material from the canal bottoms.

KISSIMMEE RIVER AQUIFER STORAGE AND RECOVERY WELL PILOT TEST SITE

U.S. Army Corps of Engineers, Florida

Project Manager/Project Hydrogeologist: The scope of services included development of all sampling and analysis plans (field sampling plan, QA project plan, and ADaPT library); weekly sample collection from the ASR well, surfacewater, and groundwater monitoring well network; laboratory analysis of a broad range of geochemical parameters and ecotoxicity testing; and ADaPT data review and reporting. The main purpose of the sampling was to meet all state and federal permit requirements including NPDES, CERPRA and UIC. The data will additionally be evaluated to determine the geochemical and microbiological changes during the different cycles of recharge, storage, and recovery and will be utilized to determine the feasibility of ASR as part of the Comprehensive Everglades Restoration Project.

REMEDIATION AT VARIOUS SITES IN MIAMI-DADE COUNTY

Miami-Dade County Public Schools, Florida

Project Manager/Project Hydrogeologist: Multiple site contract involving environmental services to determine environmental concerns at properties being considered for construction of schools and implementation of required remedial actions. Environmental services including ESAs, soil characterization, risk assessments, remedial planning and oversight, and regulatory/environmental compliance for existing and proposed school sites throughout the county. Services provided under master services agreement from 2004 to 2014 and included sites in the cities of Miami and North Miami, and unincorporated areas. Environmental concerns were identified including former landfills, industrial discharges, and agricultural chemical residues. Remedial alternative evaluation/costing and site cleanup was performed at numerous sites to allow schools to be built on schedule.

Jeremy Paris, PWS

Contaminated Site Investigation and Remediation Services/Real Estate Services

As a Staff Scientist with AMEC, Mr. Jeremy Paris is a valuable resource in a range of environmental services, biological assessments, and wetland delineations. Mr. Paris has a portfolio of wetland biology and environmental sciences for the South Florida and Southwest Florida Water Management Districts, United States Department of Defense, and the National Parks Service. As a wetland biologist, Mr. Paris' responsibilities include technical writing, research, and review of regulatory statutes, vegetative restoration, wetland determinations, species identification, and mangrove protection. Serving as an environmental scientist, Mr. Paris participates in stormwater, groundwater, effluent, and soil sampling.

Key Projects

MONROE COUNTY CANAL MASTER PLAN (PHASE I & II) 2012-2013 – WATER QUALITY MONITORING AND BIOLOGICAL EVALUATION

Monroe County, Florida

Field Scientist: Field Scientist. Conducted water quality monitoring and limited biological assessments on several hundred canals throughout Monroe County, Florida. During Phase I, utilized data sets developed during his canal visits as well as, existing information to rank a subset of canals for potential restoration.

9R-27L RUNWAY EXPANSION

Broward County Aviation Department, Ft. Lauderdale, Florida

Field Scientist: Providing ecological services and permit compliance monitoring for the expansion of the 9R-27L runway at Ft. Lauderdale-Hollywood International Airport (FLL). Ecological services include implementation and review of daily inspection reports for compliance as well as oversight of the Manatee and Indigo Snake Protection education plan and migratory bird nest removal activities. Protected species include the burrowing owl, wood stork, and crested caracara. Developed an environmental permit matrix for the purpose of tracking environmental regulatory requirements for the project.

ECOLOGICAL EVALUATIONS AND PERMITTING SERVICES

All Aboard Florida, South Florida

Field Scientist: Conducted wetland and benthic surveys in support of the All Aboard Florida High Speed Rail project, as well as completed the associated coastal and aquatic ecosystem permitting requirements for Miami-Dade and Broward Counties in South Florida. Prime author of the permits sections dedicated to the ecological surveys.

GEIGER KEY CULVERT DESIGN AND PERMITTING

Florida Department of Environmental Protection, Geiger Key, Florida

Staff Scientist: The project consisted of the design and permit for a culvert connection between canal No. 470 and No. 472 in Geiger Key, Florida. Mr. Paris completed a benthic and wetland survey that . The permitting phase included obtaining an Environmental Resource Permit from South Florida Water Management District, a Nationwide Permit from the Army Corps of Engineers, a Florida Key National Marine Santuary Permit, and a Monroe County Public Right of Way Use Permit. The project entailed holding various permitting and design meetings to ensure that the Client and Permitting Agencies were informed on the parameters of the project and to ensure the project meet the agreed upon contract schedule.

DESIGN AND PERMITTING

Village of Islamorada, Florida

Staff Scientist: The project consisted of the design and permit for a weed barrier system and upgrade existing aeration system at canal No. 137 in Village of Islamorada, Florida. Mr. Paris authored the permit sections related the ecological conditions at the site which included seagrass, mangrove, and coral surveys. The project entailed holding various permitting and design meetings with the regulatory agencies to ensure that the Client and Permitting Agencies were informed on the parameters of the project and to ensure the project meet the agreed upon contract schedule.

Education

- M.S. Wetland Ecology, University of Florida, 2005
- B.S. Plant Science, University of Tennessee, 2001

Registrations & Certifications

- Professional Wetland Scientist, No. 2306
- USACE-approved Indigo Snake Monitor
- USACE-approved Bird Monitor

Experience

- AMEC: 2009
- Industry: 2005

STORMWATER MANAGEMENT PROGRAM

Broward County Aviation Department, Florida

Lead Scientist: The Broward County Aviation Department (BCAD) operates two airports within Broward County, Florida. AMEC was tasked with managing BCAD's entire stormwater management program, which included stormwater monitoring, data review, reporting, NPDES permitting, tenant inspections, and the NPDES compliance training program administered to the airport staff. Primary author of the Annual Comprehensive Site Evaluation Report and the annual Stormwater Monitoring Report.

WETLAND RESERVE PLAN

Department of Agriculture/National Resource Conservation Services, Kissimmee Oaks and Oxbow, Okeechobee, Florida

Wetlands Specialist: The Kissimmee Oaks and Oxbow easement is approximately 536 acres located in western Okeechobee County, Florida. AMEC was contracted by the USDA-NRCS to prepare a WRPO for the Easement Restoration Agreement between USDA-NRCS and the landowners of the Kissimmee Oaks and Oxbow Ranch. The project was broken down into three phases to achieve historic ecological communities of the aforementioned site. Responsible for the ecological surveys at the site. This included extensive data collection on quality of habitats, vegetation classification, identifying protected species habitats, and identifying presence of invasive species. He was the prime author of the report sections dedicated to ecological surveys and conservation practices.

FLORIDA KEYS OVERSEAS HERITAGE TRAIL

Florida Department of Environmental Protection, Monroe County, Florida

Wetlands Scientist: Developed pre-construction plans for the restoration of three disturbed sites located within the Crocodile Lake National Wildlife Refuge. The plans were a U.S. Fish and Wildlife requirement for the loss of wood rat habitat as part of the trails project. Designed the planting plan and invasive species management plan.

HERBERT HOOVER DIKE REHABILITATION ECOLOGICAL SERVICES

U.S. Army Corps of Engineers, Jacksonville District/Hayward Baker, Inc, St. Lucia Waterway, Florida

Field Scientist: Ecological services in conjunction with installation of subsurface barrier system during rehabilitation of Herbert Hoover Dike, surrounding Lake Okeechobee, in South Florida. Ecological services included development and presentation of Environmental Protection Plan and Indigo Snake Protection/ Education Plan and ecological monitoring and initial site surveys for threatened and endangered species, and for migratory bird nests during construction activities. Responsible for identification of migratory birds and endangered plant and animal species.

MIAMI-DADE EXPRESSWAY EXPANSION

Miami-Dade County, Florida

Field Sceintist: In accordance with the with the Florida Department of Transportation (FDOT) Project Development and Environment Manual (PD&E), Delineated and ecologically assessed through the Uniform Mitigation Assessment Method (UMAM) the ecological benefits of the wetlands located within the transportation corridor. Performed an Endangered Species and Biological Assessment of the numerous habitat features (i.e. canals, lakes, vegetated swales) which exist within the proposed area for development. Project activities also included reviewing the existing South Florida Water Management District's (SFWMD) Environmental Resource Permit (ERP). Acting on behalf of MDX and their representatives, attended public scoping meeting that detailed the projects benefits and impacts.

STATE SCHOOL T-1 ENVIRONMENTAL PERMITTING

Miami-Dade County Public Schools, Doral, Florida

Field Scientist: The project required the review of the existing SFWMD ERP and Dredge and Fill Permits for completeness.

Daniela De Rossi, RA, NCARB

Industrial Hygiene Services

Ms. Daniela De Rossi has more than 10 years of professional architectural experience in the architectural/construction field. She has knowledge of the practices involved in architecture, design and construction, and related engineering aspects involving different building types and levels of complexity to include multiple office buildings, warehouses, religious institutions, and mid-rise multi-family and single family residences. Ms. De Rossi's professional experience includes the coordination and production of construction documents, planning and design, specifications, program development, and implementation of building projects.

Ms. De Rossi has been responsible for review and coordination of architectural, civil, structural, mechanical, electrical, plumbing, landscape, and fire protection plans with clients, engineers, contractors, and trade manufacturers for completeness and compliance with local, state, and federal government agencies and government officials having jurisdiction over projects. She has knowledge of current building and zoning codes, laws, and regulations, and the ability to understand their impact on different building types.

Key Projects

MIAMI-DADE COUNTY COURTHOUSE COMPREHENSIVE ASBESTOS SURVEY

Miami-Dade County Internal Services Department, Miami, Florida

Project Manager: AMEC performed monitoring services to determine if asbestos-containing materials exist within the existing building constructed in 1925. Responsible for project coordination of asbestos sampling and testing services, including client meeting, walkthrough, writing proposal, coordination of the team performing the asbestos survey and writing report with findings.

MIAMI-DADE COUNTY SCALE HOUSE LIMITED ASBESTOS SURVEY

Miami-Dade County Public Works and Waste Management, Miami, Florida

Project Manager: AMEC performed monitoring services to determine if asbestos-containing materials exist within the existing building scheduled for demolition. Responsible for project coordination of asbestos sampling and testing services, including client meeting, walkthrough, writing proposal, coordination of the team performing the asbestos survey and writing report with findings.

HUGH TAYLOR BIRCH STATE PARK RESTROOMS RENOVATIONS

Florida Department of Environmental Protection, Fort Lauderdale, Florida

Architect: Provided architectural and engineering services, construction documents, permitting, and construction services for the renovation design of the park's restroom facilities to meet ADA compliance. The renovation included the expansion of the existing buildings' footprint, replacement of all restroom fixtures, and upgrade of any deteriorated mechanical, electrical and plumbing components to improve efficiency. In addition, the existing access routes and entry ways were redesigned to provide proper access.

BROWARD COUNTY COURTHOUSE WATER AND AIR INFILTRATION TESTING SERVICES

Broward County, Fort Lauderdale, Florida

Project Manager: AMEC performed air and water infiltration monitoring services at the Broward County Courthouse building under construction. The testing was performed to determine if the curtain wall system complied with the architect's specifications. Responsible for project coordination of the testing services, including client meeting, walkthrough, writing proposal, coordination of the team performing the testing and writing report with findings.

LEAD PAINT BASED SURVEY

Miami-Dade County Community Action and Human Resources Department, Miami, Florida

Project Manager: AMEC performed

Education

- B.A. Architecture, Florida Atlantic University, 2008
- B.S. Architectural Design, Florida Atlantic University, 2002

Registrations & Certifications

- Registered Architect, Florida No. AR96423
- Registered Interior Designer, Florida No. ID006010
- NCARB, United States No. 75536

Experience

- AMEC: 2013
- Industry: 2000

lead testing services to three low-income residences scheduled for renovation. Responsible for project coordination of lead paint sampling and testing services, including client meeting, walkthrough, writing proposal, coordination of the team performing the testing.

REPAIR AND ALTERATION DESIGN SERVICES
United States Postal Service, Nationwide
Project Manager: Provided architectural and engineering services, including field assessments and design of renovations for several United States Postal Service facilities.

HOME CHEMICAL COLLECTION CENTER OFFICES
Westhorp and Associates, Miami, Florida
Senior Architect: Provided architectural and engineering services for the design of a new office building for the Home Chemical Collection Center of Miami-Dade County Public Works and Waste Management Division. Designed new infrastructure to serve the new facility, including architecture/ engineering construction documents, permitting, and construction services

RESIDENCIA JESUS MAESTRO CATHOLIC HOUSING
Agrupacion Catolica Universitaria, City of Miami, Florida
Project Manager: Project included a seven-story building complex overlooking Biscayne Bay composed of 30 dormitories. The project was developed to include an environment that fosters close relationships, outdoor sports, and social activities. Responsible for managing and coordinating the development of architectural, civil, landscape, structural, mechanical, electrical, fire protection, and plumbing disciplines for construction documents of the 51,000-square-foot building. Amenities include a library, chapel, meeting rooms, and large balconies.

PALMETTO BAY POINT BUILDING
Isaac's Roofing HQ, Village of Palmetto Bay, Florida
Project Manager: Project included a two-story commercial office building. Responsible for managing and coordinating the development of architectural, civil, landscape, structural, mechanical, electrical, fire protection, and plumbing disciplines for construction documents of the 18,000-square-foot building.

COMMUNITY CENTER/DORMITORY BUILDING
Southeast Pastoral Institute, Miami, Florida
Project Manager: Project included a one-story community center composed of 10 dormitories. Amenities include a library, chapel, and a dining/meeting room. Responsible for managing and coordinating the development of architectural, civil, landscape, structural, mechanical, electrical, fire protection, and plumbing disciplines for construction documents of the 4,000-square-foot building.

CENTRO ASISTENCIAL ROSARIO DE LA CUEVA, CORPUS CHRISTI CATHOLIC CHURCH
Miami, Florida
Project Manager: Project included a one-story primary healthcare facility. Responsible for managing and coordinating the development of architectural, civil, landscape, structural, mechanical, electrical, fire protection, and plumbing disciplines for construction documents of the 2,800-square-foot building.

FACILITIES MANAGEMENT PROGRAM
Collier County Public Utilities Department, Florida
Project Architect: Assisted the County in developing a facilities management program that identified 14 manned facilities within the department's control. Reviewed available maintenance records and AutoCAD files and conducted interviews with each corresponding building managers to assess existing conditions. Developed site specific inspection plans that addressed ADA, electrical, HVAC, structural, roofing, building envelope, indoor air quality, plumbing, security, low voltage, signage, pest control, and fire and safety related issues so that short- and long-\term maintenance and budgeting requirements could be identified. Created baseline building assessment reports for each facility that identified its current condition, the immediate, five-year, and 10-year maintenance or replacement requirement, and provided a preventative maintenance schedule for each major system. Responsibilities included analyzing and prioritizing the items identified in the program.

Jose R. Perez, AIA, LEED AP, CGC

Industrial Hygiene Services

Mr. Jose Perez possesses more than 35 years of professional architecture experience. He has extensive knowledge in the management, design, and construction of institutional, commercial, educational, and residential facilities for municipal and state governments, as well as private and corporate clients. Mr. Perez's professional experience also includes construction administration, real estate, and professional administration.

Mr. Perez has worked for several municipalities, including Miami-Dade County, where he was responsible for planning, directing, and coordinating major, minor, and renovation construction projects to ensure compliance with county building codes, laws, and applicable regulations. He was responsible for the development and fiscal management of new construction projects; renovations of/or additions to existing facilities; asbestos abatement; interior design; and signage/graphic design. He also managed architecture engineering design professionals, interior design and space planning professionals, construction managers, and construction trade groups involved in the production of construction plans, specifications, construction management, and construction work. Mr. Perez has experience in the management of large building construction programs, building facilities maintenance, and preventive maintenance for projects extending from $1 million to $650 million.

Key Projects

FACILITIES MANAGEMENT PROGRAM

Collier County Public Utilities Department, Florida

Principal-in-Charge: Assisted the County in developing a facilities management program that identified 14 manned facilities within the department's control. Reviewed available maintenance records and AutoCAD files and conducted interviews with each corresponding building managers to assess existing conditions. Developed site specific inspection plans that addressed ADA, electrical, HVAC, structural, roofing, building envelope, indoor air quality, plumbing, security, low voltage, signage, pest control, and fire and safety related issues so that short- and long-\term maintenance and budgeting requirements could be identified. Created baseline building assessment reports for each facility that identified its current condition, the immediate, five-year, and 10-year maintenance or replacement requirement, and provided a preventative maintenance schedule for each major system.

GENERAL SERVICES ADMINISTRATION: DESIGN AND CONSTRUCTION

Miami-Dade County, Florida

Project Coordinator: Responsible for preparation before, during, and after Hurricane Katrina and Hurricane Wilma, the deadliest and most destructive Atlantic hurricanes of the 2005 season. Coordinated Design and Construction (DCS) staff assigned to Miami-Dade's emergency operations center. Coordinated pre-storm preparedness procedures and provided design and construction support for all Miami-Dade County facilities damaged by the storm.

HAMMOCKS COMMUNITY PARK

Miami-Dade County, Florida

Project Manager: Responsible for supervising arsenic remedial work.

NORTHEAST REGIONAL LIBRARY

Miami-Dade County, Florida

Owner's Representative: The project consists of a new one-story concrete and steel building, with two landscaped "green" courtyards. The total footprint of the building, including the courtyards and non-conditioned areas, will be 28,000 square feet. The facility is designed to achieve a Silver certification from the U.S. Green Building Council.

911 EMERGENCY OPERATIONS/ COMMAND CENTER

Miami-Dade County, Florida

Project Director/Architect/General Contractor: Directed the State of Florida Enhanced 911 (E911) Board State Grant Program to support the Miami-Dade Police Department (MDPD). Designed and constructed interiors for a new primary Public Safety Answering Point as a regional center for Miami-Dade County. Designed and built new infrastructure to serve the new facility,

Education

- B.A. Architecture, University of Miami, 1983

Registrations & Certifications

- Registered Architect, Florida No. AR0013549
- Registered Interior Designer, Florida No. ID002745
- Registered General Contractor, Florida No. CGC026708
- Registered Real Estate Agent, Florida No. SL0491033
- LEED Accredited Professional

Experience

- AMEC: 2012
- Industry: 1983

Professional Affiliations

- U.S. Green Building Council
- American Institute of Architects

Additional Languages

- Spanish

including architecture/engineering construction documents, permitting, and construction services.

CARL F. SLADE PARK/E-LIBRARY AND SUB-POLICE STATION
City of Hialeah, Florida
Architect/General Contractor: Responsible for supervising and managing design professionals in architecture, civil/structural, electrical, plumbing, and mechanical disciplines involved in the production of construction plans, specification, and construction of a new 20,000-square-foot police station and park, which includes a recreation building and concession stand, two lighted little league baseball fields, one lighted baseball field, two lighted tennis courts, one lighted junior inline hockey rink, a children's playground, and gazebo with a picnic table.

CITY HALL
City of Hialeah, Florida
Architect/General Contractor: Responsible for supervising and managing design professionals in architecture, civil/structural, electrical, plumbing, and mechanical disciplines involved in the production of construction plans, specification, and construction for the conversion of an existing fire station to expand the City's permit and inspection department. The work included the design of a new ceramic tile mural installed on the west facade.

MIAMI-DADE PARKS AND RECREATION DEPARTMENT
Miami-Dade County, Florida
Architect/General Contractor: Worked on numerous park construction, fencing, tennis court resurfacing, and trails re-construction and re-surfacing projects, including the Key Biscayne Tennis Centre and Golf Course.

MCDONALD PARK
City of Hialeah, Florida
Architect: Responsible for the design of an E-library and community police station, event pavilions, children's playground, and 4-acre lake walking trail. Supervised and managed design professionals in architecture, civil/structural, electrical, plumbing, and mechanical disciplines involved in the production of construction plans, specification, and construction of the park.

FIRE STATION 5
City of Hialeah, Florida
Architect/General Contractor: Responsible for the re-design of the exterior and interior of the existing fire station. Supervised and managed design professionals in architecture, civil/structural, electrical, plumbing, and mechanical disciplines involved in the production of construction plans, specification, and construction of the fire station.

MAIN POLICE HEADQUARTERS
City of Hialeah, Florida
Architect/General Contractor: Responsible for the redesign of the main police headquarters facade and interior improvements. Supervised and managed design professionals in architecture, civil/structural, electrical, plumbing, and mechanical disciplines involved in the production of construction plans, specification, and construction of the main police headquarter.

CDBG GRANTS AND FACADE RESTORATION PROJECTS
City of Hialeah, Florida
Architect/General Contractor: Worked on CDBG grants for various locations within the City of Hialeah limits, including Palm Avenue. Responsible for providing technical assistance to the finance department that distributed CDBG grants to local merchants for redesign of the facades on existing buildings located on main public corridors.

MIAMI-DADE COUNTY COURTHOUSE
Miami-Dade County, Florida
Owner's Representative: The courthouse, located in Miami's Central Business District, was the tallest building in Miami-Dade County in 1925. The project consists of the repair or replacement of the facades terra-cotta tiles, waterproofing and sealing the windows, roof repairs, and replacement of exterior roof lights.

ROBERTO CASA PARK
City of Hialeah, Florida
Architect: Responsible for supervising and managing design professionals in architecture, civil/structural, electrical, plumbing, and mechanical disciplines involved in the production of construction plans, specification, and construction of a new 5-acre park. The project included a recreation building, general purpose field area, children's playground, sand volleyball/soccer area, two basketball courts, exterior fitness area, and sidewalks.

Derek H. Levy

Industrial Hygiene Services

Mr. Derek Levy is a Construction Engineering Inspector. He has working construction knowledge of residential and commercial utility infrastructure projects. His experience includes field oversight of roadway improvements, utility infrastructure replacements, and the installation of new storm water drainage systems. Mr. Levy has a thorough understanding of the State's and Collier County rules and regulations pertaining to construction and building codes. He has performed numerous asbestos surveys and samples, as well as concrete testing and sampling in South Florida.

Key Projects

- **HAMMERHEAD OVERSIGHT DESIGNATED DRIVEWAY**
  Collier County, Florida
  Construction Engineering Inspector: Provided oversight for Collier County Hammerhead program. The program involved the renovation and improvements of residential neighbourhoods to provide county vehicles with better maneuverability. Project required close interaction with residents to minimize interruptions.

- **NORTH WEST 87TH AVENUE**
  Miami, Florida
  Construction Engineering Inspector: Collected concrete samples for structural integrity testing. Testing was needed to confirm concrete was in compliance with design specifications. Project was part of the complete renovation of North West 87th Avenue.

- **MIAMI DADE COURTHOUSE**
  Miami, Florida
  Construction Engineering Inspector: Conducted an asbestos survey to calculate total cost of testing. Executed asbestos sampling without disrupting or inconveniencing building occupants.

- **FISHER ISLAND CONSTRUCTION INSPECTION AND MATERIALS TESTING**
  Miami, Florida
  Construction Engineering Inspector: Conducted density testing for various lifts throughout construction, as well as concrete sampling and testing.

- **BROWARD COUNTY COURTHOUSE**
  Fort Lauderdale, Florida
  Construction Engineering Inspector: Performed window testing of new courthouse building at the request of the client.

Education

- B.S. Engineering, Florida Gulf Coast University, 2013

Registrations & Certifications

- AHERA Building Inspector Course, 160084, Course No. SE1415
- Lead 24-Hour Paint Inspector Course, 160145, Course Number SE1416
- FDOT CTQP Earthwork Construction Inspection Level 1
- FDOT Intermediate Maintenance of Traffic
- Portable Nuclear Gauge Safety Certification

Experience

- AMEC: 2014
- Industry: 2014

Carol L. Thoma, MPH, MRSA

Industrial Hygiene Services

Ms. Carol Thoma has more than two decades of experience in comprehensive safety and health disciplines. Ms. Thoma's skills include ergonomic evaluation, industrial hygiene monitoring, indoor air quality surveys, asbestos facility surveys, lead-based paint inspections, preparation of technical reports, and the implementation of cost-effective strategies.

Key Projects

- **MACDILL AIR FORCE BASE, BUILDING 805 ASBESTOS AND LEAD-BASED PAINT SURVEY**
  Caldesi Construction Company/U.S. Air Force, Tampa, Florida
  Project Manager: Responsible for coordinating with client and base representatives for site visit and provided scheduling, report preparation, and approved invoicing. Project scope included facilities environmental services for asbestos (NESHAP) and lead-based paint survey for an existing 3,200-square-foot single-story building of concrete block construction, with bar joists supporting a built-up roof and interior areas built out, prior to renovation activities commencing.

- **ASBESTOS SERVICES AND ENVIRONMENTAL SERVICES**
  University of South Florida
  Tampa, Florida
  Project Manager: Responsible for coordinating final scheduling and site access of projects, setting up staffing schedules, developing final reports, assisting with client meetings, and handling invoices. Scope of work included asbestos (AHERA) services. Scope of services included roof surveys, NESHAP surveys in designated buildings, abatement designs, air sampling and monitoring.

- **APARTMENT RENOVATIONS**
  Confidential Client, Clearwater, Florida
  Project Coordinator: Responsible for coordinating site visit and site access, scheduling staff, and assisting in field investigations and development of final reports. Project scope involved facilities engineering services including asbestos NESHAP survey, mold assessment, and IAQ screening for renovation of two buildings in an apartment complex comprised of 201 units (187,908 square feet), a 3,314-square-foot clubhouse, and a 298-square-foot laundry room.

- **ASBESTOS SERVICES AND ENVIRONMENTAL SITE ASSESSMENTS**
  District School Board of Pasco County, Florida
  Project Coordinator: Responsible for coordinating final scheduling and site access of projects, setting up staffing schedules, developing final reports, assisting with client meetings, and handling invoices. Scope of work included asbestos (AHERA) services for elementary, middle, high school, charter school, and administrative facilities throughout Pasco County in conjunction with a triennial (three-year) reinspection schedule for presence of ACMs. Scope of services included roof surveys, NESHAP surveys in designated buildings, abatement designs, air sampling and monitoring, and a phase I ESA (for undeveloped site of planned school). Reports were submitted to FDEP as required.

- **BRIDGE INSPECTION AND ASBESTOS SURVEYS**
  Florida Department of Transportation Districts 1 and 7/PB Americas, Inc., Florida
  Senior Technician: Responsible for collecting samples, testing arrangements, interpreting results, and scheduling. Project scope included asbestos surveys for various bridge structures under renovation in the two Districts.

- **NESHAP SERVICES AND ASBESTOS PRE-RENOVATION SURVEY**
  Confidential Client, Clearwater, Florida
  Project Coordinator: Responsible for conducting site visits, coordinating final scheduling and site access, and setting up staffing schedules. Also assisted with

Education

- M.S. Public Health Industrial Hygiene/Safety Management, University of South Florida, 2000
- B.S. Education, Florida State University, 1984

Registrations & Certifications

- Mold Assessor, Florida No. MRSA2178
- Asbestos Consultant Management Planner Asbestos, Florida No. 20337
- Asbestos Consultant Inspector Asbestos, Florida No. 20335
- Asbestos Consultant Supervisor Asbestos, Florida No. 20300
- Certified Indoor Air Quality Consultant Technician Air Quality, Florida
- Certified Operator XRF Spectrum Analyzer Technician Radiation, Florida No. A4042940885
- EPA Certified Air Monitoring Technician Hazardous Materials, Florida
- EPA Certified Designer Air Quality, Florida
- Lead-Based Paint Assessor Lead-Based Paint, Indiana No. LRLI-233

field investigations and development of final reports. The project scope involved quick-response pre-renovation NESHAP survey and asbestos consulting services for designated area of approximately 15,000 square feet at a resort hotel facility involving exterior canopy, front entrance, lobby, restaurant, and bar planned for renovations.

JANE BANCROFT COOK LIBRARY INDOOR AIR QUALITY SERVICES

New College of Florida, Sarasota, Florida

Project Coordinator: Responsible for coordinating the site visit, final scheduling, site access, and project staffing schedules. Also assisted with field investigations and development of final reports. Scope involved IAQ screening within the two-story, 80,000-square-foot library facility, including comfort parameter, visual observations, and limited air sampling.

DUNEDIN ELEMENTARY SCHOOL NESHAP SURVEYS AND ASBESTOS SERVICES

Pasco County School Board, Largo, Florida

Project Manager: Responsible for setting up the project, scheduling personnel and assignments, and handling invoicing. Project scope called for two NESHAP surveys, including original three-year survey and follow-up asbestos survey with closure of a 12-building educational complex (dating to 1950s) and preparation for demolition; follow-up survey served to augment original. With subsequent school board decision to rescind scheduled demolition and instead renovate facility, the AMEC team provided on-site monitoring of abatement effort.

KIRBY-SMITH CENTER ASBESTOS ABATEMENT SERVICES

School Board of Alachua County, Tampa, Florida

Project Coordinator: Responsible for coordinating site visits including access; developed project setup and final scheduling for tasks; and assisted with development of final specifications and reports. Scope involved asbestos surveys, work plan development, and air monitoring for asbestos abatement services at the Board of Education offices, classrooms, meeting rooms, and auditorium (dating back to year 1900).

ENGINEERING BUILDING II ROOF WATER INTRUSION ASSESSMENT

University of South Florida/Meyer Associates, Inc., Tampa, Florida

Project Coordinator: Project involved a three-story engineering facility with a footprint of 47,000 square feet with additional floors in raised central tower. Responsible for the assessment of a water intrusion area emanating from roofing and associated elevated roofing walls of facility. Assessments included use of visual, instrumentation, and localized semi-destructive openings of noted suspect areas and/or features. Responsible for adherence to project scope, assisting with field assessment activities, and assisting in field investigations. Also developed draft report.

ANNA MARIA BRIDGE ENVIRONMENTAL INVESTIGATION

Florida Department of Transportation District 1, Bradenton Beach, Florida

Project Coordinator: Responsible for coordinating site visit and site access, scheduling staff, and assisting in field investigations and development of final reports. Scope included an environmental investigation for presence of asbestos, lead-based paint, or PCBs in conjunction with work on Anna Maria Bridge (SR 64) over Sarasota Pass of intercoastal highway in Manatee County.

PLATT STREET BRIDGE ENVIRONMENTAL INVESTIGATION

Florida Department of Transportation, Tampa, Florida

Project Coordinator: Responsible for coordinating site visit and site access, scheduling staff, and assisting in field investigations and development of final reports. Project scope included an environmental investigation for presence of painting condition and lead-based paint in conjunction with work on the bridge in Hillsborough River.

- Lead-Based Paint Inspector, Florida No. 7ME04160701EDIR004
- Lead-Based Paint Assessor, Florida No. 7ME04170701EDER002

Experience

- AMEC: 2005
- Industry: 1987

Professional Affiliations

- Florida Association of Environmental Professionals

Mark Kearns
UST Site Services

Mr. Mark Kearns is an Environmental Scientist with four years of experience working for the Environment & Infrastructure sector of AMEC. He has a total of one year experience working internships throughout college. His responsibilities include technical writing, research and review of regulatory reports, site visits, environmental assessments, and field sampling.

Throughout his career, he has performed assessments of contamination at petroleum and non-petroleum sites. These studies included soil and groundwater sampling, soil screening, interpretation of chemical analyses, determination of pollutants and their extent in the soil and groundwater, geological description, client and regulatory correspondence and report compilation. Mr. Kearns has participated in the sampling and analytical interpretation of groundwater contamination at various sites. He has taken part in the sampling and interpretation of groundwater contamination of volatile and semi-volatile components, metals, as well as chlorinated hydrocarbons as part of contamination assessments under the UST and hazardous waste programs. Mr. Kearns has been involved in the supervision of soil and groundwater remediation system installations and tank removals in both the U.S. and abroad in Central and South America and the Caribbean.

Key Projects

FUEL / CHEMICAL STORAGE TANK ASSESSMENT
Chevron Environmental Management Company Texaco, 25 Sites, Guatemala.
Environmental Scientist – Was in charge of performing the site assessment, contamination assessment, Phase I assessment, report writing and other services including operation of a Geoprobe Direct Push Technology drill rig. Responsible for supervising subcontractors and other AMEC personnel on site. Responsible for safe work environment, per Client and AMEC specs.

FUEL / CHEMICAL STORAGE TANK ASSESSMENT
Chevron Environmental Management Company Texaco Guatemala ECR Sites, Guatemala City
Environmental Scientist – Supervised the tank removal assessment, site assessment, contamination assessment, Phase I assessment, report writing and other services. Responsible for supervising subcontractors and other AMEC personnel on site. Responsible for safe work environment, per Client and AMEC specs.

SERVICE STATION SITE REMEDIATION
Chevron Corporation, Paramaribo
Environmental Scientist – Completed environmental Site remediation, including removal and destruction of dissolved petroleum hydrocarbons at a retail service station on a 3/4-acre site. The remediation work involved soil vapor extraction (SVE) and treatment of extracted vapors by catalytic oxidation, removing over 3 gallons of petroleum per day (through SVE). Participated in submitting weekly remedial progress updates to client, as well as semi-annual groundwater sampling and reporting. The work included negotiating with local regulators and managing client risk. Responsible for supervising site assessment activities.

CONTAMINATION ASSESSMENT AND REMEDIATION
Chartis Insurance, Florida
Environmental Scientist – Site soil and groundwater assessments and remediation at current and former gas service stations throughout Florida. Tasks included project coordination, soil and groundwater field analysis, site remediation, source removal, report writing and correspondence with client and project manager. Conducted construction oversight in the removal and installation of fuel systems, site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques, treatment of pumped groundwater by removal and elimination of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques and treatment of extracted vapors by catalytic oxidation.

Education
- Bachelor of Science, Anthropology/Archaeology, Millsaps College, 2008

Registrations & Certifications
- MIA Badge
- OSHA 8-Hour HAZMAT/ Health and Safety
- CPR and First Aid Training
- Qualified Stormwater Management Inspector

Experience
- AMEC: 2008
- Industry: 2007

Site Safety and Health Officer, conducted daily tail-gate safety meetings prior to field activities.

I-595 CORRIDOR IMPROVEMENT PROGRAM

FDOT, Ft. Lauderdale, Florida

Environmental Scientist – Responsible for field drilling operations including operating a Geoprobe Direct Push Technology drill rig installing soil boring, coordinating with laboratories on sample analysis and conducting safety meetings. The project geotechnical exploration included approximately 2,660 soil borings using up to eight drill rigs.

CONTAMINATION ASSESSMENT AND REMEDIATION

Hertz Rent-a-Car, Florida

Environmental Scientist – Site soil and groundwater assessments and remediation at various Hertz car rental facilities. Tasks included project coordination, soil and groundwater field analysis, site remediation, source removal, report writing and correspondence with client and project manager. Conducted construction oversight of removal and installation of fuel systems, site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques, d groundwater by removal and elimination of dissolved petroleum hydrocarbons by SVE/DPE, air sparging and bioremediation techniques and treatment of extracted vapors by catalytic oxidation. Site Safety and Health Officer, conducted daily tail-gate safety meetings prior to field activities.

Matthew Corcoran

UST Site Services/Real Estate Development Support Services

Mr. Matthew Corcoran is an environmental field inspector and technician with more than 10 years of experience working on construction, environmental remediation, Phase I and II ESAs, and geotechnical investigation projects throughout Florida, as well as the Caribbean and Latin America. Clients include FDOT, Miami-Dade Department of Environmental Resources Management (DERM), Miami-Dade County Schools, and private industry. Project roles he has held include environmental technician/inspector, site safety officer, disposal coordinator, and lead driller

As a result of Mr. Corcoran's field experience in Florida, he has an in-depth knowledge and understanding of the state's water resources, geology, and general environmental conditions. He has specialized expertise in soil and groundwater sampling, monitor well installation, and remediation system installation. He is experienced in the use of environmental sampling equipment including flame ionization detectors, groundwater quality meters, and survey equipment. In addition, he has directed and coordinated remedial excavations and collection of soil and groundwater samples at industrial sites. Mr. Corcoran is a Florida-licensed water well contractor and is fluent in Spanish.

Key Projects

■ SUGARLOAF LODGE AND MARINA
Sugarloaf Key, Florida
Senior Environmental Technician/ Project Coordinator: Responsible for the installation of monitor wells. Other activities included site characterization, soil and groundwater sampling.

■ GARRISON BIGHT MARINA
Key West, Florida
Senior Environmental Technician/ Project Coordinator: Responsible for the installation of a sparge and vent remediation treatment system. Roles included system operation and maintenance, collection of readings and the installation of automation equipment for remote monitoring. Other activities included site characterization, sampling, monitor well installation, and excavation of source contaminated soil.

■ CONTAMINATION ASSESSMENT AND REMEDIATION
Chartis Insurance, Florida
Senior Environmental Technician/ Project Coordinator: Responsible for the installation of five sparge and vent remediation treatment systems at petroleum facilities in Florida. Roles included system operation and maintenance, collection of readings and the installation of automation equipment for remote monitoring. Other activities included site characterization, sampling, and excavation of source removal soil.

■ CRANDON PARK TENNIS CENTER
Miami-Dade County, Key Biscayne, Florida
Senior Environmental Technician/ Project Coordinator: Responsible for the installation of methane probes throughout the site and the logging of multi gas readings using a GEM 2000™ gas detector. Other activities included the oversight of test pit investigations and the installation of double cased deep monitor wells. The completion of field responsibilities included photo documentation and oversight of the site restoration after the work was completed.

■ CHEVRON CORPORATION ST. THOMAS TEXACO SERVICE STATIONS ENVIRONMENTAL SITE ASSESSMENTS AND REMEDIATION
St. Thomas, Virgin Islands
Senior Environmental Technician/ Project Coordinator: Responsible for the installation of a sparge and vent treatment remediation system at a Chevron service station. Implementated the peroxide injection treatment and source removal excavation for petroleum impacted cleanup at a Chevron service station, as well as the installation of an in-situ activated carbon system used during the de-watering of a petroleum impacted water at a Chevron service station. Coordinated the land

Registrations & Certifications

- Certified SCUBA Diver
- Certified Well / Drilling Contractor
- MIA Badge
- OSHA 8-Hour HAZMAT/ Health and Safety
- CPR and First Aid Training
- Qualified Stormwater Management Inspector

Experience

- AMEC: 2005
- Industry: 2000

farming treatment of impacted soil from source removal excavations at Chevron service stations. Responsible for the coordination of obtaining environmental permits and meeting with local regulators, as well as providing coordination of drilling and assessment activities. Also conducted soil and groundwater sampling procedures at Chevron service stations.

REMEDIATION PILOT TESTING AND CONTAMINATION ASSESSMENT

Florida East Coast Railways, Miami, Florida

Senior Environmental Technician/ Project Coordinator: Responsible for the installation and testing of a high vacuum free product recovery system for a petroleum-impacted rail yard. Activities included the retrofitting of existing remediation process piping, pipe tightness testing and free product gauging of existing wells.

RUTH K. BROAD BAY HARBOR ELEMENTARY/SOURCE REMOVAL PROGRAM

Miami-Dade DERM, Florida

Senior Environmental Technician/ Project Coordinator: Managed and coordinated the excavation of waste-contaminated soils throughout the grounds of the site. Activities included direction of the excavation program, photo documentation, and oversight of site restoration after the work was completed. Other activities included coordination of soil removal and disposal, communication with clients and subcontractors, soil sampling and inspections. The excavation and restoration work was successfully completed during summer break without creating disruption to the school schedule.

ENVIRONMENTAL SERVICES AT A FORMER FPL SITE

Miami-Dade Aviation Department, Miami, Florida

Senior Environmental Technician/ Project Coordinator: Responsible for the installation and sampling of direct push GeoProbe monitoring wells. Groundwater sampling was performed in accordance with the FDEP's policy regarding Standard Operating Procedures for Field Activities (DEP SOP-001/01 revised February 1, 2004) for groundwater sampling. AMEC provided project coordination and a site-specific health and safety plan in accordance with the requirements of OSHA.

ENVIRONMENTAL SERVICES

Beckman Coulter, Healeah

Senior Environmental Technician: Provided environmental services at various sites in Hialeah, Florida. Projects included the spill cleanup for a 1,000-gallon diesel fuel release from an above ground storage tank at Building 740. Excavated and disposed, and restored the site. Performed oversight for the removal of approximately 2,100 tons of impacted soils, 25,000 gallons of petroleum contact water and the installation of free product recovery wells. Other responsibilities included the screening and the delineation of impacted soil and water.

ENVIRONMENTAL SERVICES AT A GENERAL ELECTRIC SITE

Miami, Florida

Senior Environmental Technician/ Project Coordinator: Responsible for the programming, installation and data delivery of an in-situ data logging used for hydraulic monitoring of groundwater flow. Other activities include the oversight of monitor well installation and the collection groundwater sampling performed in accordance with the FDEP's policy regarding Standard Operating Procedures for Field Activities (DEP SOP-001/01 revised February 1, 2004) for groundwater sampling. AMEC provided project coordination and a site-specific health and safety plan in accordance with the requirements of OSHA.

CHICK-FIL-A SITE, BANK OF AMERICA

Fort Lauderdale, Florida,

Senior Environmental Technician: Performed supplemental environmental site assessments at the 20,000 square-feet parking lot for Bank of America Petroleum hydrocarbon discharges were discovered during due diligence activities for a potential real estate transaction. The Phase II investigation identified Benzo(a)pyrene (BaP) in soil, and benzene and xylenes in groundwater at levels exceeding the regulatory limits. Submitted the discharge notification to Broward County and performed additional soil and groundwater assessments.

Stephen J. Hanks, PE, CFM, LEED AP

UST Site Services/Coastal Engineering/Bid and Construction Support Services

Mr. Stephen Hanks serves as a Senior Engineer with AMEC. As Senior Engineer, Mr. Hanks is a valuable resource in a range of engineering services, including surface water modeling, water quality assessment, and wetland and stormwater permitting. Mr. Hanks has a portfolio of water resources engineering services for Water Management Districts, county municipalities, and parks departments. As a Senior Engineer, Mr. Hanks' responsibilities include design and analysis, project accounting, technical writing, and field sampling.

Additionally, Mr. Hanks is a valuable resource in a range of environmental services, including remediation, human health risk assessment, and fate and transport modeling. His petroleum site remediation services emphasizes free product recovery, bio-enhancement applications, and natural attenuation modeling. Mr. Hanks' environmental services experience includes petroleum companies, insurance providers, and retail facilities.

Key Projects

SUGARLOAF MARINA

Chartis Insurance, Sugarloaf Key, Florida

Senior Engineer: Responsible for the evaluation of plume stability utilizing the Monitoring and Remediation Optimization System (MAROS) software. The plume stability analysis utilized 3 years of groundwater monitoring data from over 22 monitoring locations, and was utilized to demonstrate that the site qualified for conditional closure pursuant to Risk Management Option (RMO) Level III.

GEIGER KEY CULVERT DESIGN AND PERMITTING

Florida Department of Environmental Protection, Monroe County, Florida

Senior Engineer: The project consisted of the design and permit for a culvert connection between canal No. 470 and No. 472 in Geiger Key, Florida. The objectives of the project included:

- Complete preliminary, final and corrected final design plans
- Complete hydraulic modeling of the system
- Prepare permit packages for state, federal, and local agencies at the completion of final design plans
- Complete construction technical specifications and engineer's probable construction cost estimate

The permitting phase included obtaining an Environmental Resource Permit from South Florida Water Management District, a Nationwide Permit from the Army Corps of Engineers, a Florida Key National Marine Santuary Permit, and a Monroe County Public Right of Way Use Permit. The project entailed holding various permitting and design meetings to ensure that the Client and Permitting Agencies were informed on the parameters of the project and to ensure the project meet the agreed upon contract schedule.

DESIGN AND PERMIT OF CANAL WATER QUALITY IMPROVEMENTS IN SIX DEMONSTRATION CANALS THROUGHOUT THE FLORIDA KEYS

Monroe County, Florida

Senior Engineer: AMEC is working closely with Monroe County and the Canal Restoration Advisory Subcommittee of the Florida Keys National Marine Sanctuary Water Quality Protection Program to implement a canal restoration demonstration program consisting of implementation of various residential canal water quality improvements. The technologies to be implemented include: weed barriers, organic removal, backfilling, culvert installation, pumping, and combinations of these technologies. AMEC's scope consists of preparation of the design and permit packages for all the restorations, assistance with bidding the construction, and Engineering Support Services during the construction. AMEC initially assisted Monroe County in selecting the top ranked list of demonstration canals to be included in the program. AMEC is obtaining all required permits including South Florida Water Management District Environmental Resource Permit, US Corp of Engineers Dredge and Fill Permit and Florida National Marine Sanctuary Permit. AMEC is working with the Canal Restoration Advisory Subcommittee to develop a streamline permitting process for the restorations. As part

Education

- B.S. Land and Water Engineering, University of Florida, 2005
- M.S. Hydrologic Sciences, University of Florida, 2011

Registrations & Certifications

- Professional Engineer, Florida No. 72253
- Certified Floodplain Manager
- LEED Accredited Professional
- Certified Professional in Erosion & Sediment Control
- Certified SCUBA Diver
- HAZWOPER 40 Hour

Experience

- AMEC: 2006
- Industry: 2006

of the design scope, AMEC is completing all required environmental surveys, bathymetric and topographic surveys, sediment characterization, geotechnical evaluations and hydraulic modelling. AMEC is also coordinating all homeowner approvals for staging areas and equipment installation.

SAVANNAH LA MAR SERVICE STATION
Chevron, Jamaica
Senior Engineer: Responsible for the evaluation of the origin and fate of a co-mingled free product plume. Utilized advanced spatial interpolation capabilities in ArcGIS to determine flow gradients, since the low hydraulic gradients at the site made normal interpolation methods unreliable. The direction of flow interpolations and plume centroid analysis were utilized to demonstrate that the majority of the plume originated from the adjacent property.

HONEYWELL INTERNATIONAL INC.
Clearwater, Florida
Senior Engineer: Responsible for the evaluation of the migration of dissolved chlorinated solvent impacts and degradation rates. The evaluation of the migration of dissolved impacts demonstrated that the pump and treat system and sparge curtain should remain in operation, while the evaluation of the degradation rates of the wells located in the lower portion of the surficial aquifer most likely influenced by the recirculation pumps and air sparging indicated that the technologies were ineffective and an alternative remedial approach should be selected.

S&P FOOD STORE NO. 2
Chartis Insurance, Live Oak, Florida
Senior Engineer: Responsible for evaluating bio-geochemical data to design remedial approaches based on redox state of the aquifer. In-Situ Chemical Oxidation was selected to remediate the perched aquifer, while anaerobic bio-degradation mediated by sulphate injection was selected to remediate the shallow aquifer. Soil Vapor Extraction (SVE) was selected to remediate the vadose zone impacts and to prevent groundwater impacts from leaching.

AIRPORT NORTH WELL
Emerald Coast Utilities Authority, Pensacola, Florida
Senior Engineer: Responsible for developing a risk based exposure level for construction workers to determine the extent of excavation required to prevent exposure of unprotected workers to impacted soil, and for developing an engineering control plan that utilized the upper 6 feet of clean soil as an engineering control to prevent direct exposure and a recovery well to prevent migration from leaching. The implementation of the engineering control plan will be the basis of a Site Rehabilitation Completion with conditions pursuant to Risk Management Option (RMO) Level II.

ST CROIX BULK FUEL TERMINAL
St Thomas, U.S. Virgin Islands
Senior Engineer: Responsible for completing a Risk Based Corrective Action (RBCA) analysis to determine the potential health risk from petroleum hydrocarbon, lead, and PCB concentrations that were observed during a property transfer assessment. The findings of the RBCA analysis were utilized to negotiate the scope of the additional assessment activities with the Department of Planning and Natural Resources (DPNR). Oversaw the implementation of the site assessment activities. The site data was then utilized to demonstrate that the findings of the RBCA analysis were accurate, and that No Further Action (NFA) was required for the site.

TUTU SERVICE STATION REMEDIAL ACTIVITIES
Chevron, U.S. Virgin Islands
Senior Engineer: Responsible for designing the Bio-Enhancing Application injection system used to inject approximately 19,000 gallons of bio-enhancing solution at the site to facilitate bio-remediation. Bio-geochemical site characterization was completed to determine the redox state of the shallow aquifer in order to facilitate the selection of the bio-enhancement amendment.

SEARS NO. 125
Coral Gables, Florida
Senior Engineer: Responsible for the development of a remedial action plan consisting of the injection of a bio-amendment of emulsified oil, Zero Valent Iron (ZVI), Sulfate, and a pH buffer. The amendment was designed to create reducing conditions to promote heterotrophic microbial processes resulting in the precipitation of lead as lead sulfide.

Marcelo A. Pichardo

Real Estate Development Support Services

Mr. Marcelo Pichardo is an Staff Engineer with four years of experience working for the Environment & Infrastructure sector of AMEC. His responsibilities include technical writing, research and review of regulatory reports, site visits, environmental assessments, and field sampling.

Throughout his career, he has performed assessments of contamination at petroleum and non-petroleum sites. These studies included soil and groundwater sampling, soil screening, interpretation of chemical analyses, determination of pollutants and their extent in the soil and groundwater, geological description, client and regulatory correspondence and report compilation. Mr. Pichardo has participated in the sampling and analytical interpretation of groundwater contamination at various sites. He has taken part in the sampling and interpretation of groundwater contamination of volatile and semi-volatile components, metals, as well as chlorinated hydrocarbons as part of contamination assessments under the UST and hazardous waste programs. Mr. Pichardo has been involved in the supervision of soil and groundwater remediation system installations and tank removals in both the U.S. and abroad in the Caribbean.

Key Projects

ENVIRONMENTAL SERVICES

Beckman Coulter, Hialeah, Florida

Environmental Technician: Provided environmental services at various sites in Hialeah, Florida. Projects included the spill cleanup for a 1,000-gallon diesel fuel release from an above ground storage tank at Building 740. Excavated and disposed of approximately 2,100 tons of impacted soils, 25,000 gallons of petroleum contact water, and restored the site. Performed post source removal site assessment for soil and groundwater delineation and prepared Source Removal and Site Assessment Reports. Additional projects included air samples for lead dust and mercury and a Phase II environmental site assessment to evaluate the potential impacts from paint cleaning solvents and assessment of the former underground wastewater pretreatment tank.

LAS OLAS BOULEVARD GROUNDWATER MONITORING

City of Fort Lauderdale, Florida

Environmental Technician: Performs quarterly monitoring events to monitor isopropylbenzene and polynulear aromatic hydrocarbons in the groundwater. Prepared a Remedial Action Plan for removal of contaminated soil was prepared to expedite the remediation process to construct the proposed replacement pump station. Assisted the City with the bid specifications for the bid package for the construction of the pump station and handling of contamination. It included the site safety, environmental issues such as free product and contaminated soil, contaminated water dewatering, surface water controls, environmental permitting, and waste handling, etc.

ENVIRONMENTAL SERVICES AT A FORMER FPL SITE

Miami-Dade Aviation Department, Miami, Florida

Environmental Technician: Installed several groundwater delineation monitoring wells in the airside and landside portion of MIA Site access for drilling was coordinated with MIA airside operations and airport tenants. Prepared and submited several quarterly groundwater monitoring reports for arsenic.Also preparing a draft covenant for Institutional Controls running with the land to Miami-Dade County Department of Regulatory and Economic Resources (RER) to qualify for a No Further Action (NFA) with Conditions Closure for groundwater at the site.

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Beckman Coulter, Miami, Florida

Field Coordinator: Provided field oversight for source removal and backfill activities related to the release of 300 to 500 gallons of diesel fuel at the site from June 16, 2010 through August 9, 2010. Responsible for supervision of subcontractors, performing field sampling and analysis, oversight of well installation and gathering field data during all filed activities.

Education

- B.S. Land and Water Resources Engineering, University of Florida, 2009

Registrations & Certifications

- MIA Badge
- Port of Everglades – TWIC
- Fort Lauderdale/Hollywood International Airport Badge
- OSHA 8-Hour HAZMAT/ Health and Safety
- CPR and First Aid Training

Experience

- AMEC: 2010
- Industry: 2010

GROUNDWATER SAMPLING AND SITE REMEDIATION

Chevron Corporation, George Town, Grand Cayman

Field Coordinator: Environmental services for site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques and treatment of pumped groundwater. Site includes three office buildings and 16 large, bulk storage tanks on approximately 5 acres. Developed and operated multiple free-product recovery systems in bulk storage terminal facility. Remedial action design reused existing, client-owned remedial equipment, reducing installation costs. Product recovery enhanced by active water table depression along with passive free product skimming in independent wells implemented to address free-floating petroleum product plume. Approximately 6,000 gallons of free product have been recovered (as of 2004).

FUEL STORAGE TANK REMOVAL ASSESSMENT

Chevron Environmental Management Company Texaco ECR Sites, Guatemala City

Staff Engineer: Supervised the tank removal assessment, site assessment, contamination assessment, Phase I assessment, report writing and other services. Responsible for supervising subcontractors and other AMEC personnel on site. Responsible for safe work environment, per Client and AMEC specs.

CONTAMINATION ASSESSMENT AND REMEDIATION

Chartis Insurance, Florida

Staff Engineer: Site soil and groundwater assessments and remediation at current and former gas service stations throughout Florida. Tasks included project coordination, soil and groundwater field analysis, site remediation, source removal, report writing and correspondence with client and project manager. Conducted construction oversight in the removal and installation of fuel systems, site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques, treatment of pumped groundwater by removal and elimination of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques and treatment of extracted vapors by catalytic oxidation. Site Safety and Health Officer, conducted daily tail-gate safety meetings prior to field activities.

CONTAMINATION ASSESSMENT AND REMEDIATION

Hertz Rent-a-Car, Florida

Staff Engineer: Site soil and groundwater assessments and remediation at various Hertz car rental facilities. Tasks included project coordination, soil and groundwater field analysis, site remediation, source removal, report writing and correspondence with client and project manager. Conducted construction oversight of removal and installation of fuel systems, site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques, d groundwater by removal and elimination of dissolved petroleum hydrocarbons by SVE/DPE, air sparging and bioremediation techniques and treatment of extracted vapors by catalytic oxidation. Site Safety and Health Officer, conducted daily tail-gate safety meetings prior to field activities.

SITE REMEDIATION

Chevron Corporation, Tutu, St. Thomas, Virgin Islands

Field Coordinator: Site remediation involving removal and destruction of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques and treatment of extracted vapors by catalytic oxidation at a half-acre retail building site. Performed TPDES permitting and monthly well gauging and reporting, quarterly groundwater sampling /reporting; and site closure negotiations with EPA and local regulators. Responsible for conducting groundwater sampling and free product recovery events, gathering field data during all filed activities. Assisting in remedial system setup along with performing and following all Chevron safety procedures and guidelines.

Richard W. Perry, CGC, CCM

Coastal Engineering

Mr. Richard Perry is a construction industry professional with more than 20 years experience as a project manager, construction manager, and civil engineer. His experience includes administration of commercial, industrial, public works/infrastructure and federal government projects, including OCONUS (overseas) base operations support contracts. Mr. Perry has also acted in capacities such as Public Works Director, Assistant Program Manager, and Special Projects Manager, as well as civil and environmental engineering assignments. He has extensive experience supporting U.S. government projects (DOD, USDA, USPS, VA, HUD), both foreign and domestic.

Key Projects

■ DESIGN BUILD RUNWAY REPAIR

United States Air Force, Andrews Air Force Base, Maryland

Project Manager: For the design/build runway repair effort, to include RFP/ proposal development, design development, subcontractor solicitation, production scheduling, contract deliverables, change orders, and RFIs. Tasks included coordination between geographically dispersed offices and subject matter experts to bring the design to fruition. Work effort included repairs and upgrades to runway and taxiway pavements and construction of aircraft arrestor system. Work had to be coordinated with and around official movements of Air Force One, the Presidential Air Group, and other national and international dignitaries. The effort required extensive liaison with Air Force, Secret Service, and other government agencies for coordination of ongoing operations.

■ DEMOLITION/REPAIR SPACE LAUNCH COMPLEXES

United States Air Force, Canaveral AFS, Florida

Project Manager: Responsible for numerous demolition and repair projects at CCAFS, to include demolition of heritage Atlas ($10 million) and Titan ($3.5 million) Space Launch Complexes (included conventional and explosive demolition techniques); construction of new 505-foot antenna tower ($800,000), maintenance of telemetry and weather towers ($350,000). Responsibilities included overall management of budget and operations, liaison with government representatives and regulators, subcontractor coordination and scheduling, safety, environmental compliance, and project close-out activities.

■ SEAWALL/BOARDWALK CONSTRUCTION & REPAIR

United States Air Force, Patrick Air Force Base, Florida

Project Manager: Provided project management support for seawall and boardwalk repair effort, to include constructability reviews and engineering design support for installation of sheet piling, scrubber panels and pile caps, removal of existing damaged rip rap, installation of geo-textile and bedding and installation of new rip rap along 1,700 lineal feet of affected shoreline. Chairperson and liaison for progress meetings and other informational reviews conducted for government benefit.

■ GENERAL CONTRACTOR

Port St Lucie, Florida

President/Owner: Principal owner of P2 General Contractors, Inc., a general contracting firm based in Port St Lucie, Florida, operating in southeast Florida, specializing in small to medium commercial construction, renovations and storm recovery programs. New homes construction ($0.5 million), commercial warehouse ($0.3 million), storm recovery ($0.1 million) and SHIP (subsidized home improvement program) ($0.2 million aggregate).

■ BASE OPERATIONS AND MAINTENANCE CONTRACT SERVICES

United States Air Force, Patrick Air Force Base, Florida

Senior Engineer: Provided engineering services supporting Base Operations and Maintenance (O&M) contract for 45th Space Wing's Eastern Test Range. Duties included contract administration, providing design support, performing construction inspections developing project controls, performing

Education

- B.S. Engineering, Kennedy-Western University, 1995

Registrations & Certifications

- Florida Certified General Contractor No. CGC1504246
- Certified Construction Manager, Construction Management Association of America
- Certified Commercial Building Inspector, International Code Council No. 5305463-82
- Certified ISO 9000 Quality Systems Auditor, RAB
- OSHA-Certified Crane Safety Inspector
- National Management Association Skills Develop Training
- LEEDS Core Principals
- USACE Construction Quality Management for Contractors

Experience

- AMEC: 2007
- Industry: 1985

engineering studies and other support as requested by U.S. Air Force (USAF) local command and 45th CES. The performance of these duties included projects and assignments at Patrick Air Force Base Florida, Antigua Air Station (West Indies) and Ascension Island (UK), requiring extensive interface with Government and military client representatives at all levels.

ENVIRONMENTAL REMEDIATION SERVICES

U.S. Department of Housing and Urban Development, Various Locations

Senior Engineer: Supporting environmental remediation projects for HUD, including abatement of lead-based paints, asbestos-containing building components and bio-hazards in public housing located in Tampa, Florida. This assignment also included projects such as removal of underground storage tanks at bases in Georgia, groundwater decontamination at sites in Florida, and lead abatement of military target ranges in North Carolina. Work also included a National Park Service beach restoration project at Canaveral National Seashore, Cape Canaveral, Florida, and a U.S. Department of Agriculture educational facility in Tallahassee, Florida.

Professional Affiliations

- State of Florida, Construction Industry Licensing Board
- International Code Council
- Construction Management Association of America
- Society of American Military Engineers
- Professional Association of Dive Instructors

Eric T. Reitter, PE

Costal Engineering

Mr. Eric Reitter is a civil and environmental engineer with more than 19 years experience in consulting engineering. His project experience includes the planning, design and construction administration of infrastructure projects including marine, slope stabilization, roadway, drainage, solid waste management, wastewater, water distribution, and federal, state, and municipal projects. Mr. Reitter has led the design and construction of piers and waterfront facilities to include geotechnical, structural, electrical and civil engineering as well as preparation of marine traffic studies, dredging design and environmental permitting. Mr. Reitter's experience includes design of road reconstruction projects including horizontal and vertical realignments, box culverts/ bridges, wetlands crossings, urban streetscape improvements, intersection realignments, slope stabilizations, retaining walls, utilities, drainage systems, site plans for private and municipal facilities, and private subdivisions.

Prior to AMEC, Mr. Reitter served as the chief civil engineer and was a principal for an A/E consulting firm (CMA Engineers; Portsmouth, NH) where he managed and led a team of design engineers and sub-consultants. He was responsible for technical quality of the engineering and construction documents. Projects included design, permitting and construction of landfill closures; lined landfills for municipal solid waste; municipal water and wastewater pumping stations; wastewater treatment plant improvements; urban streetscape improvements; rural roads and intersections; utility replacements including water, sewer, drain, power and phone; and storm water improvements including box culverts and bridges.

Key Projects

SAN JUAN WATERFRONT

Colliers TMT of Puerto Rico/Puerto Rico Ports Authority, San Juan, Puerto Rico

Project Manager/Lead Civil Engineer: Project included site investigation, geotechnical engineering, preliminary design, and permitting of 11,000 feet of sheetpile along the San Antonio Canal. The project consisted of redeveloping 110 acres of industrial port land into commercial, residential and public use. The 11,000 feet of existing dilapidated piers were inspected and evaluated for potential reuse. After preparing an inspection report with recommendations for improvements, AMEC performed preliminary design and cost estimating. Led a team of geotechnical, civil, and structural engineers, as well as cost estimators through the design of eight different sections of the wharf. AMEC developed three concepts and ultimately a preliminary design for each of the eight sections based on varying water depth and type of improvements required for each section. Reconstruction of the piers required dredging of approximately 225,000 cubic yards of materials from the Canal. Led a team of marine scientists through permitting and sampling of the materials. After evaluating the quality of the materials, the team determined that much of the material could be reused in a nearby lagoon as part of a benthic habitat restoration project, ultimately reducing project costs by avoiding upland landfill disposal.

PIER 6 IMPROVEMENTS

Colliers TMT of Puerto Rico/Puerto Rico Ports Authority/Puerto Rico Infrastructure Finance Authority, San Juan, Puerto Rico

Project Managr/Lead Civil Engineer: Responsible for the design and preparation of construction documents for the reconstruction of 1,000-foot-long Pier 6 in San Juan. Coordinated structural, electrical, and geotechnical engineering as well as landscape architecture and environmental permitting. The project included:

- 30-foot high steel sheetpile bulkhead with soil anchors and pre-cast concrete pile supported deck over the water. The cost effective design included leaving the existing bulkhead in-place, installing the new bulkhead on the seaward side and filling the space with grout.
- Water taxi station, keyed revetment to prevent scouring from cruise ship bow thrusters, and cathodic protection to extend the life of the steel bulkhead
- Geotechnical engineering of stone columns for ground improvements to mitigate potentially liquefiable soils during a seismic event.
- Design of electrical, communication

Education

- M.S. Civil/Environmental Engineering, University of New Hampshire, 1996
- B.S. Civil Engineering, University of New Hampshire, 1993

Professional Affiliations

- Engineers Without Borders
- American Society of Civil Engineers
- Society of American Military Engineers

and security facilities to ensure that Ports security was not disrupted during construction.
- Design of 4 lane roadway, parking, bicycle path and 50-ft wide pedestrian park through the project area.
- Design of demolition and construction phasing was coordinated to ensure no disruption of traffic flow on a main thoroughfare of the Isleta during construction.
- Dredging and disposal of approximately 7,000 cy of materials;
- Design and installation of a new 1,000' long 20" water main.

Construction of the project began in November 2008. Provided technical oversight through 2010 as part of AMEC's construction services contract with the Puerto Rico Infrastructure Finance Authority.

HOTEL PIER IMPROVEMENTS
Naval Base Pearl Harbor, Hawaii

Project Sponsor: Project included the construction of improvements to Hotel Pier, the primary refueling pier for the Navy in the Pacific. Improvements included patching spalled concrete, installing pile jackets on cracked piles, installing fendering system, replacement of cleats, and resurfacing the deck. The team received an "Above Average" rating for its work on the project. Responsible for ensuring quality control, satisfactory performance of the work and client satisfaction.

SAN DIEGO BAY MAINTENANCE DREDGING PLANNING
San Diego, California

Senior Technical Lead: Through a contract with NAVFAC Southwest, AMEC prepared a maintenance dredging plan for the Navy's bases in San Diego Bay; Naval Base San Diego, Naval Air Station North Island, and Naval Amphibious Base Point Loma. The team evaluated sediment deposition rates at each base, developed quantity estimates, order of magnitude cost estimates and working with the Navy's budgets, prepared a plan to assist the Navy with long-term budgeting, planning and permitting. After the plan was developed, the Team prepared permitting documents to allow sediment characterization to commence. Following receipt and evaluation of data, AMEC will prepare a permitting application for submittal to USACE and US EPA for approval of dredging. Responsible for the volume and cost estimating, and supported permitting and planning efforts.

DESIGN/BUILD ARCHITECTURE AND ENGINEERING SERVICES, MULTIPLE DESIGN/BUILD CONTRACTS
NAVFAC Southwest and U.S. Army Corps of Engineers

Senior Technical Lead: Responsible for supporting the team with engineering services during the pursuit and successful completion of contract task orders (CTOs). Contracts include:
- IDIQ Wet Utilities Multiple Award Construction Contract (MACC) for NAVFAC Southwest with prime partner Hal Hays Construction, Inc. ($300M, N62473-10-D-5416)
- Repair Aqueous Film Forming Foam (AFFF) Storage Systems at MCAS Camp Pendleton (2012) Design of repairs to the damaged underground AFFF collection system.
- IDIQ 8(a) Construction MATOC for USACE Honolulu ($100M, W9128A-09-D-0008)
- Wheeler Army Airfield Ammunition Roads Erosion Control (2010-2012) Civil and geotechnical engineering for design and reconstruction of 6 failed slopes at Wheeler AAF on Oahu, Hawaii
- MATOC for areas around and including Tracey/Sharpe, Camp Parks, and Military Ocean Terminal (MOTCO), CA for USACE Sacramento (W91238-10-R-0032)

REMEDIAL DESIGN/REMEDIAL ACTION IR SITE 1
Alameda, California

Senior Technical Lead: NAVFAC SW awarded AMEC a $28.8-million remedial design and action task order for IR Site 1 at Alameda Point. The site, on the former Naval Air Station Alameda, was operated between 1943 and 1956 as the station's principal site for waste disposal, including old aircraft engines, cables, scrap metal, waste oil, solvents, and construction debris. Groundwater at the site is contaminated by volatile organic compounds (VOCs). AMEC's proposed plan calls for the design and construction of a 4-foot-thick soil cap with seismic-stability protections to cover the landfill debris; selected excavation of beach and burn areas; and installation, operation and monitoring of a groundwater treatment system. Among other deliverables, AMEC also will develop a precipitation and drainage plan, a wetlands mitigation plan, and a stormwater pollution prevention plan. The work is intended to achieve site closure and reuse as a recreational golf course, beach, and fishing area.

Peter J. Medico, PE

Coastal Engineering/Bid and Construction Support Services Lead

Mr. Peter Medico has more than 30 years of broad range experience resulting from project design, including site, roadway, stormwater management, drainage, and permitting, as well as construction management experience, including contract negotiations, project management, field and technical review and assistance, and claims analysis and resolution. His involvement encompasses public and private sector projects from major interstate and urban roadway design and construction to industrial, commercial, and residential projects with an emphasis on service and quality control. His recent assignments as the senior project engineer on various FDOT Districts 1, 3, 4, 6, and 7 projects have provided him with hands-on quality CEI experience. Mr. Medico personally prepared and submitted five FDOT final estimates and supervised the preparation of 18 final estimates.

Key Projects

NORTH ROOSEVELT RECONSTRUCTION

Florida Department of Transportation
District 6, Key West, Florida

Senior Project Engineer: The project involves total roadway reconstruction to seawall bulkheads, outfall structures to environmentally sensitive waters of the State, water and sewer utilities, drainage, subgrade, asphalt base and pavement, signalization, signing and pavement markings. Responsibilities include interpretation and of plans and specifications and quality assurance of all construction activities though the management of inspection and materials sampling and testing staff; review of construction schedule, maintenance of traffic and environmental permit compliance reviews, negotiation and processing of supplemental agreements, and preparation and submittal of final estimate.

BELLEAIR BEACH CAUSEWAY BRIDGE REPLACEMENT

Pinellas County Public Works, Pinellas County, Florida

Project Manager: This project consisted of replacing a bascule bridge with a high level bridge with drilled shafts foundations, poured in place substructure and post tensioned flat slab and Florida bulb-t superstructure. The work included an incremental launching system for the approach post tension slabs that was approved as a value engineering change. The work included seawall construction, boat-ramp construction, parking facilities, storm-water retention ponds, as well as sea grass restoration and planting of shoreline vegetation.

ANNA MARIA BRIDGE REHABILITATION AT CRESCENT DRIVE AND NORTH BAY BOULEVARD

Florida Department of Transportation
District 1, Manatee County, Florida

Project Engineer: Duties included the management of all offices and employees working in Southwest Florida. Work included administration of all ongoing CEI services. The project included concrete pile repair and concrete bridge deck repair.

TREASURE ISLAND CAUSEWAY BASCULE BRIDGE REPLACEMENT

City of Treasure Island, Florida

Project Engineer: This project consisted of replacing a bascule bridge and reconstruction of the 1-mile roadway approaches. The work included restoration of sea grass and bulkhead construction.

I-95 DESIGN BUILD

Florida Department of Transportation
District 4, Broward County, Florida

Senior Project Engineer: resurfacing of I-95 from the Broward County Line to Congress Avenue, including sound wall construction, bridge rail remediation, and ramp construction. The work also included structural repairs to the bridge over the Hillsborough Canal.

ELEVEN-MILE CREEK BRIDGE REPLACEMENT

Florida Department of Transportation
District 3, Escambia County, Florida

Senior Project Engineer: Project included the replacement of a 94-meter long, low-

Education

- B.S. Civil Engineering, Civil/Sanitary, University of South Florida, 1988

Registrations & Certifications

- Professional Engineer, Florida No. 42654
- TIN: M320670590890
- CTQP Final Estimates Level 1 and 2
- OSHA 1926.650 Trenching and Excavation Competent Person
- FDEP Stormwater, Erosion, and Sediment Control Inspector
- Advanced Maintenance of Traffic Qualification

Experience

- AMEC: 2013
- Industry: 1982

level bridge, including the construction of a temporary detour (ACROW) bridge, 600-millimeter concrete piling, pile caps, and prestressed beams. The work included restoration and reconstruction from severe bridge damage due to Hurricane George in 1998.

URBAN CONSTRUCTION OFFICE
Florida Department of Transportation
District 2, Jacksonville, Florida

Construction Project Engineer: Safety improvements were performed from Lane Avenue to McDuff Road in Jacksonville, Florida. The construction included the widening and rehabilitation of six AASHTO beam bridges, the widening of a four-lane concrete pavement interstate roadway to six lanes, intersection improvements, highway lighting, and drainage.

LOCAL AGENCY PROGRAM
Florida Department of Transportation
District 6, Districtwide, South Florida

LAP Project Manager: Responsible for staff support in the management of more than 250 LAP projects as part of the American Recovery and Reinvestment Act (ARRA) Supplemental Services and LAP Support Additional Services. Specific work involved administration and tracking several LAP projects though all phases of development, including planning, design, construction, and CEI. Responsibilities included assisting the District LAP Administrator with LAP agency certification; LAP agreement processing; general project management; LAP invoicing and federal funding reimbursement; and coordinating audits from the state LAP administrator and Federal Highway Administration. Duties also included the drafting of FDOT District 6 LAP process maps and LAP Manual.

VARIOUS CONSTRUCTION PROJECTS
Medico Engineering Corporation, South Florida

Project Engineer: Performed engineering design of several residential subdivisions, commercial and residential site work, water and sewer utilities, drainage systems, residential and commercial structures, retaining walls, custom doors, balconies, railings and staircases. The work also included the design and construction management of secondary containment systems for underground gasoline storage tanks. Also Mr. Medico's work included the design, permitting and construction management of more than 100 on-site sewage disposal systems to include Septic Systems, Dosing Systems, drip irrigation systems and alternative effluent drain field systems.

BROOKHILL SUBDIVISION UTILITY AND ROADWAY IMPROVEMENTS
City of Fort Myers, Florida

Senior Project Engineer: This was a full CEI project for the City of Fort Myers Public Works Department. The project included underground utilities replacement, re-surfacing of existing roadways; installation of new sidewalks, curb and gutter, and sewer lift station; and lighting and stormwater management throughout the project.

HABEN BOULEVARD RESURFACING FROM U.S. 301 TO U.S. 41
Florida Department of Transportation
District 1, Manatee County, Florida

Contract Support Specialist: Project included for a milling and resurfacing. Duties included the management of all offices and employees working in Southwest Florida. Work included administration of all ongoing CEI services.

MILLING AND RESURFACING HYBRID PROJECTS
Florida Department of Transportation
District 1, Collier County, Florida

CEI Project Manager: The project included:

- I-75 (Alligator Alley), from Turnback Slough to Faka Union Canal, 6 miles of milling and resurfacing
- U.S. 41 from SR 951 to Auto Village Way, 3 miles of resurfacing and guardrail safety improvements
- SR 29 inverted profile pavement marking in Collier County

The projects were managed out of FDOT District 1's Fort Myers Operation Center.

Luis A. Ponce, PE, CGC, BN

Coastal Engineering

Mr. Luis Ponce is a Construction Manager and Senior Engineer with over 25 years of experience in the construction and geotechnical engineering fields. Mr. Ponce has managed many complex engineering and construction projects throughout Florida, Georgia, Puerto Rico, and South America. Mr. Ponce's expertise includes construction planning, scheduling, technical oversight, value engineering, QA/QC, field and laboratory data evaluation, as well as preparation of engineering recommendations for foundation design and construction for different types of projects, including residential and commercial developments, roadways, public schools, office buildings, communication towers and parking garages.

Throughout his career, Mr. Ponce has provided technical oversight and directed engineers, engineering technicians, building inspectors, subcontractors, survey teams and drilling crews. He has valuable field and site management experience with earthwork construction, deep and shallow foundations, earthen embankments, roadways and building construction projects. Mr. Ponce is very knowledgeable of geotechnical issues related to site development and earthwork construction, and he also has ample experience on vertical construction means and methods, as well as code compliance and project management controls.

In addition to being a Registered Professional Engineer in Florida and New Hampshire, Mr. Ponce holds an active Commercial and Residential Building Inspector License (BN), and is a Certified General Contractor (CGC) in the State of Florida. He also has a Certification as Structural Plans Examiner (ICC), and is a Certified Erosion Control professional in the State of Georgia.

Key Projects

■ CONSTRUCTION REVIEW AND MANAGEMENT SERVICES FOR SHORELINE DUNE RESTORATION PROJECT

Brevard County, Florida

Construction Manager/Senior Engineer: AMEC provided professional coastal engineering and related technical services for construction review and site management of dune repairs, including placement of up to approximately 235,000 cubic yards of sand renourishment along portions of the County's Mid Reach and South Beaches shoreline areas, pursuant to prior erosion impacts of Hurricane Sandy.

■ PALMETTO STATION TRACTION POWER SUBSTATION

Miami Dade Transportation/PARSONS, Miami, Florida

Assistant Program Manager/Senior Engineer: AMEC was requested to provide engineering support during the design and construction phases of the proposed MDT - Palmetto Traction Power Substation, in Miami, Florida. Managed civil and mechanical engineering support, QA/QC and compliance services for the proposed power substation. The site is located at NW 79th Place and NW 77th Street, in Miami, Florida. The 1.5 years project is currently under execution.

■ REHABILITATION OF TAXIWAY "C" WEST

Broward County Aviation Department, Broward County, Florida,

Construction Manager/Senior Engineer: AMEC's scope includes providing quality assurance and verification during the renovation of the proposed Taxiway "C" at the FLL Airport. Responsible for the coordination, project management, and engineering support for all QA/QC processes during the project construction. This 14-month project is currently under execution.

■ LAKESIDE RANCH STORMWATER TREATMENT AREA PHASE I

South Florida Water Management District, Florida

Construction Manager/Senior Engineer: Responsible for project/construction management and technical oversight of the QA/QC program, including structural and civil inspection services, controls during project execution, and value engineering

Education

- B.S. Civil Engineering/ Transportation, University Laica, 1990

Registrations & Certifications

- Professional Engineer, Florida No. 71723, New Hampshire No. 12869
- Certified General Contractor, Florida No.1509404
- Standard Building Inspector, Florida No. 3345
- Certified Professional, Erosion & Sediment Control, Georgia No. 6614
- Certified Building Inspector, Commercial & Residential Buildings, No. 5189975-B5
- Certified Plans Examiner/ Plans Reviewer, No. 5253465-B3
- Certified Radiation Safety Officer, Florida
- Radiation Safety & Use of Nuclear Gauges Operator Hazardous Materials, Florida

Experience

- AMEC: 2008
- Industry: 1989

as required by the client. Provided construction management, QA/QC, and inspection services during the construction of a new 2,700-acre STA site, located on the northeast shore of Lake Okeechobee and just east of US Hwy 441/98.

S-65D LAND NAVIGATIONAL LOCK REFURBISHING

South Florida Water Management District, Florida

Construction Manager/Senior Engineer: Responsible for project management and directed construction inspection and administration services for the lock refurbishing project. The project included structural, electrical, and mechanical inspections, as well as CMT for earthwork, ready-mix concrete placement, and shotcrete wall rehabilitation controls. Project included construction management, QA/QC, and inspection services during the construction of the S-65D Land Navigational Lock refurbishment project, located in Okeechobee County along Canal C-38 south of the outlet of Lake Kissimmee.

S-65D TELEMETRY TOWER REPLACEMENT PROJECT,

South Florida Water Management District, Florida

Construction Manager/Senior Engineer: Managed the quality control oversight, including construction inspections and CMT services, during all phases of the construction project. Project included construction management, QA/QC, and inspection services during construction of the S-65D Telemetry Tower replacement project, located in Okeechobee County, along C-38 Canal, south of the outlet of Lake Kissimmee.

SPRING HILL AND HOMEWOOD SUITES HOTELS

OTO Development, LLC, Florida

Construction Manager/Senior Engineer: Managed, coordinated, and provided oversight for the structural and threshold inspections services. Provided CMT and threshold/special inspection services for development of two five-story hotels (Spring Hill Suites and Homewood Suites) at opposite corners of an intersection near I-95 in the West Palm Beach area. Each hotel covers approximately 96,000 square feet.

GEOTECHNICAL, CONSTRUCTION MATERIALS TESTING, AND INSPECTION SERVICES

New Arabia Mountain High School, Georgia

Senior Project Manager: Managed construction engineering services, including geotechnical exploration, foundation design, drilling, blasting, and construction materials testing, as well as civil and structural inspections during project construction. Provided construction engineering services during design and construction of a three-story 450,000-square-foot high school building and its associated parking areas and roadways.

GEOTECHNICAL, CONSTRUCTION MATERIALS TESTING, AND INSPECTION SERVICES

Putnam County High School, Georgia

Senior Project Manager: Managed CMT and inspections for the project site development and construction. Provided construction engineering services during design and construction of a three-story 380,000-square-foot building, including deep foundations and rock blasting monitoring.

CONSOLIDATED RENTAL CAR CENTER – NEW PARKING GARAGE

Hollywood International Airport, Florida

Project Manager: Managed the CMT and structural engineering inspections during project construction. Provided construction engineering services during construction of the CRC facility and the 4,500 spaces new parking garage building, as well as for an airport terminal and concourses B and C (Phase II).

DAULE – PERIPA DAM, ZONE II, IRRIGATION PROJECT

Province of Guayas, Ecuador

Project Manager: Managed the installation and testing of approximately 150,000 feet of pipeline, ranging from 3 inches to 60 inches in diameter. Other responsibilities included construction supervision for over 150 drainage structures along the irrigation zone access roads.

J. Chris Mickler, PE
Coastal Engineering

As a specialist in the areas of Civil Compliance Audits, Environmental Assessment/Permitting, Environmental Contamination Assessments, and Mechanical Design, Mr. Mickler's duties include project management of environmental, hydrologic, and geotechnical investigations. Prior to joining AMEC, Mr. Mickler worked as a Civil and Environmental Engineer in the field of utility design and water resources management.

Mr. Mickler has experience in wastewater system design, preparing geotechnical reports, developing groundwater models (using MODFLOW and SEEP) to estimate wetlands impacts, conducting laboratory soil testing, and preparing natural resources surveys and SPCC plans.

Key Projects

- **HALPATA TASTANAKI PRESERVE HYDRAULIC SERVICES AND WETLAND RESTORATION**
  Southwest Florida Water Management District, Florida
  Senior Engineer: Responsible for collecting and reviewing data, performing hydrologic modeling, and preparing project reports. Floodplain restoration including data collection (historic and current) and hydrologic/hydraulic modeling for restoration alternatives at 500-1,000-acre site located along Withlacoochee River. AMEC is developing an hydraulic and wetland restoration plan for SWFWMD to restore natural hydrologic functions of storage and conveyance and the ecologic value of wildlife habitat diversity in forested floodplain wetland systems along the Withlacoochee River (District lands) that have been lost or degraded due to disturbance by historic land use. Restoration of the floodplain will require a combination of culvert upgrades and more innovative flood water passage design, and berm lowering throughout the site. The restoration is intended to improve aquifer recharge, habitat restoration, and restore flood storage. AMEC originally conducted a feasibility study assessing the existing site's vegetative and hydraulic condition and has prepared a model to determine historic and existing wetland hydration patterns. The Engineering and Environmental Analysis presented alternate plans and associated costs to restore the wetlands to more historic conditions without adversely impacting adjacent property owners. Final plans have been developed for the wetland restoration project. AMEC will prepare design and construction plans, bid documents, permit applications and provide construction oversight services for this project.

- **SERENOVA PRESERVE WETLANDS RESTORATION**
  Southwest Florida Water Management District, New Port Richey (nearest city), Florida
  Senior Engineer: Responsible for conducting hydrologic monitoring, collecting and reviewing data, and preparing project reports. Floodplain restoration including hydrologic modeling and data management for 3,000 acres in rural west Florida.

- **DEER ISLAND ECOSYSTEM RESTORATION AND SHORE PROTECTION**
  US Army Corps of Engineers - Mobile District, Various Locations, Mississippi
  Project Engineer: Responsibilities included assisting in preliminary engineering design and analysis for dredged material as well as evaluation and cost estimates for erosion protection. The creation of a coastal marsh using maintenance-dredged material from the Biloxi Bay shipping channel was performed as a pilot project for restoring and augmenting a barrier island (Deer Island) on the Gulf Coast of the State of Mississippi. This beneficial use of the fine-grained dredged material not only provided an ecological habitat for coastal wildlife but also augmented the size of a coastal barrier island. This augmented barrier island in its new size and configuration helped buffer and dissipate the powerful energy of Hurricane Katrina and other storm surges experienced by Coastal Mississippi in 2005. Geotechnical and coastal engineering challenges included site selection, location, size, and shape; bearing, stability, and performance of containment

Education
- Master of Engineering, Environmental Engineering, University of Florida, 1995
- B.S. Mechanical Engineering, University of Florida, 1992

Registrations & Certifications
- Professional Engineer, Florida No. 55542
- HAZWOPER 40 Hour
- HAZWOPER 8 Hour Refresher

Experience
- AMEC: 1998
- Industry: 1993

Software Proficiency
- Microsoft Office Word, Excel, Power Point and Outlook
- AutoCAD
- Visual PLUMES
- DFlow
- MODFLOW
- MODRET
- PONDS

dikes for sediment in-fill; in-fill sediment characterization; and in-fill sediment performance. This project demonstrated that geotechnical and coastal engineering along with application of appropriate environmental sciences can provide engineered systems to produce coastal protection and other benefits through creation and/or augmentation of offshore barrier islands.

SOIL AND GROUNDWATER ASSESSMENT, SOURCE REMOVAL AND CHEMICAL OXIDATION REMEDIATION

Confidential Client, Orlando, Florida

Senior Engineer/Engineer of Record: Preparing a Remedial Action Plan to address a pesticide release at a former Sears facility. Pesticides impacted soil and groundwater. The Remedial Action Plan used combined technology of source removal for contaminated soils and chemical oxidation to address groundwater. Performed oversight activities during remedial action implementation. Performed Phase II assessments, source removal and chemical oxidation remediation over a two year period and followed by remediation for one month followed by post remediation monitoring on a one acre parcel with one building on site.

ENVIRONMENTAL ASSESSMENT

Dogwood Park, GSE Engineering and Consulting, Inc., Jacksonville, Florida

Project Manager: Responsible for project management of Dogwood Park for sampling existing monitoring wells at property using FDEP standard operating procedures and provide field notes to client. The Facilitly is one contiguous property approximately 10 acres in size.

HEWATT FUEL STATION SITES ASSESSMENTS AND REMEDIATION SERVICES

Florida Department of Environmental Protection, Florida Panhandle, Florida

Project Engineer. Responsible for review of deliverables and professional seal for documents ranging from assessment to system design evaluation to system O&M generated for multiple sites in Florida. Site assessments and remedial action planning for service station / convenience store sites in the Florida panhandle, all managed by same owner. Sites demonstrated evidence of contamination. Assessment services involved Geoprobe® investigations, well installations and groundwater sampling. Recommended remediation strategies included air sparging, biosparging, soil vapor extraction, and groundwater treatment via air/water separators.

HEWATT TALLAHASSEE SERVICE STATION SITE ASSESSMENT

Florida Department of Environmental Protection, Tallahassee, Florida

Project Engineer: Responsible for review and professional seal of assessment and engineering deliverables to meet FDEP requirements. Supplemental site assessment of service station/convenience store within center of Tallahassee; site was contaminated from petroleum leaks or spills. Assessment services involved Geoprobe® investigations, well installations and groundwater sampling. Detailed reports of findings developed and submitted.

PHASE I, UNDERGROUND STORAGE TANK (UST) LCAR SERVICES

Bishop Kenny High School, Jacksonville, Florida

Project Manager: Responsible for developing project scope, scheduling and providing oversight of project activities, and maintaining client contact. Phase I environmental site assessment at a private high school campus, the former location of four USTs containing heating oil where Florida Department of Environmental Protection (FDEP) had record of a petroleum discharge at site in November 1993, but no indication which tank emitted discharge. AMEC performed soil and groundwater investigations to determine any residual impacts from the spill, and submitted report of findings to FDEP.

PHASE I ASSESSMENT SERVICES

Brooklyn Blocks Update, Pope & Land Enterprises Inc., Jacksonville, Florida

Project Manager: Overseeing and coordinating Phase I Assessment Services. AMEC provided Phase I Assessment Services of 12-acres of cleared land that was under consideration for a real estate transaction. The assessment, which was used to identify environmental conditions associated with the site, included a review of the site history and environmental lists, a site and area visit, and a written report of the findings.

Philip A. Frank, PhD
Coastal Engineering

Dr. Philip Frank has more than 25 years of experience in environmental conservation with agencies at both the state and federal level. He spent more than 13 years with the FWS and FWC in the Florida Keys.

Dr. Frank was a Project Manager with the FWS and FWC for numerous T&E species conservation and recovery projects in the Florida Keys. He has a unique and respected ability to relocate corals off of bridges (i.e. Bahia Honda Bridge) and has established an excellent relationship with the Florida Keys National Marine Sanctuary. He has overseen the design and construction of numerous mitigation projects in the Keys for FDOT. His experience with listed species in the Florida Keys includes the Key Largo wood rat, Key Largo cotton mouse, Keys deer, and Lower Keys marsh rabbit and silver rice rat.

Key Projects

- **TERRAMAR ENVIRONMENTAL SERVICES, INC.**
  Serves as Vice President for Terramar Environmental Services, inc., a private consulting firm specializing in wildlife and endangered species conflict resolution, terrestrial and marine habitat restoration, public/private conservation policy, and land use planning.

- **CONSULTING, ENGINEERING AND SCIENCE, INC.**
  Served as Senior Environmental Manager for Consulting, Engineering and Science, Inc. (CES). Responsible for project management for CES's Florida Keys environmental consulting operations throughout the Keys. Conducted environmental assessments, endangered species biological assessments, design and implement habitat mitigation and restoration projects, and coordinate projects with appropriate regulatory agencies.

- **U.S. FISH AND WILDLIFE SERVICE,**
  Served as Project Leader for the Florida Keys National Wildlife Refuges. Responsible for the administration of four National Wildlife Refuges in the Florida Keys that encompass a total of 400,000 acres of lands and waters. Supervised a staff of 18 managerial, technical, law enforcement, maintenance, and administrative personnel with an annual budget of approximately $1.3 million dollars. Provided leadership for the Florida Keys National Wildlife Refuges on a wide variety of issues including wildlife management, endangered species recovery, habitat management (including prescribed fire, and land acquisition).

- **U.S. FISH AND WILDLIFE SERVICE,**
  Responsible for the administration of the Endangered Species Act in the Florida Keys. Responsible for coordinating recovery actions for T&E species. Design pertinent research and management projects that address endangered species concerns, secure project funding, and coordinate with government agencies, private organizations, and academic institutions to implement recovery actions. Responsible for biological review of development projects that impact T&E species in the Florida Keys including the coordination of the Habitat Conservation Plan for Big Pine and No Name Keys.

- **U.S. FISH AND WILDLIFE SERVICE, NATIONAL KEY DEER REFUGE**
  Responsible for all aspects of terrestrial wildlife conservation on the National Key Deer Refuge with an emphasis on threatened and endangered species including the endangered Key deer, Lower Keys marsh rabbit, silver rice rat, and Key Largo woodrat. Routinely conducted population surveys, habitat

Education
- Ph.D. University of Florida, Wildlife Ecology and Conservation
- M.S. University of South Florida, Zoology
- B.S. Indiana University, Biology

Experience
- Terramar: 2007
- Industry:1987

assessments, and habitat restoration actions. Collected and analyzed data, wrote summaries and reports, and communicated results to the scientific, regulatory, and general public.

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Responsible for all aspects of wildlife conservation efforts, listed species permitting, and development review for FWC in the Florida Keys. Responsibilities include review and comment of development proposals to local, state and federal regulatory on the effects of development on wildlife habitat and populations. Provided technical assistance to a wide range of organizations regarding wildlife ecology and conservation in the Florida Keys.

R. Michael Jones, PLS, CFedS

Survey and Mapping Services Lead

Mr. R. Michael Jones has 36 years of professional experience in surveying and mapping in Florida, including the past 25 years with AMEC. He is extremely proficient in all aspects of survey management, including project planning, estimating, implementation, resource allocation, and quality assurance and quality control. He has specific expertise in the areas of geodetic control surveys, engineering design surveys, subsurface utility surveys (SUE), hydrographic surveys, right-of-way mapping, and boundary determinations. He has managed surveying and mapping projects for such clients as Miami-Dade County, Broward County, South Florida Water Management District (SFWMD), Southwest Florida Water Mangemetn District (SWFWMD), Florida Department of Transportation (FDOT), Florida Department of Environmental Projection (FDEP), and U.S. Army Corps of Engineers (USACE). He is a registered professional land surveyor in six states and is a Bureau of Land Management Certified Federal Lands Surveyor.

Key Projects

MONROE COUNTY BATHYMETRIC SURVEYS

Monroe County/Florida Department of Environmental Protection, Florida

Contract Manager: Served as manager in the bathymetric surveys of 167 miles of private canals located in the Florida Keys. Utilized dual frequency automated hydrographic survey system in conjunction with GPS real-time positioning system to map the bottoms of the canals and approximate the thickness of sediments to support Monroe County water quality initiatives.

CONTINUING SURVEYING AND MAPPING SERVICES CONTRACT

Miami-Dade County, Florida

Contract Manager: Has served in this role from 2002 to present under this particular contract with the County. Projects have been primarily performed for various departments within the County including DERM, Ports, Housing, Administration, Aviation, and Public Works and have included boundary, topographic, hydrographic, utility location, and route surveys.

SUBSURFACE UTILITY LOCATION SURVEY SERVICES

Broward County, Florida

Contract Manager: Has served in this role from 2008 to 2011 under successive contracts to support the County's roadway design program. Eight successfully completed assignments included utility coordination, designation and soft-dig excavation of subsurface utilities, surveying and mapping of designated and located utilities, and preparation of certified test hole data sheets.

CONTINUING SURVEYING AND MAPPING SERVICES CONTRACT

South Florida Water Management District, Florida

Contract Manager: Has served in this role to the District for three contracts, including the current contract, in providing surveying and mapping support to projects and missions of various departments within the District. Assignments have included geodetic control, boundary, cross section, topographic, bathymetric, and right-of-way surveys. Work has been performed in Miami-Dade, Broward, West Palm Beach, Martin, Collier, Okeechobee, Highlands, and Osceola Counties.

CONTINUING SUBSURFACE UTILITY LOCATION AND SURVEY SERVICES CONTRACT

Florida Department of Transportation, District 6, Miami, Florida

Contract Manager: Served in this role to District 6 for 15 years in supporting the Department's in-house engineering design staff operations. Sixty-seven successfully completed assignments in Miami-Dade and Monroe Counties included utility coordination, designation, and soft-dig excavation of subsurface utilities, surveying and mapping of designated and located utilities, and preparation of certified test hole data sheets.

Education

- A.S. Civil Engineering, Central Florida Community College, 1976
- A.S. Land Surveying, Central Florida Community College, 1976

Registrations & Certifications

- Professional Land Surveyor, Florida No. LS4201, Georgia No. LS2367, Alabama No. LS16447
- Certified BLM Federal Surveyor No.1486

Experience

- AMEC: 1987
- Industry: 1976

Professional Affiliations

- American Association for Geodetic Surveying
- National Society of Professional Surveyors
- Florida Surveying & Mapping Society
- American Society of Civil Engineers

Mark Follis, PLS

Survey and Mapping Services

Mr. Mark Follis has more than 26 years (including 15 years with AMEC) of well-balanced field and office survey experience. Beginning in the office, Mr. Follis progressed from draftsman to survey technician and was involved in both public and private-sector projects. After four years, he chose to broaden his experience record by moving to the field. With his previous knowledge and experience, Mr. Follis quickly became a Party Chief and has been progressing in this role ever since. He has specific project experience in large scale geodetic control, boundary, topographic, hydrographic and construction layout surveys involving GPS and conventional techniques. He has experience in supervising the activities of multiple field crews.

Key Projects

- **MONROE COUNTY BATHYMETRIC SURVEYS**
  Monroe County/Florida Department of Environmental Protection, Florida
  Field Operations: Served as senior field technical lead in the bathymetric surveys of 167 miles of private canals located in the Florida Keys. Utilized dual frequency automated hydrographic survey system in conjunction with GPS real-time positioning system to map the bottoms of the canals and approximate the thickness of sediments to support Monroe County water quality initiatives.

- **CANAL CONVEYANCE CAPACITY PROGRAM**
  South Florida Water Management District, Florida
  Field Operations: Served as field technical lead in the preparation of bathymetric and topographic surveys of 90 miles of District canals in Martin, St. Lucie, and Okeechobee Counties. Primary responsibilities involved establishing geodetic control for all canals, collecting bathymetric data, and supervising topographic surveys of canal overbank areas.

- **TOPOGRAPHIC SURVEY OF STORMWATER TREATMENT AREAS (STA) 3 AND 4**
  South Florida Water Management District, Florida
  Field Operations: Served as senior crew chief in performing a topographic survey of STA 3 and 4, totaling more than 10,000 acres in Palm Beach County. Primary tasks involved densifying horizontal and vertical control and collecting topographic data utilizing GPS-RTK techniques in conjunction with airboat and swamp buggy operations.

- **VC HOLLINGSWORTH WETLANDS RESERVE PROGRAM CONSERVATION EASEMENT BOUNDARY AND TOPOGRAPHIC SURVEYS**
  U.S. Department of Agriculture/Natural Resources Conservation Service, Florida
  Field Operations: Served as senior crew chief in performing surveys associated with the restoration of this 1,200-acre site located in Manatee and Sarasota Counties. The initial task consisted of establishing the property boundaries and access easement to support acquisition by USDA/NRCS. This task was followed by the performance of a detailed topographic survey, including bathymetric survey of the 550-acre Lettuce Lake located within the property..

- **C-24 AND C-25 RIGHT-OF-WAY SURVEYS**
  South Florida Water Management District, Florida
  Field Operations: Served as senior crew chief engaged in restoration of PLSS corners, recovery and location of survey boundary evidence, location of perimeter improvements and boundary monumentation in the development of certified boundary/right-of-way surveys of a portion of the C-24 (3 miles) and C-25 (4 miles) canals in St. Lucie County.

- **USDA/NRCS FISHEATING CREEK ECOSYSTEM RESTORATION PROGRAM**
  U.S. Department of Agriculture/Natural Resources Conservation Service, Florida
  Field Operations: Served as senior crew chief responsible for as-needed control densification and cross section and profile surveys of selected areas and drainage structures located throughout this 23,000-acre project site in Highlands County.

Education

- Studies in Surveying Technology, Valencia Community College

Registrations & Certifications

- Professional Land Surveyor, Florida No. LS6000

Years of Experience

- AMEC: 1998
- Industry: 1985

Professional Development

- FDOT Certified Work Zone Training
- Trimble Navigation GPS Training Seminars
- Confined Space Training
- CSX Transportation Rail Safety Certification
- Florida East Coast Railway Safety Certification
- First Aid Training Certification

Max Ramos, PSM

Survey and Mapping Services

Mr. Max Ramos is combining a sound education with hands-on experience in developing into a well rounded professional. He has 16 years of Florida field/office experience (including 14 years with AMEC) with an emphasis on GPS surveying, GIS computations, deed analysis, preparation of legal descriptions, and automated map production. Mr. Ramos has been involved in all phases of survey projects including planning, recon, measurement, analysis, and presentation of data. He is proficient in the use of adjustment software such as STAR*NET, GEOLAB, and the Trimble Suite of software as well as AutoCAD and Micro Station mapping software.

Key Projects

- **MONROE COUNTY BATHYMETRIC SURVEYS**
  Monroe County/Florida Department of Environmental Protection, Florida
  Field Operations: Provided bathymetric surveys of 167 miles of private canals located in the Florida Keys. Utilized dual frequency automated hydrographic survey system in conjunction with GPS real-time positioning system to map the bottoms of the canals and approximate the thickness of sediments to support Monroe County water quality initiatives.

- **CANAL CONVEYANCE CAPACITY PROGRAM**
  South Florida Water Management District, Florida
  Office Operations: Served as office technical lead in the preparation of bathymetric and topographic surveys of 90 miles of District canals in Martin, St. Lucie, and Okeechobee Counties to support canal conveyance capabilities. Responsible for data reduction and processing and production of plan and profile mapping products.

- **FISHEATING CREEK ECOSYSTEM RESTORATION PROGRAM**
  U.S. Department of Agriculture/Natural Resources Conservation Service, Florida
  Office Operations: Served as senior technical lead responsible for topographic mapping across the 23,000-acre project area in Highlands County, Florida. Responsible for data reduction and processing, computations and map compilation of cross sections of canals and ditches, wetland transsects, and more than 250 drainage structures to support environment engineering planning and design of wetlands restoration measures.

- **REPLACEMENT OF EAST CAPE AND HOMESTEAD CANAL DAMS AT EVERGLADES NATIONAL PARK**
  U.S. National Park Service, Monroe County, Florida
  Office Operations: Served as office technical lead responsible for data processing, computations, and map compilation of control, bathymetric, and topographic surveys of two failing dam sites located at Cape Sable, the southernmost point in the continental United States.

- **TURKEY POINT NUCLEAR PLANT UNITS 6 AND 7 ENGINEERING DESIGN SURVEYS**
  Florida Power and Light Company, Miami-Dade County, Florida
  Office Operations/Senior Survey Technician: Responsible for development of existing site conditions survey maps and wetlands delineation surveys to support permitting process with FDEP and USACE.

- **CONTINUING SURVEYING SERVICES**
  City of Ocoee, Florida
  Survey Office Operations: Has supported development of final products for project assignments that have included boundary surveys, specific purpose surveys, topographic surveys, utility line surveys.

- **CONTINUING SURVEYING SERVICES CONTRACT**
  City of Orlando, Florida
  Survey Office Operations: Supported various City departments, including Public Works, Engineering, Legal, Parks and Recreation, and Drainage. Developed final products for assignments that have included platting, boundary and topographic surveys, utility designation and location, and control surveys.

Education

- B.S. Surveying & Mapping, University of Florida, 1997

Registrations & Certifications

- Professional Surveyor & Mapper, Florida No. LS6458

Experience

- AMEC: 1999
- Industry: 1997

Professional Development

- ArcGIS Training
- Trimble Navigation GPS Training Seminars
- NGS 2nd Order Leveling and Adjustment Seminar
- Terrestrial Laser Scanning
- AutoCAD Training Courses

Gregory Corning, EIT

Bid and Construction Support Services

As a Staff Engineer, Mr. Gregory Corning provides technical input and engineering analysis to projects involving stormwater, hydrologic, and environmental investigations. Mr. Corning has participated in the analysis of surface water quality and stormwater pollutant loadings, treatment of agricultural runoff by wetland systems, design of wastewater and water supply systems, and analysis of stormwater structures and facilities. He has conducted field exploration and research on several environmental projects, such as surface water assessment and monitoring and wetland evaluations. Mr. Corning also has experience in the development of construction documents such as drawings, technical specifications, and cost estimates.

Key Projects

GEIGER KEY CULVERT DESIGN AND PERMITTING

Florida Department of Environmental Protection, Monroe County, Florida

Project Engineer: The project consisted of the design and permit for a culvert connection between canal No. 470 and No. 472 in Geiger Key, Florida. The objectives of the project included:

- Complete preliminary, final and corrected final design plans
- Complete hydraulic modeling of the system
- Prepare permit packages for state, federal, and local agencies at the completion of final design plans
- Complete construction technical specifications and engineer's probable construction cost estimate

The permitting phase included obtaining an Environmental Resource Permit from South Florida Water Management District, a Nationwide Permit from the Army Corps of Engineers, a Florida Key National Marine Santuary Permit, and a Monroe County Public Right of Way Use Permit. The project entailed holding various permitting and design meetings to ensure that the Client and Permitting Agencies were informed on the parameters of the project and to ensure the project meet the agreed upon contract schedule.

DESIGN AND PERMIT OF CANAL WATER QUALITY IMPROVEMENTS IN SIX DEMONSTRATION CANALS THROUGHOUT THE FLORIDA KEYS

Monroe County, Florida

Project Engineer: AMEC is working closely with Monroe County and the Canal Restoration Advisory Subcommittee of the Florida Keys National Marine Sanctuary Water Quality Protection Program to implement a canal restoration demonstration program consisting of implementation of various residential canal water quality improvements. The technologies to be implemented include: weed barriers, organic removal, backfilling, culvert installation, pumping, and combinations of these technologies. AMEC's scope consists of preparation of the design and permit packages for all the restorations, assistance with bidding the construction, and Engineering Support Services during the construction. AMEC initially assisted Monroe County in selecting the top ranked list of demonstration canals to be included in the program. AMEC is obtaining all required permits including South Florida Water Management District Environmental Resource Permit, US Corp of Engineers Dredge and Fill Permit and Florida National Marine Sanctuary Permit. AMEC is working with the Canal Restoration Advisory Subcommittee to develop a streamline permitting process for the restorations. As part of the design scope, AMEC is completing all required environmental surveys, bathymetric and topographic surveys, sediment characterization, geotechnical evaluations and hydraulic modelling. AMEC is also coordinating all homeowner approvals for staging areas and equipment installation.

DESIGN AND PERMITTING

Village of Islamorada, Florida

Project Engineer: The project consisted of the design and permit for a weed barrier system and upgrade existing aeration system at canal No. 137 in Village of Islamorada, Florida. The objectives included:

- Complete final design plans
- Prepare permit packages for state, federal, and local agencies at the completion of final design plans
- Complete construction technical specifications and engineer's probable construction cost estimate

Education

- B.S. Civil Engineering, Florida Atlantic University, 2009

Registrations & Certifications

- Engineer-in-Training, Florida No. 1100014080

Experience

- AMEC: 2010
- Industry: 2010

The permitting phase included obtaining an Environmental Resource Permit from South Florida Water Management District, a Nationwide Permit from the Army Corps of Engineers, and a Florida Key National Marine Santuary Permit. The project entailed holding various permitting and design meetings to ensure that the Client and Permitting Agencies were informed on the parameters of the project and to ensure the project meet the agreed upon contract schedule.

MONROE COUNTY SELECTION OF DEMONSTRATION CANALS FOR WATER QUALITY IMPROVEMENTS

Monroe County, Florida

Project Engineer: AMEC was tasked to develop a screening and ranking process to select five canal restoration demonstration projects out of the 332 canals within Unicorporated Monroe County. The technologies under consideration which have already been permitted and tested and presented in the Canal Management Master Plan (CMMP) included the following:

- Removal of accumulated organics from within canals
- Weed gates, air curtains or other physical barriers to minimize additional organic accumulation in the canals
- Culvert connections to facilitate flushing
- Pumping systems to facilitate flushing, and
- Backfilling to remove deep stagnant zones

A report detailing the selection process methodology and results were prepared and provided to Monroe County for use in bidding the final design and permitting scope for the demonstration projects.

LAKE MANOR RESTORATION DESIGN AND PERMITTING

City of Naples, Florida

Project Engineer: The project consisted of the design, permitting and public involvement, and construction bid support for the Lake Manor Restoration Project in Naples, Florida. The objectives of the project inlcuded:

- Complete 30, 60, 90, 100 percent design plans
- Prepare permit packages for state, federal, and local agencies at the completion of 90 percent design plans
- Complete construction technical specifications and engineer's probable construction cost estimate

The permitting phase included obtaining an Environmental Resource Permit modification from South Florida Water Management District. The project entailed holding various permitting and design meetings to ensure that the Client and Permitting Agencies were informed on the parameters of the project and to ensure the project meet the agreed upon contract schedule.

ICHETUCKNEE TRACE MINING RECLAMATION AND STATE PARK DESIGN

Florida Department of Environmental Protection, Lake City, Florida

Project Engineer: Responsible for the civil design of the infrastructure of the recreational park which included the stormwater system, on-site septic system, and potable water system. The purpose of this project is to design and permit the Ichetucknee Recreational Facility, which includes a swim beach, fishing platforms, boat ramp, trails, restroom facilities, maintenance building, entrance roadway with gatehouse, and a dive platform with loading area. The facilities are located on land owned by the Florida Department of Environmental Protection (FDEP). The project area, which is approximately 660-acres, proposed for the facility is located within Columbia County, Florida in Sections 16,17,20, and 21, Township 5 South, and Range 16 East.

WETLAND RESERVE PLAN OF OPERATION FOR JOSEPH AND CLARICE LOTT PROPERTY

Lake Placid, Florida

Project Engineer: The Joseph and Clarice Lott Wetland Reserve Plan of Operation (WRPO) easement property covers approximately 1,160 acres in Highlands County, FL. AMEC (formerly AMEC) was contracted by the USDA-NRCS to prepare a WRPO for the Easement Restoration Agreement between USDA-NRCS and the landowners. The project was broken down into three phases to achieve historic ecological communities of the aforementioned site. Responsible for preparation of conceptual alternatives, hydrologic and hydraulic modeling for existing proposed and historic conditions, construction drawing preparation, WRPO report preparation, SPAW modeling of wetland hydroperiods, permit application preparation and obtaining permits for construction.

Santiago Jimenez, AIA, LEED AP

Bid and Construction Support Services

Mr. Santiago Jimenez is a licensed architect with more than 15 years of experience as a project manager and architect for large-scale cruise terminals, commercial, industrial, recreational, and institutional projects. He has extensive experience in managing projects, developing contract documents, and on-site construction observation.

As a project manager, he has been responsible for all phases of design and construction, including design development, code and zoning compliance, specifications, construction documents, bidding assistance, and shop drawings, as well as review and construction administration for large-scale transportation, commercial, institutional, and industrial projects. As an architectural group leader, he has also been responsible for the supervision of personnel and financial and resources management.

Mr. Jimenez's project experience includes an aquatic park, trails, gun range, zoo facilities, and site improvements for the Miami-Dade County Parks Department; government facilities for the City of Miami Gardens, as well as numerous projects for port and marine facilities. He has provided design and construction services for several state-of-the-art cruise ship terminals, including the Port of Miami and other major seaports in the United States and internationally.

Key Projects

- **CRUISE TERMINAL G AND F (FORMERLY 3, 4, AND 5)**
  Port of Miami, Florida
  Project Manager: Provided design development and construction documents for a three-story, $76-million project to simultaneously accommodate two Voyager class ships.

- **CRUISE TERMINAL 8 AND 9**
  Port of San Juan, Puerto Rico
  Project Manager: Provided design development and presentations for the cruise terminal, which is able to simultaneously accommodate two megaships.

- **PAN AMERICAN TERMINAL**
  San Juan, Puerto Rico
  Project Manager: Provided design development and construction documents for converting an existing infrastructure into temporary reuse and expanding the facility to accommodate the baggage handling of megacruise ships, as well as the operation of check in, immigration, and customs inspections. The expansion of the building was possible as a result of a pre-engineered metal building.

- **PARKING GARAGE FOR CRUISE TERMINAL G AND F (FORMERLY 3, 4, AND 5)**
  Port of Miami, Florida
  Project Manager: Provided construction documents for a four-story, 750-car parking structure at the Port of Miami. The facility is linked to the new Cruiser Terminal 3, 4, and 5 by a third floor 150-foot passenger bridge.

- **PARKING GARAGE FOR CRUISE TERMINAL 8 AND 9**
  Port of Miami, Florida
  Project Manager: Provided design development, including drawings and specifications, for a design-build parking facility. The parking facility will accommodate 1,600 vehicles within four levels, including an adjacent surface parking lot for tall vehicles.

- **MUVICO THEATER PARKING GARAGE**
  Boca Raton, Florida
  Project Manager: Provided construction documents for a two-story, 103,000-square-foot parking garage capable of accommodating 575 vehicles. The design featured pre-cast and pre-stressed concrete and was designed to complement the Moorish theme of the complex.

- **PARKING GARAGE FOR CRUISE TERMINAL D**
  Port of Miami, Florida
  Project Manager: Provided construction documents and permitting assistance for a four-story, 750-vehicle parking facility. The facility was designed with pre-cast and pre-stressed concrete.

Education

- Master of Architecture, Suburb and Town Design, University of Miami, 2006
- B.A. Architecture, Cristobal Colon University, Veracruz, Mexico, 1995

Registrations & Certifications

- Registered Architect, Florida No. AR94369
- Certified General Contractor, Florida No. CGC1513569
- Licensed Architect, Mexico
- LEED Professional Accreditation

Experience

- AMEC: 2014
- Industry: 1996

Professional Affiliations

- American Institute of Architects
- U.S. Green Building Council

ZOO MIAMI IMPROVEMENTS
Miami-Dade County Parks and Recreation Department, Miami, Florida
Project Manager: Provided design services to implement zoo-wide improvements and master plan recommended expansion for the new "Florida Exhibit." The scope of services included professional architectural and engineering services, such as civil, structural, mechanical/plumbing, electrical, landscape, and interpretive design services. Services also included programming, schematic design, design development, construction document development, construction administration, and bidding and award assistance. The construction budget is $34 million and construction is scheduled for completion by spring 2015.

AMELIA EARHART PARK, AQUATIC COMPLEX AND PARK IMPROVEMENTS
Miami Dade County Parks and Recreation Department, Miami, Florida
Project Manager: The work includes the review and coordination of environmental, ecological, and archaeological services to develop the property into a family-orientated water-park and mountain bike facility. The proposed facilities include a water park with lazy river; water splash area; water slides; wave pool with supporting locker/restrooms; administration areas; concession areas; and a mountain bike facility. The construction budget is $8 million and construction work is scheduled for completion by fall 2014.

TRAIL GLADES PARK
Miami-Dade County Parks and Recreation Department, Miami, Florida
Project Manager: The project included the restoration and improvement of an existing shooting facility in western Miami-Dade County. The project's scope included environmental clean-up, design upgrades to existing ranges, development of new ranges, and upgrades to existing parking facilities to make the site handicap accessible. The work was completed in phases with Phase I successfully completed on schedule in winter 2010. Phase II was completed in spring 2013. Services included design development, construction documents, permitting, and architectural and engineering construction administration for the project. As part of the construction administration services, also coordinated and monitored the design work with the construction contractors, responded to RFI, reviewed shop drawings, and reviewed payment requisitions.

NORTH TRAIL PARK
Miami-Dade Parks and Recreation Department Miami, Florida
Project Manager: Completed architectural services for a 4,450-square-foot recreational facility, which included multipurpose rooms, a game room, an arts and crafts room, offices, a restroom, and a kitchen. Storage for athletic equipment was also designed.

BIRD LAKES PARK
Miami-Dade Parks and Recreation Department, Miami, Florida
Project Manager: Provided complete architectural services for a 3,000-square-foot, one-story recreation building that included a kitchen facility, snack bar, restrooms, meeting room, and mechanical and storage areas, as well as a lighted parking lot and a 800-square-foot covered open area.

MIAMI GARDENS MUNICIPAL COMPLEX
Miami, Florida
Project Manager: Provided design services and construction document preparation for the new municipal complex in the City of Miami Gardens. The project included a city hall, police building, and a multi-story parking garage. The project incorporates sustainable design and state-of-the-art green technology to achieve a LEED Platinum certification by the USGBC. The work was scheduled for completion in phases with Phases 1 demolition completed in October 2011. The construction budget was $39 million and work was completed in fall 2013.

DOCK MASTER BUILDING AT PELICAN HARBOR MARINA
Miami, Florida
Project Manager: Provided design development and construction documents for two-story, 3,500-square-foot office building for the operation of the dock master's marina. The project included offices, multipurpose room, laundry, showers, and site improvements. The dock master building is the only facility incorporated in this project and conforms to a Streamline Moderne style of Art Deco.

Jose A. Milian

CAD/GIS Services

Mr. Jose Milian has performed more than 180 visual assessments including the use of specialized photo simulation software. He has also served as the CAD design lead for several multi-million dollar jobs for the FDOT as well as several out of state architectural and structural airport projects. His specific areas of expertise include the utilization of 3D animations, renderings, walk-throughs, and telecommunications, as well as environmental, architectural, structural, transportation, and geotechnical CAD design.

He has created numerous photo simulations for AMEC's Architecture & Engineering Infrastructure Design Department. These simulations were used for tower collocations, rooftop installations, and new build view shed analysis sites. In addition to new build visual assessments, Mr. Milian has created rooftop visual assessments depicting future antennas and telecommunication equipment. He also develops designs that require matching of ambient colors to satisfy building codes and municipal requirements. Additional examples are concealment flagpoles, clock towers, mono-palms, mono-pines, monopoles, stealth crosses, bell towers, light poles, and water towers.

Key Projects

- **MONROE COUNTY CANAL MANAGEMENT MASTER PLAN, PHASE 2**
  Monroe County, Florida
  GIS Data Administrator: The project was funded by an EPA grant and involves completing the Canal Management Master Plan created during Phase 1 for the entire Florida Keys. All of the approximately 502 residential canals are being evaluated through field visits to determine water quality impacts and to identify appropriate cleanup options. Extensive homeowner interviews and meetings have been performed. The canals will be ranked for need for water quality improvement. An updated GIS database is being prepared incorporating the new information obtained on the Keys canals related to water quality and restoration options.

- **DEPARTMENT OF ENVIRONMENTAL MANAGEMENT BUILDING 66 SITE ASSESSMENT**
  Miami-Dade County, Florida
  CAD/Environmental Professional: Provided soil and groundwater assessment and created environmental data and GIS location plans.

- **DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RED TOP SEDAN SOURCE REMOVAL**
  Miami-Dade County, Florida
  CAD/Environmental Professional: Provided source removal services and created environmental data and GIS location plans.

- **STATE ROUTE 5A KEY WEST RECONSTRUCTION CONSTRUCTION ENGINEERING INSPECTION AND PROJECT MANAGEMENT**
  Florida Department of Transportation, Florida
  CAD Specialist: Provided CEI and project management for the reconstruction of 8 miles of major state highway (SR-5A) in Key West, along with bridge approach slab reconstruction, embankment and drainage repair, and landscaping. Prepared Photo-Sims and renderings used for proposal purposes.

- **STORMWATER SERVICES AT FORT LAUDERDALE INTERNATIONAL AND NORTH PERRY AIRPORTS**
  Broward County Aviation Department, Florida
  CAD/Environmental Professional: Provided stormwater compliance services for tenant facilities at Fort Lauderdale International and North Perry airports. Services included sampling, permitting, and facility inspections. Created environmental data plans and GIS location plans.

- **JUPITER WEST FACILITY**
  CB Richard Ellis Group, Inc./Florida Power & Light, Florida
  CAD Specialist: Provided engineering services for Florida Power & Light at Jupiter West Facility. Performed design services for site layout, as well as created Photo-Sim and Renderings.

Registrations & Certifications

- More than 220 hours of online training for Microstation and FDOT
- Revit Architecture 40-hour course

Experience

- AMEC: 2009
- Industry: 1994

Aziza R. Baan, GISP

CAD/GIS Services

Ms. Aziza Baan serves as a Scientist and GIS Analyst and has more than seven years of experience utilizing Geographic Information Systems (GIS) and Environmental Science in her work. Ms. Baan manages GIS tasks and is proficient in working with GIS in environmental, water resources and civil disciplines. Using her strong science and GIS expertise, she specializes in stream and wetland restoration planning and design, watershed modeling, geospatial database design, floodplain mapping, land use planning, environmental risk assessments, environmental permitting, terrain processing and spatial and volumetric analysis.

Ms. Baan manages staff and GIS tasks and performs data research, data compilation, database development, aerial interpretations, data interpolations, and QA/QC analysis. Her multidisciplinary background includes assisting with ecological and wetland site evaluations, delineations, and field assessments on various projects. Her software proficiency includes ArcView, ArcInfo , Trimble GPS, X-Tools, ET Geowizards, CrossView , Feature Analyst, Microsoft Access, Sigma Plot and MIKE 11 GIS. Ms. Baan has also provided GIS training and assistance to interns, technicians, scientists, and engineers of various GIS experience levels.

Key Projects

BRAZILIAN PEPPER RIGHT-OF-WAY MAPPING

Florida Department of Transportation, Florida

GIS Specialist: Conducted GIS mapping, field investigations, and aerial interpretations to determine the Brazilian Pepper density variation along Interstate 75 and the east coast of Florida.

GILSHEY BRANCH WEST PISGAH WETLAND DESIGN

The Mosaic Company, Florida

GIS Specialist: Provided geomorphology design recommendations for two herbaceous wetlands proposed for construction west of Mount Pisgah Road, Polk County, on a parcel of mined land. The wetlands were designed to be reclaimed higher than the nearby Peace River bottomlands to facilitate groundwater flow toward this system across the project area. A material balance and distribution of cut and fill depths provided a topographic solution using the available in-situ overburden materials.

WETLAND DELINEATIONS AND ECOLOGICAL EVALUATIONS

Central Florida

Environmental Scientist: Conducted more than 25 ecological and wetland site evaluations in Central Florida. Investigated sites for endangered species and species of special concern, conducted ecological assessments, and delineated wetlands. Generated technical data reports and maps using GIS to represent the data collected.

LAKE ROWELL AQUATIC ENHANCEMENT

Florida Fish & Wildlife Conservation Commission, Florida

GIS Specialist: Gathered, researched, and performed analysis for a preliminary design for the proposed dredging of Lake Rowell. Analyzed land use, soils, floodplains, wildlife, utilities, roads, and property parcel data to determine viable site options for placing dredged material from Lake Rowell.

STALLION CREEK RESTORATION

Southwest Florida Water Management District, Florida

Water Resource Scientist/GIS Specialist: Assisted in a proposed stream design re-establishing an old stream connection that has been mined. Created a DEM from mined pits depth data and digitized blue lines to make cut and fill volumetric calculations for the proposed stream and proposed wetland areas surrounding the stream.

FLORIDA DEPARTMENT OF TRANSPORTATION UPDATES

Florida Department of Transportation, District 7, Florida

GIS Specialist: Gathered and analyzed data concerning stormwater facilities locations for District 7, and produced and updated location maps.

Education

- Post Baccalaureate GIS Graduate Certificate, Penn State University, 2012
- B.S. Environmental Science, Florida Institute of Technology, 2005

Registrations & Certifications

- Geographic Information Systems Professional No. 43030
- MSHA Training
- SCUBA (IANTD) Certification

Experience

- AMEC: 2006
- Industry: 2005

Professional Affiliations

- Central Florida GIS Users Group
- American Water Resources Association
- Florida Urban and Regional Information Systems Association

Dustin Atwater

CAD/GIS Services

Mr. Dustin Atwater is a Geographic Information Systems (GIS) specialist working in the environmental discipline. Responsibilities include management, implementation, and development of the GIS applications. He has several years of experience in environmental planning. Mr. Atwater has applied working knowledge of GIS technology, including ArcHydro, ArcView, ArcInfo and ArcGIS 10. He has used Arcview, ArcGIS, Visual Basic, and Microsoft spreadsheet and database programs. His primary duties include database design, spatial analysis, data conversions and mapping. As an Environmental Planner, Mr. Atwater has gained experience analyzing, modeling and mapping natural resources including wetland and aquatic vegetation, forests and endangered species habitats. He also has experience in analyzing land use and impervious surfaces. Mr. Atwater is charged with the management and quality assurance of deliverables on an ongoing basis.

Key Projects

HIGHSPEED RAIL ENVIRONMENTAL PERMITTING AND CIVIL ENGINEERING SERVICES

All Aboard Florida, Florida

GIS Specialist: All Aboard Florida (AAF), a subsidiary of Florida East Coast Industries, Inc. (FECI), is developing a privately owned, operated, and maintained passenger rail that will connect south Florida to Orlando. AMEC was selected to provide environmental permitting and civil engineering services. The project is composed of two distinct segments; a 200-mile north-south segment of the existing Florida East Coast Railroad right-of-way (ROW), from Cocoa to Miami, and a 40-mile east-west segment along State Road 528 that connects Orlando to the FECI mainline. As a GIS Analyst Mr. Atwater's responsibilities included database creation and management, desktop surveys of readily available information regarding the subject sites: aerial photography, National Wetlands Inventory data, USGS data, hydrologic feature data, parcel data, Land Use data and soils data, Mr. Atwater utilized this data in his GIS analysis. Mr. Atwater provided GIS analysis in support of permit applications.

RIVERSIDE FILTER MARSH

City of Naples, Florida

GIS Specialist: Provide engineering services to prepare designs, permits and provide construction services for a filter marsh to treat stormwater discharge from the Goodlett Road Pump Station. Responsible for GIS analysis, supporting Engineering staff with modeling efforts, and providing GIS maps.

COLT CREEK STATE PARK HYDROLOGIC RESTORATION

Southwest Florida Water Management District, Lakeland, Florida

GIS Specialist: This project consists of the assessment, design, and environmental permitting in an effort to restore hydrologic and natural systems within the Colt Creek State Park area to a more historic condition. The District hired AMEC to conduct these services, including a hydrologic model analysis to determine baseline hydrologic conditions as well as both on-site and off-site effects of proposed restoration alternatives. The primary objective of this project is recover the hydrologic functions of storage and conveyance and the ecological value of wildlife habitat diversity in wetland systems that have been lost or degraded due to disturbance by onsite ditching and farming practices. Responsible for analysis and modeling using GIS. In conjunction with engineering staff, provided hydrologic modeling data with the use of ArcHydro and ArcGIS.

JACK CREEK HYDROLOGIC & WETLAND RESTORATION

Southwest Florida Water Management District, Sebring, Florida

GIS Specialist: This project consists of design and permitting for the hydrologic and natural systems restoration of impacted wetlands on the Jack Creek Tract in Highlands County. Responsible for GIS support and analysis. Assisted engineering staff in the prodction of hydrologic models with the use of ArcHydro. Provided maps and figures produced with ArcGIS.

Education

- Bachelor of Landscape Architecture Landscape Ecology, University of Minnesota , 2000

Registrations & Certifications

- FL DEP Stormwater Erosion and Sedimentation Control Inspector, #25050

Experience

- AMEC: 2011
- Industry: 2000

Software Training

- Microsoft Office Word
- ArcInfo/ArcGIS 10.x, 9.x, 8.x
- ArcView 3.x
- ArcScene
- ArcHydro
- ArcSDE using SQL server
- AutoDesk Suite including Land Development Desktop, 2011 Map, and Civil 3D
- Sketch-Up Pro
- Adobe Suite
- Proficient in Windows 95-98-2000-XP, Vista
- Microsoft Office Suite

Licenses and Registrations

State of Florida

Board of Professional Engineers

Attests that

AMEC Environment & Infrastructure, Inc.

is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2015
Audit No: 228201504712

Certificate of Authorization

CA Lic. No: 5392

AC# 6182125

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

SEQ# L1207020231

DATE	BATCH NUMBER	LICENSE NBR
07/02/2012	120002583	GB514

The GEOLOGY BUSINESS
Named below IS CERTIFIED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2014

AMEC ENVIRONMENT & INFRASTRUCTURE, INC.
1105 LAKEWOOD PKWY STE 300
ALPHARETTA GA 30009

RICK SCOTT
GOVERNOR

DISPLAY AS REQUIRED BY LAW

KEN LAWSON
SECRETARY

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LB7932
Expiration Date: February 28, 2015

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

AMEC ENVIRONMENT & INFRASTRUCTURE, INC.
1105 LAKEWOOD PKWY STE 300
ALPHARETTA, GA 30009-7625

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

State of Florida

Board of Professional Engineers

Attests that

Ricardo Fraxedas, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015
Audit No: 228201503862

P.E. Lic. No: 43287

State of Florida

Board of Professional Engineers

Attests that

Charlene A. Stroehlen, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015
Audit No: 228201507958

P.E. Lic. No: 58774

State of Florida

Board of Professional Engineers

Attests that

Luis Alberto Ponce, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015
Audit No: 228201505855

P.E. Lic. No: 71723

State of Florida
Department of State

I certify from the records of this office that AMEC ENVIRONMENT & INFRASTRUCTURE, INC. is a Nevada corporation authorized to transact business in the State of Florida, qualified on August 3, 2000.

The document number of this corporation is F00000004389.

I further certify that said corporation has paid all fees due this office through December 31, 2014, that its most recent annual report/uniform business report was filed on January 16, 2014, and its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Sixteenth day of January, 2014

Secretary of State

Authentication ID: CC4759816059

To authenticate this certificate,visit the following site,enter this ID, and then follow the instructions displayed.

https://efile.sunbiz.org/certauthver.html

State of Florida

Board of Professional Engineers

Attests that

Peter John Medico, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015
Audit No: 228201515429

P.E. Lic. No: 42654

State of Florida

Board of Professional Engineers

Attests that

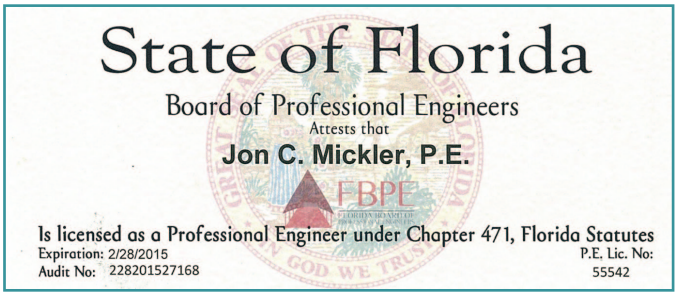
Russell E Stauffer, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

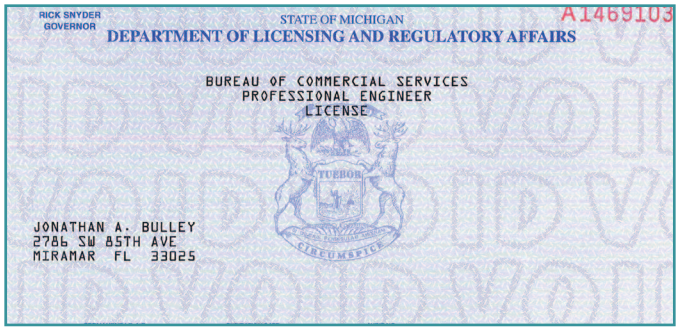
Expiration: 2/28/2015
Audit No: 228201520841

P.E. Lic. No: 25233

State of Florida
Board of Professional Engineers
Attests that
Stephen Joseph Hanks, P.E.
Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2015
Audit No: 228201524318
P.E. Lic. No: 72253



State of Florida
Board of Professional Engineers
Attests that
Jon C. Mickler, P.E.
Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2015
Audit No: 228201527168
P.E. Lic. No: 55542

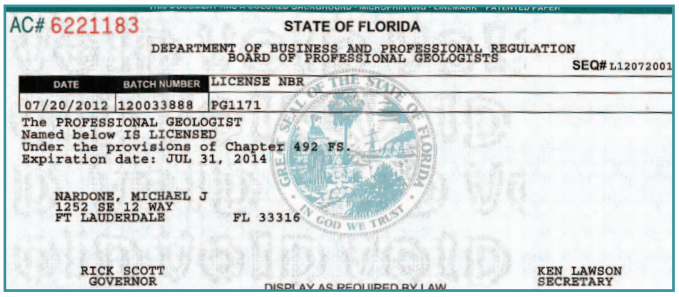


RICK SNYDER
GOVERNOR
STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
A1469103
BUREAU OF COMMERCIAL SERVICES
PROFESSIONAL ENGINEER
LICENSE
JONATHAN A. BULLEY
2786 SW 85TH AVE
MIRAMAR FL 33025

CA.GOV
Department of Consumer Affairs
Board for Professional Engineers and Geologists
CONSUMERS
License Search for Professional Engineers and Land Surveyors

Licensee Name:	REITTER ERIC T
License Type:	CIVIL ENGINEER
License Number:	78832
License Status:	CLEAR Definition
Expiration Date:	September 30, 2015
Address:	11685 CALLE PARACHO
City:	SAN DIEGO
State:	CA
Zip:	92128
County:	SAN DIEGO
Actions:	No

Public Record Action(s)
This information is updated Monday through Friday - Last updated: JUL-01-2014



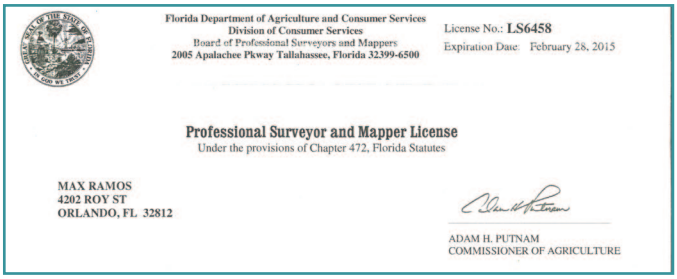
AC# 6221183
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS
SEQ# L12072001

DATE	BATCH NUMBER	LICENSE NBR
07/20/2012	120033888	PG1171

The PROFESSIONAL GEOLOGIST
Named below IS LICENSED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2014

NARDONE, MICHAEL J
1252 SE 12 WAY
FT LAUDERDALE FL 33316

RICK SCOTT
GOVERNOR
DISPLAY AS REQUIRED BY LAW
KEN LAWSON
SECRETARY

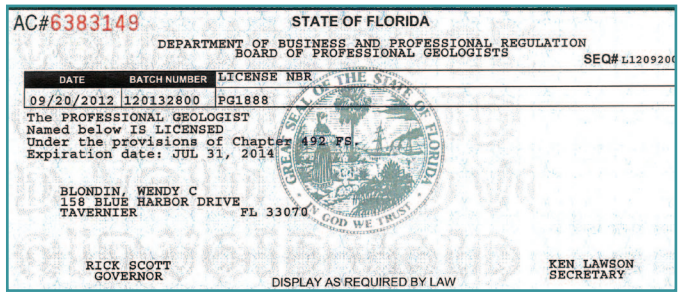


Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500
License No.: LS6458
Expiration Date: February 28, 2015

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

MAX RAMOS
4202 ROY ST
ORLANDO, FL 32812

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE



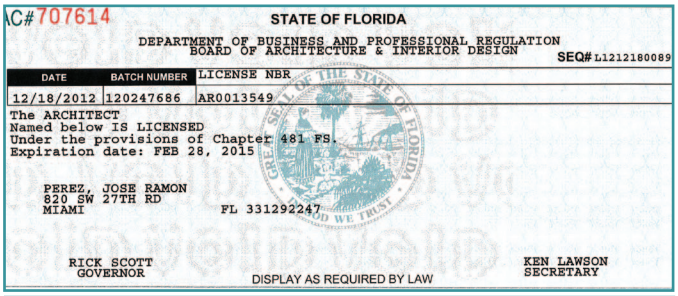
AC#6383149
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS
SEQ# L1209200

DATE	BATCH NUMBER	LICENSE NBR
09/20/2012	120132800	PG1888

The PROFESSIONAL GEOLOGIST
Named below IS LICENSED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2014

BLONDIN, WENDY C
158 BLUE HARBOR DRIVE
TAVERNIER FL 33070

RICK SCOTT
GOVERNOR
DISPLAY AS REQUIRED BY LAW
KEN LAWSON
SECRETARY



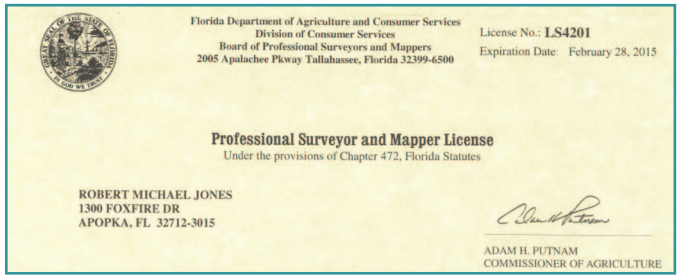
AC#707614
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN
SEQ# L1212180089

DATE	BATCH NUMBER	LICENSE NBR
12/18/2012	120247686	AR0013549

The ARCHITECT
Named below IS LICENSED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2015

PEREZ, JOSE RAMON
820 SW 27TH RD
MIAMI FL 331292247

RICK SCOTT
GOVERNOR
DISPLAY AS REQUIRED BY LAW
KEN LAWSON
SECRETARY

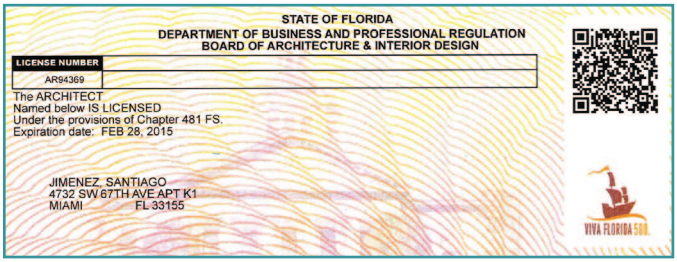


Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500
License No.: LS4201
Expiration Date: February 28, 2015

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

ROBERT MICHAEL JONES
1300 FOXFIRE DR
APOPKA, FL 32712-3015

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE



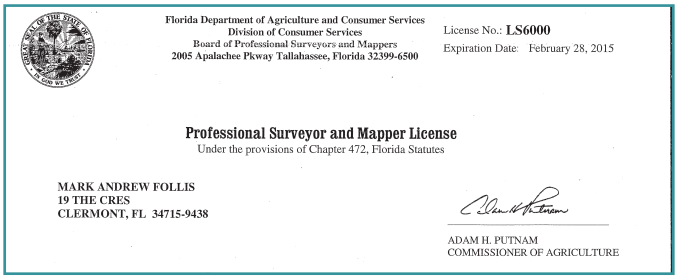
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN

LICENSE NUMBER
AR94369

The ARCHITECT
Named below IS LICENSED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2015

JIMENEZ, SANTIAGO
4732 SW 67TH AVE APT K1
MIAMI FL 33155

VIVA FLORIDA 500

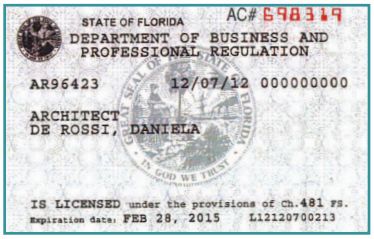


Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500
License No.: LS6000
Expiration Date: February 28, 2015

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

MARK ANDREW FOLLIS
19 THE CRES
CLERMONT, FL 34715-9438

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE



STATE OF FLORIDA
AC# 698319
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
AR96423 12/07/12 000000000
ARCHITECT
DE ROSSI, DANIELA
IS LICENSED under the provisions of Ch.481 FS.
Expiration date: FEB 28, 2015 L12120700213

GIS Certification Institute

This certifies that

Aziza R. Baan

has met the standards for ethical conduct and professional practice as established by the GIS Certification Institute for recognition as a

Certified Geographic Information Systems (GIS) Professional (GISP)

and is therefore entitled to all the rights and privileges thereunder.

This grant of certification shall expire or be deemed inactive on 11/25/2017 unless, by that date, the individual shall have successfully completed recertification.

Certification Number 43030 Date Certified 11/25/2012

Michael Vanhook, GISP
GISCI President

Sheila Wilson, GISP
GISCI Executive Director

Florida Department of Business & Professional Regulation

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Licensee Details

Licensee Information

Name:	PERRY, RICHARD W (Primary Name) P2 GENERAL CONTRACTORS INC (DBA Name)
Main Address:	4100 NORTH WICKHAM ROAD PMB152 MELBOURNE Florida 32935
County:	BREVARD
License Mailing:	
LicenseLocation:	

License Information

License Type:	Certified General Contractor
Rank:	Cert General
License Number:	CGC1504246
Status:	Current,Active
Licensure Date:	05/09/2002
Expires:	08/31/2014

Special Qualifications	Qualification Effective
Construction Business	03/09/2005

Section 3
Past Work Experience

Relevant Experience

The AMEC team is comprised of a group of uniquely qualified and experienced professionals from AMEC and Terramar who possess a comprehensive understanding of all of the services that may be required under this contract, including contaminated site investigation and remediation, industrial hygiene services, underground storage tank site services, real estate development support services, and coastal engineering.

AMEC has been working in the Keys for almost two decades providing a variety of engineering, environmental, and construction-related projects. Our past and present experience with design, construction, and permiting in the Florida Keys provide us first-hand knowledge of the issues in this sensitive area of Florida.

In 2003, AMEC completed the initial Monroe County effort to inventory and assess all the residential canals in the Keys. In 2012, AMEC in association with Monroe County, was awarded a FDEP grant to initiate a Canal Management Master Plan (CMMP) – Phase 1. AMEC, in association with Monroe County, was also awarded an EPA grant to complete the CMMP (Phase 2) which addresses all of the approximately 502 residential canals in the Florida Keys. AMEC also competitively won the Canal Restoration Demonstration Selection Project and is working closely with Monroe County to develop a successful canal restoration program.

AMEC previously served as the FDOT District 6 Miscellaneous Environmental Permits Consultant, assisting the FDOT in obtaining the environmental permits necessary for the District's roadway and bridge projects. In addition, over the past several years AMEC has conducted environmental site observations (ESOs) on more than 80 properties on Big Pine Key for the FDEP Bureau of Land Acquisition. Our work in the Florida Keys and with FDEP and FDOT District 6 allows AMEC to possess firsthand knowledge of the sensitive environments and unique issues related to construction in these areas and allows us to incorporate this information into "buildable," environment-friendly construction projects.

LAP and Federally Funded Projects

AMEC's engineers, inspectors, planners, scientists, and administrative professionals have completed successful projects for more than 30 State Departments of Transportation and more than 40 county and municipal agencies nationwide, as well as for the Federal Highway Administration (FHWA). In addition to our planning and engineering expertise, our multidisciplinary staff is actively engaged in assisting our clients with right-of-way design and acquisition, access management, traffic analysis, and environmental documentation and permitting. Our construction services offer the added benefit of having an in-house FDOT certified materials testing laboratory.

Our team has thorough knowledge of the FDOT's Local Agency Program Manual, FDOT's "Construction Project Administration Manual" and the "Final Estimates Preparation and Documentation Manual" that covers all of the requirements and procedures used on FDOT projects. Our experience is demonstrated by an ability to maintain staffing and the credentials necessary to pre-qualify for FDOT work.

World skills on your doorstep

We are more than 29,000 people in more than 40 countries globally - ***but focused on you.***

Our skills and experience around the world are key elements in choosing AMEC. Our clients know we can rise to the challenge. We say "on your doorstep" because our customers recognize the **value of our local presence.**

AMEC has provided inspection and compliance services to the City of Key West for 13 American Recovery and Reinvestment Act (ARRA) stimulus funded projects along with three Local Agency Participation (LAP) projects. These federally-funded improvement projects required weekly documentation and compliance inspections to assure the City was meeting Federal Regulations for minority businesses and minimum wage rates. The field inspection staff continually monitored the contractor's efforts, documented the work completed, and provided assurance that the materials incorporated into the project met minimum standards. The staff also monitored the traffic control devices to assure compliance with Maintenance of Traffic plans and general standards for public motorists and pedestrians. The scope of work also included inspection of Best Management Practices (BMPs) used to control stormwater runoff and dewatering efforts used by the contractor. In general, the City relied on AMEC to give them assurance the project met all standards and was in compliance with all permitted activities.

Additonal projects specifically performed in the Florida Keys, include:

- Monroe County Selection of Canal Demonstration Projects – Monroe County Engineering Services
- Monroe County Canal Bathymetry Sediment Characterization - Monroe County Engineering Services
- Monroe County Canal Management Master Plan Phase I and Phase II
- Monroe County Residential Canals Inventory and Water Quality Assessment GIS Services
- Geiger Creek Bridge Design-Build Construction Engineering and Inspection - Monroe County
- Tom's Harbor Bridge Rehabilitation Construction Engineering and Inspection - Monroe County
- Florida Keys Construction Engineering and Administration Residency Contract - Florida Department of Transportation, District 6
- Master Engineering Contract - City of Key West
- Jewfish Creek Bridge Design Build - Florida Department of Transportation, District 6
- Flagler Avenue Phase I and Phase II Construction Engineering and Inspection - City of Key West
- Florida Keys Aqueduct Authority General Engineering Services - Florida Keys Aqueduct Authority
- Cay Clubs Properties Facilities Engineering Services - Cay Clubs International

On the following pages are more detailed descriptions for AMEC's recent Florida projects relating to the scope listed in this RFQ, including:

- Garrison Bight Marina Environmental Services
- Village of Isalmorada Canal Restoration Design and Permitting
- Monroe County Demonstration Canal Restoration Design, Permit, Bid Support, and Engineering Services During Construction
- Monroe County Canal Bathymetry and Sediment Characterization
- Culvert Design and Permitting and Sediment Testing on Monroe County Demonstration Canals
- Sugarloaf Key Soil and Groundwater Assessments
- Red Top Sedan
- Chevron Texaco Environmental Services at Various Sites Throughout the Caribbean
- Gateway K-8 Learning Center
- Bank of America Proposed Chick-Fil-A-Site
- Indoor Air Quality and Environmental Facilities Consulting
- Indoor Air Quality and Environmental Facilities Consulting
- Banana River Shoreline Stabilization at Patrick Air Force Base

Garrison Bight Marina, Key West, Florida Environmental Services

Scope

AMEC performed a remedial system evaluation and feasibility study of an existing soil and groundwater remediation system for the Garrison Bight Marina on behalf of AIG Insurance. Soil and groundwater had been impacted by an underground storage tank at the site. Based on the results of the feasibility study, AMEC installed additional soil vapor extraction (SVE) wells and air sparge (AS) wells in the source area to expedite site remediation and approval of site closure from the FDEP.

AMEC designed and installed an upgraded remediation equipment trailer capable of operating 24 hours per day seven days a week in order to maximize the remediation of the soil and groundwater impact. Due to tidal influences at the site, the remedial equipment was designed to automatically restart following shut-down of the system during high tidal events. AMEC worked with the FDEP regarding the remedial system design modifications to ensure continuous operation of the remedial equipment.

Operation and maintenance inspections of the remediation system are performed by AMEC on a bimonthly basis in order to optimize system operation and site clean-up. Quarterly groundwater sampling is conducted to monitor the progress of site remediation activities and reduce dissolved groundwater concentrations to below the FDEP groundwater cleanup target levels (GCTLs).

Based on the site remediation progress to date, it is expected that the site will qualify for No Further Action (NFA) this year.

Client
- Garrison Bight Marina

Frank Bervaldi
President
711 Eisenhower Drive
Key West, Florida
USA 33040
305.294.3093 (p)

Location
- Key West, Florida

Key Staff
- Stephen Hanks, PE, CFM
- Paul Thornbury
- Marcelo Pichardo

Project Cost
- $150,000
- Construction: N/A

Start Date
- 2011

Completion Date
- Ongoing

Monroe County Demonstration Canal Restoration Design, Permit, Bid Support, and Engineering Services During Construction

Scope

The project consisted of the design, permitting, bid support, and engineering services during construction for 6 canal restoration demonstration projects. The restorations include: backfilling, organic removal, organic removal in combination with installation of a weed barrier, installation of weed barrier alone, and culvert installations at two sites. AMEC developed a ranking criteria along with the Canal Management Master Plan (which AMEC prepared), to select the demonstration sites. AMEC is working closely with the County and the Water Quality Protection Program Canal Restoration Advisory Subcommittee to develop a streamlined permitting process and obtain realistic cost and effectiveness data for each of the technologies. The demonstration program is the initial rollout of the implementation of the Canal Management Master Plan.

The scope of work includes (1) complete preliminary, final and corrected final design plans; (2) complete hydraulic modeling of the system, if required; (3) prepare permit packages for state, federal, and local agencies at the completion of final design plans; (4) complete construction technical specifications and engineer's probable construction cost estimate; 5) assist Monroe County with the bidding of the projects; 6) provide Construction Administration and Construction Engineering Inspection Services for all the installations. Details of the tasks are discussed below.

Field Data Collection/Bathymetric and Topographic Survey

AMEC is obtaining bathymetric and topographic data for the affected canal areas and surrounding structures within the project boundaries. The bathymetric survey will be carried out utilizing a survey-grade GPS unit operating in Real Time Kinematic (RTK) mode mounted atop an adjustable height rod. The apparatus will be used in a boat to traverse the canal area as best as possible to establish a grid of canal bottom elevations sufficient to develop a digital elevation model. The topographic data will be acquired using traditional survey methodologies for the road, existing utilities, private property, and any other significant structures as needed within the project boundaries. Topographic and bathymetric maps will be prepared for design and permitting of the project. Tidal studies will be performed for the culvert restoration projects to be input into hydraulic models. Sediment characterization for the organic removal projects will be performed to design adequate dewatering systems.

Ecological Surveys

AMEC will conduct a determination of the boundaries of jurisdictional waters of the U.S., including wetlands, on the subject sites, as required for permitting. Wetlands will be defined using the Routine On-Site Determination method as described in the 1987 United States Army Corps of Engineers (USACE) Corps of Engineers Wetlands Delineation Manual or the Delineation

Client
- Monroe County

Rhonda Haag
Sustainability Program Manager
102050 Overseas Highway
Suite 246
Key Largo, Florida
USA 33037

Location
- Multiple locations throughout the Keys including Big Pine, Key, Key Largo, and Geiger Key, Florida

Key Staff
- Wendy Blondin, PG
- Stephen Hanks, PE, LEED AP
- Jeremy Paris, PWS
- R. Michael Jones, PLS, CFedS
- Gregory Corning, EI

Project Cost
- Engineering: $670,000
- Construction: $4.3 million

Start Date
- May 2014

Completion Date
- Ongoing

of the Landward Extent of Wetlands and Surface Waters [Florida Department of Environmental Protection (FDEP), Chapter 62.340, F.A.C]. Both protocols use a series of tests to address three characteristics of wetlands, including the presence/absence of hydrophytic vegetation, wetland hydrology, and hydric soils. If any wetlands are identified then a UMAM form will be completed. In conjunction with the wetland delineation, AMEC scientists will field verify the FIU threatened and endangered species surveys and in-water surveys of the benthos for the purpose of identifying the presence of any sensitive aquatic resources (i.e. seagrasses, corals, or sponges) within the immediate area of the proposed projects. AMEC will prepare Ecological Evaluation Reports for each site utilizing all the above data as required for the Environmental Resource Permit (ERP). AMEC has scientists permitted by the Florida Keys National Marine Sanctuary to complete the necessary field surveys.

Engineering Recon and Geotechnical Exploration

AMEC will conduct engineering site visits at all the restoration sites to determine the site conditions within the project boundaries including utilities, existing conditions, restoration requirements, and traffic hazards. Geotechnical field explorations will be performed by AMEC engineers at the two culvert project sites. Soils were identified and classified by means of the Unified Soil Classification System as prescribed in ASTM Designations D2487 and D2488. Select laboratory testing will be completed as required for the designs.

Design Plans and Specifications

AMEC will prepare, preliminary and final design plans, specifications, and hydraulic models, as needed, for the restoration projects. The design plans will include an existing site plan, proposed site plan, proposed grading plans, erosion and sediment control plans, and construction details. As part of the design package, AMEC will prepare a hydraulic model using HEC-RAS 4.1. AMEC will also prepare an engineer's construction cost estimate for projects.

Preparation and Submittal of Permit Application Packages

AMEC will complete and submit all required local, state, and federal permit applications, using

the final design plans. The following permitting agencies will be consulted concerning required permit packages:

- SFWMD Environmental Resource Permit (ERP)
- USACE – Dredge and Fill Permit
- FKNMS Permit
- Monroe County Public Right-of-Way Use Permit
- Monroe County Building Department
- FDOT MOT Plans

Bid Support and Engineering Services During Construction

AMEC will assist Monroe County with all phases of bidding the restoration work and selecting the construction contractors. This includes review of the Bid Packages and preparation of Addenda as required, attending Pre-Bid Conferences and site walk-through, conducting a Responsibility Review of the Apparent Low Bidder in accord with requirements, and attending a Pre-Award Conference to discuss the Bidder's qualifications and understanding of the Project.

AMEC will provide Engineering Construction Administration services and Construction Engineering Inspection services for the six canal restoration projects. Tasks include: Pre-Construction Conference and Site Walk-Through; Construction Progress Meetings; review of contractor requests for information; review of contractor submittals (schedules, samples, product data, shop drawings, installation drawings, etc.); project Close Out; consultation and advice to the County regarding the Contractor's performance of the contract; daily inspections and work reports showing contractors activities, equipment, maintenance of traffic and environmental compliance.

Monroe County Canal Bathymetry and Sediment Characterization

Scope

AMEC is performing bathymetric surveys to determine the average depths of the residential canals identified in the 2003 Monroe County Residential Canal Inventory & Assessment GIS Database. The surveys are being performed using automated hydrographic survey equipment consisting of a dual frequency echo sounder used in conjunction with a GPS positioning system to survey a profile of each canal centerline with bottom surface elevations of the canal, relative to the North American Vertical Datum of 1988 (NAVD88), determined at approximate 50' intervals and at the end and mouths of the canals. An elevation is being collected of the natural sea bottom at the canal mouth. The collected survey data is being referenced to the North American Datum of 1983 (NAD83) to allow for inclusion into the existing GIS.

As part of this effort AMEC is obtaining, through the use of the automated hydrographic survey equipment and traditional probing methodologies, sufficient data to provide approximate information regarding unconsolidated material thickness within the canals. The collected bathymetric survey data is being processed to develop attribute data to be added to the existing GIS. All surveying and mapping services associated with this assignment conform with applicable sections of Florida Administrative Rule Chapter 5J-17, Minimum Technical Standards, pursuant to Chapter 472, Florida Statutes.

Ten sediment samples from ten different canals are being collected and submitted for physical and chemical characterization to assist in refining the design for removal and disposal of the material from the canal bottoms. The physical testing is being performed at AMEC's Geotechnical Lab and will consist of the following: Moisture/Solids Content; 200 Mesh Sieve Distribution; Organic Content; Specific Gravity; Grain size distribution; and Settling rate. The chemical characterization to determine disposal options is being performed by Test America Analytical Laboratories, a State National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory. The parameters being tested include: Organochlorine Pesticides and PCBs; Chlorinated Herbicides; 8 RCRA Metals; Copper; Polynuclear Aromatic Hydrocarbons; Total Recoverable Petroleum Hydrocarbons; and TCLP metals.

The bathymetry and sediment characterization data will be utilized in evaluating the need for canal restoration and in the selection and final design of restoration technologies for the residential canals.

The survey covers the entire Keys and is estimated to include 111 miles of canals. The project is funded through a grant from the Department of Environmental Protection (DEP).

Client
- Monroe County

Rhonda Haag
Sustainability Program Manager
102050 Overseas Highway
Suite 212
Key Largo, Florida
USA 33037
305.453.8774 (p)

Location
- Monroe County, Florida

Key Staff
- Wendy Blondin, PG
- Stephen Hanks, PE, LEED AP, CFM
- Mark Follis, PLS
- Max Ramos, PLS

Project Cost
- $100,000

Start Date
- 2013

Completion Date
- Ongoing

Village of Isalmorada Canal Restoration Design and Permitting

Scope

Islamorada, The Village of Islands (Village) has joined in the county-wide Canal Restoration Demonstration Program by committing $100,000 to demonstration canal restorations. The first step in implementing a demonstration project was to objectively and scientifically select canals for water quality improvements. AMEC was contracted by the Village to assist in the selection process. AMEC implemented a ranking process approved by the Water Quality Protection Program Canal Restoration Advisory Subcommittee that paralleled the process utilized by Unincorporated Monroe County. Out of the 62 residential canals located in the Village, a list of the top ten canals that were the best candidates for a canal demonstration restoration project was identified. A report detailing the selection process was provided to the Village. The number one canal identified for inclusion in the demonstration program was Treasure Harbor Canal #137.

The Treasure Harbor Canal #137 was selected for a weed barrier system along the mouth of the canal to reduce seaweed loading and the upgrade of the existing aeration system within the canal basin to improve water quality parameters such as dissolved oxygen and turbidity.

The next steps required to proceed with implementation of the construction of the canal restoration at Treasure Harbor was to complete the design, obtain necessary permits, and obtain homeowner approvals. Below outlines the scope of services that AMEC provided to the Village to complete the project:

Design which included the following:

- Review of bathymetric survey data to finalize air curtain design
- Review of VERTEX aerator and air curtain design packages
- Preparation of an Erosion and Sediment Control Plan
- Preparation of an existing plan and proposed plan incorporating VERTEX designs.

Environmental Permits preparation and submittal which included the following:

- South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP)
- US Corp of Engineers (USACE) Dredge and Fill 404 permit
- Florida Keys National Marine Sanctuary Permit.

Assistance with Homeowner Approval Coordination which included the following:

- Preparation of homeowner approval letters for project
- Preparation of homeowner meetings to discuss project
- Responding to comments from homeowners on project

Additionally, AMEC will provide engineering inspection services during the construction to ensure compliance with permitting design drawings and requirements.

Client

- Village of Islamorada

Susan Sprunt
Environmental Planner
86800 Overseas Highway,
Islamorada, Florida
USA 33036
305.664.6427 (p)
305.664.6467 (f)

Location

- Islamorada, Florida

Key Staff

- Wendy Blondin, PG
- Stephen Hanks, PE, LEED AP
- Jeremy Paris, PWS
- R. Michael Jones, PLS, CFedS
- Gregory Corning, EI

Project Cost

- Engineering: $57,900
- Construction: $17,900

Start Date

- April 2014

Completion Date

- Ongoing

Culvert Design and Permitting and Sediment Testing on Monroe County Demonstration Canals

Scope

AMEC was awarded a scope of work by Monroe County funded by a Florida Department of Environmental Protection grant to perform multiple tasks related to moving several canals closer to implementation of demonstration canal water quality improvement restorations. Many of the canals in the Florida Keys National Marine Sanctuary (FKNMS) do not meet the State's minimum water quality criteria for dissolved oxygen and contain accumulations of organic debris from the deposition of weed wrack trapped in the dead ends of the canals. This scope of this project is a priority of the FKNMS Water Quality Protection Program Steering Committee.

This scope consists of preparation of the design and permit package for installation of a culvert at the third ranked Monroe County demonstration project ranking list for a culvert connection between canal No. 470 and No. 472 in Geiger Key, Florida. The objectives of the project are to: (1) complete preliminary, final and corrected final design plans; (2) complete hydraulic modeling of the system; (3) prepare permit packages for state, federal, and local permit applications at the completion of final design plans; and (4) complete construction technical specifications and engineer's probable construction cost estimate.

The scope also includes obtaining bathymetric and topographic data for the affected canal area and surrounding structures within the project boundary. The bathymetric survey was carried out utilizing a survey-grade GPS unit operating in Real Time Kinematic (RTK) mode mounted atop an adjustable height rod. The topographic data were acquired for the road, existing utilities, private property, and other significant structure within the project boundary.

AMEC also conducted a determination of the boundaries of jurisdictional waters of the U.S., including wetlands, on the subject site as required for permitting. Delineation included

on-site determination, marking in the field with a handheld GPS unit (sub-meter accuracy), and flagging of the aerial extent of each wetland. In conjunction with the wetland delineation, AMEC scientists conducted a threatened and endangered species survey as required by the Environmental Resource Permit (ERP) for the proposed action. An AMEC scientist permitted by the FKNMS conducted an in-water survey of the benthos for the purpose of identifying the presence any sensitive aquatic resources (i.e. seagrasses, corals, or sponges) within the immediate area of the proposed project. AMEC provided the findings of the above referenced biological surveys in a project narrative (biological write-up) for submittal with the permit application.

The scope also includes detailed sediment characterization testing which is needed to prepare final engineering designs for organic removal in the two canals (Big Pine Key #266 and #290) selected for funding of this restoration method in the unincorporated Monroe County demonstration projects. Nine sediment cores were collected via a barge operated core sampler and submitted for laboratory testing of physical and chemical parameters. Cores were logged for evaluation of variations in organic content that will influence the need to remove the material. The scope also includes bench scale polymer dosing testing to assist with the dewatering design.

Client
- Monroe County

Rhonda Haag
Sustainability Program Manager
102050 Overseas Highway
Suite 212
Key Largo, Florida
USA 33037
305.453.8774 (p)

Location
- Geiger and Big Pine Keys, Florida

Key Staff
- Wendy Blondin, PG
- Greg Corning, EIT
- Charlene Stroehlen, PE
- Stephen Hanks, PE, LEED AP
- Jeremy Paris, PWS
- Tim Jaskiewicz
- William Tucker, PhD

Project Cost
- Engineering: $100,000

Start Date
- 2013

Completion Date
- Ongoing

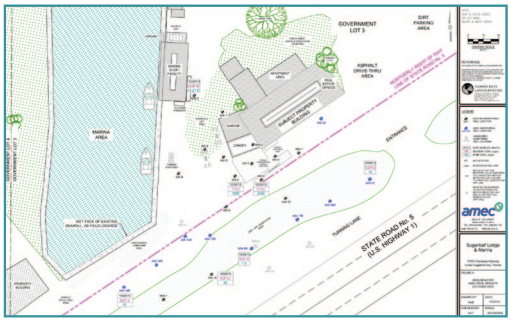
Sugarloaf Key Soil and Groundwater Assessments

Scope

AMEC completed soil and groundwater assessment activities at the site in October 2009. Following the completion of site assessment activities at the site, it was determined that Natural Attenuation Monitoring (NAM) was the most cost effective path to closure for the site. Following the first year of Natural Attenuation Monitoring, a plume stability analysis was completed to determine whether conditional closure could be pursued. The plume stability analysis was completed using Monitoring and Remediation Optimization Systems (MAROS) software, which is capable of evaluating statistical trends in plume mass, centroid of mass, and spread. The findings of the plume stability analysis indicated that both the plume mass and centroid of mass were stable, but that spread of the plume was increasing.

The findings of the plume stability analysis were utilized to estimate the potential extent of the dissolved plume. It was determined that the extent of the dissolved plume was unlikely to leave the FDOT right of way. Therefore, conditional closure using a groundwater use restriction was investigated to see if the FDOT would be willing to implement a groundwater used restriction for the right of way. Due to difficulty in identifying the appropriate FDOT personnel to discuss the option for conditional closure with, and the extensive parcels associated with FDOT right of ways; conditional closure using existing municipal ordinances was investigated pursuant to the November 2013 FDEP memo.

The investigation identified that Monroe County restricts the potable use of groundwater from aquifers that exceed the EPA Maximum Contaminant Levels (MCL). An investigation into the sodium concentration at the site indicates that the aquifer is non-potable. Currently, AMEC is pursuing conditional closure for the site using a risk assessment to determine whether non-potable use of the groundwater at the site presents a potential health risk. It is proposed that the findings of the risk assessment and the municipal restriction for use of non-potable groundwater will be used to achieve site closure.



Client
- Sugarloaf Lodge and Marina

John Good
Owner
17001 Overseas Highway
Sugarloaf Key, Florida
USA 33042
305.745.3211 (p)

Location
- Sugarloaf Key, Florida

Key Staff
- Stephen Hanks, PE, LEED AP
- Paul Thornbury
- Matthew Corcoran
- Mark Kearns
- Marcelo Pichardo

Project Cost
- $110,000

Start Date
- October 2009

Completion Date
- Ongoing

Red Top Sedan

Scope

The Site is a 20 acre property utilized for the storage and maintenance of airport shuttle buses, located at 4300 N.W. 14th Street. The facility is located south of the Miami International Airport (MIA) and has been used as a shuttle bus maintenance facility. The Former Red Top Sedan consists of three main buildings, building 3150 used for offices, building 3151 used as the maintenance shop, and building 3153 used as the wash bay. This SAR was completed for one of the five areas; Area 1- east of building 3150, which includes five (5) underground storage tanks (USTs); two (2) 8,000 gallon diesel USTs, two (2) 6,000 gallon diesel USTs, and one (1) 4,000 gallon diesel UST.

The source of contamination has been attributed to overfill of the USTs, leaking waste oil USTs, the former hydraulic lift system, the oil/water separator, and the drainage system. The poorly functioning drainage system spread product and contaminants throughout areas away from the USTs to the east and west. Several site assessment reports were prepared after the tank removal and remediation system was installed and several million gallons of petroleum impacted groundwater was treated through 2000.

AMEC supervised the installation of 22 soil borings (34 soil samples) and eight monitoring wells at the subject property on December 2010. Prior to the installation of the soil borings and wells, a Ground Penetrating Radar (GPR) survey was performed to locate the underground utilities in the proposed assessment areas due to several unknown lines present at the site. Also, AMECs 25 years of experience conducting site assessment in the South Region, knowledge of the site lithology, hydrogeology, and FDEP cleanup regulations ensured that the soil and groundwater plumes were delineated as quickly and cost effectively as possible. This allowed the site to be moved to the active remediation phase expeditiously to protect human health and the environment.

Contaminated soil was removed from two areas containing approximately 6,000 square feet. A total of approximately 1,550 tons of soil was removed and transported to an approved class I landfill. During the excavation free floating product (FFP) was observed on the water table and vacuum removal was performed. A total of 3,750 gallons of liquid was vacuumed and disposed off-site to a recycling facility. Confirmatory soil sampling was performed to verify whether the goals of the source removal were achieved. The excavation pits were backfilled and restored to the original conditions.

This project was completed on time and within budget and without any site safety incidents.

Client
- Miami-Dade County Aviation Department

Rod Buenconsejo
Project Manager
4200 NW 36th Street
Miami, Florida
USA 33166
305.876.0268 (p)
305.876.0239 (f)

Location
- Miami, Florida

Key Staff
- Ricardo Fraxedas, PE
- Wendy Blondin, PG
- Jonathan Bulley, PE

Project Cost
- $309,000

Start Date
- 2007

Completion Date
- 2012

Chevron Texaco Environmental Services at Various Sites Throughout the Caribbean

Scope

Grand Cayman Island Groundwater Sampling and Site Remediation

Environmental services for site remediation involving recovery of free-phase petroleum product by both active (drawdown) and passive (in-well skimming) techniques and treatment of pumped groundwater. Site includes three office buildings and 16 large, bulk storage tanks on approximately 5 acres. Developed and operated multiple free-product recovery systems in bulk storage terminal facility. Remedial action design reused existing, client-owned remedial equipment, reducing installation costs. Product recovery enhanced by active water table depression along with passive free product skimming in independent wells implemented to address free-floating petroleum product plume. Approximately 6,000 gallons of free product have been recovered. (Cost: $521,180)

Chevron Corporation Tutu, St. Thomas Site Remediation

Site remediation involving removal and destruction of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques and treatment of extracted vapors by catalytic oxidation at a half-acre retail building site. Performed TPDES permitting and monthly well gauging and reporting, quarterly groundwater sampling/reporting; and site closure negotiations with EPA and local regulators. (Cost: $140,000)

Chevron Caribbean, Savanna la Mar Site, Jamaica Site Remediation

Site remediation included the recovery of approximately 10,000 gallons of free product at a service station in Jamaica. Involved the design, installation, optimization, operation, and maintenance of automated free product recovery systems. The use of the automated free product recovery systems resulted in cost savings by reducing field events from biweekly to monthly events. Performed monthly well gauging and quarterly reporting; and site closure negotiations with local regulators. (Cost: $450,000)

Chevron Caribbean, Harbor Masters Marina, Jamaica Site Remediation

Site investigation and remediation including soil and groundwater sampling, remedial approach development and implementation at a marina contaminated with petroleum hydrocarbons. Services included site characterization, source removal through a limited excavation and free product recovery utilizing active and passive product recovery systems until there was no recoverable product available. Conducted liquid level gauging and groundwater monitoring quarterly and then semiannually until dissolved

Client
- Chevron Texaco

Gary Meyer, PG
Geologist
1400 Smith Street, 47034
Houston, Texas
USA 77002
305.439.6801 (p)

Location
- Various locations in the Caribbean

Key Staff
- Ricardo Fraxedas, PE
- Paul Thornbury
- Jonathan Bulley, PE
- Stephen Hanks, PE, CFM, LEED AP
- Matthew Corcoran

Project Cost
- Varies per project

Start Date
- 2005

Completion Date
- Ongoing

petroleum hydrocarbon concentrations met agency criteria. Negotiated with the National Environment and Planning Agency of Jamaica to obtain no further action status for site. (Cost: $250,000)

Chevron Caribbean, Polyberg, St. Thomas Remediation

Environmental services included site characterization, remedial approach development and implementation at a service station in St. Thomas, United States Virgin Islands (USVI) contaminated with petroleum hydrocarbons. Involved site characterization and RBCA analysis to develop site specific action levels, evaluate risk to humans and the environment and negotiations with the Department of Planning and Natural Resources (DPNR) for site closure. Service provided also included the design, installation, optimization, operation and maintenance of soil and groundwater remediation systems that included a soil vapor extraction and air sparge systems. Conducted quarterly groundwater monitoring and reporting and interactions with the DPNR. (Cost: $400,000)

Chevron Corporation, Los Pinos, Nicaragua Remediation

Designed, installed, performed operations and maintenance (O&M), and trained local subcontractors on system O&M and optimization at a retail service station facility, including reuse of a Chevron-owned CatOx system that was previously successfully used in Grand Cayman. This remedial system included soil vapor extraction (SVE) and system off-gas treatment with catalytic oxidation. Also assisted Chevron in the preliminary design and installation of an interim remedial system on another retail service station in Nicaragua, and has directed the shipment of Chevron-owned water treatment equipment to Nicaragua from St. Thomas, for probable use at this site. Negotiated with an inter-agency commission and the local environmental government agency (MARENA), which included education of regulatory personnel to concepts such as site remediation, risk-based corrective action, conditional closure, to maintain compliance with applicable standards for human health and the environment in Nicaragua. Development of working relationships with MARENA and the commission staff to improve CVX's standing

with the government and the public and to minimize CVX's exposure to potential lawsuits. (Cost: $350,000)

Chevron Corporation, Masaya Nicaragua Remediation

Performed environmental engineering services including soil and groundwater assessment required by the state environmental agency in the vicinity of a former UST; prepared a RAP to address petroleum hydrocarbon impact; installed a soil and groundwater remediation system including air sparge and soil vapor extraction wells; operation and maintenance of the remediation system for two years; performed quarterly groundwater monitoring and reporting to document the site cleanup progress. (Cost: $250,000)

Gateway K-8 Learning Center

Scope

The Gateway environmental school construction site had several challenges that required AMEC's comprehensive environmental consulting capabilities in order complete the successful construction of the K-8 school facility. AMEC performed an initial property evaluation to assist the Miami Dade County Public Schools with estimating the scope and costs to address identified issues on the property to allow construction of a K-8 school. The site issues included solid waste from a former Construction and Demolition Debris landfill operation, contaminated soil and groundwater, jurisdictional wetlands, methane issues, and unsuitable soils for construction. AMEC performed all regulatory assessment tasks for soil, groundwater and air including a methane survey. AMEC completed a Risk Assessment to derive Alternate Groundwater Cleanup Levels to allow an on-site irrigation well to be utilized, saving thousands of dollars in water usage.

AMEC provided geotechnical consultation as well as field oversight for the demucking and backfilling with suitable soils on a portion of the property to allow for the school construction. This scope lasted over 8 months and included the visual segregation of solid waste from muck and verification of proper disposal at a Class I landfill. AMEC performed quantify verifications of all materials and provided documentation to satisfy regulatory requirements and authorize contractor payments. AMEC performed all School Board required Material Testing during school construction including fill, concrete, and compaction densities.

A portion of the property was not demucked and regulatory requirements mandated a methane assessment and evaluation of remedial alternatives to address the observed elevated methane levels. A Methane Abatement Trench consisting of a slurry wall located near the school buildings and a passive methane collection trench located in the native muck area (the source of the methane) were designed

Client
- Miami-Dade County Public Schools

Mike Krtausch
Executive Director, Project Operations and Regulatory Compliance
12525 NW 28th Avenue
Miami, Florida
USA 333167
305.995.4451 (p)
305.995.4060 (f)

Location
- Homestead, Florida

Key Staff
- Ricardo Fraxedas, PE
- Wendy Blondin, PG
- Jeremy Paris, PWS

Project Cost
- $960,000

Start Date
- 2006

Completion Date
- Ongoing

and installed by AMEC. Additionally, an interior building air quality assessment was performed, and although no methane levels were detected, an Interior Building Methane Detector Alarm System was designed and installed by AMEC as a preventative measure to ensure that the methane generated in the non-demucked area did not impact the school buildings AMEC also designed a program and provided instruction to the personnel on response to a methane warning alarm in the unlikely event that unsafe methane levels should be detected by the methane monitoring system. AMEC's services included continued methane monitoring in open field areas and monitoring of the passive methane abatement system to confirm that the system operates as designed.

AMEC designed an on-site wetland mitigation area to meet USACE Dredge and Fill permit requirements. AMEC provided engineering oversight of the earth work construction and plantings as well as implemented the permit required five-year maintenance and monitoring of the wetlands to prevent invasive plant encroachment and ensure native plant coverage. AMEC assisted the School Board in integrating the wetlands into the school's science program by providing technical information and designing and constructing an Educational Overlook.

AMEC also developed alternative groundwater cleanup target levels (AGCTLs) for the on-site irrigation well based on a site-specific human health risk assessment in accordance with Miami-Dade County DERM Risk-Based Corrective Action Guidance No. 6 (DERM, 2002b). With DERM's approval, the AGCTLs were used to evaluate whether observed levels of contaminants in the irrigation well posed a risk requiring additional corrective action. The risk assessment determined that no corrective actions were required which allowed the school to use the water from the irrigation well, savings hundreds of dollars in annual water use fees.

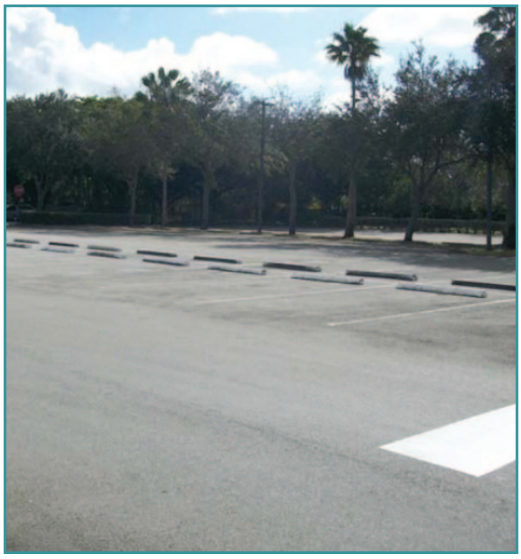
AMEC's environmental assessments and designs allowed the on time completion of the school and provided for the safe operation of the school building. A conditional closure is currently being pursued for the property which requires one year of groundwater monitoring to document the groundwater plume stability.

Bank of America proposed Chick-Fil-A site

Scope

AMEC performed supplemental environmental site assessments at the 20,000 square-feet parking lot for Bank of America. Petroleum hydrocarbon discharges were discovered during due diligence activities for a potential real estate transaction. The Phase II investigation identified Benzo(a)pyrene (BaP) in soil, and benzene and xylenes in groundwater at levels exceeding the regulatory limits. AMEC submitted the discharge notification to Broward County and performed additional soil and groundwater assessments. Shallow and intermediate depth direct push Geoprobe monitoring wells were installed for groundwater delineation. The BaP soil distribution varies by depth and location. In some cases, sample results exceeding SCTLs are isolated and not contiguous to other SCTL-exceeding samples. A possible BaP source was the fill material used to bring the site to grade. Based on random nature and magnitude of BaP in soil and the unknown source, AMEC was able to get the agency approval for no further action for BaPs in soil.

The source area for groundwater contamination was determined after additional site assessments and AMEC performed interim soil source removal. The scope of work included well abandonment, soil removal, backfilling, site restoration and monitoring, well replacement, and groundwater sampling. Significant decrease in the petroleum groundwater concentrations was noted and Broward County approved the source removal report and two quarters of groundwater monitoring for no further action closure.



Client
- Bank of America

Galina Chadwick
SVP, Environmental Manager
1020 N French Street
Wilmington, Delaware
USA 19884
302.432.3672 (p)

Location
- Fort Lauderdale, Florida

Key Staff
- Ashok Aitharaju, EI
- Rick Fraxedas, PE
- Matthew Corcoran
- Jose Milian

Project Cost
- $90,000

Start Date
- 2012

Completion Date
- 2014

Banana River Shoreline Stabilization at Patrick Air Force Base

Scope

The Banana River Shoreline Stabilization is an on-going marine construction project being completed for the U.S. Air Force 45SW at Patrick AFB. The project consists of repairing docks, piers, and seawall bulkhead structures that were damaged during Hurricane Wilma in October 2005, and stabilizing eroded sections of the western shoreline of Patrick AFB along the Banana River lagoon to prevent further landward encroachment of the lagoon. The project is being completed in three separate phases that consist of the following.

Seawall Repair

AMEC is responsible for repairing sections of the seawall where hurricane wave activity resulted in the loss of soil through the existing seawall sheet pile and undermining of the ground surface landward of the seawall. The seawall repair will consist of the installation of a new sheet pile and concrete cap in front of the existing seawall structure. The repair effort consists of coordinating the repair design with the SJRWMD and USACE to obtain regulatory approval, bid document preparation, solicitation of bids and vendor selection, oversight of the repair construction to confirm compliance with the approved design, and preparation and submission of the project closeout documentation, including as-built drawings and an O&M manual.

Docks Repair

This phase consists of repairing docks and piers located on the Banana River shoreline along the seawall through uplifting of dock pilings and planks. The site sustained damage during Hurricane Wilma. The effort consists of releveling docks and piers by resetting the existing pilings, and replacement of damaged pilings, deck support structures, and deck planks. AMEC is responsible for obtaining a letter of consent for the docks repair from SJRWMD and obtaining USACE approval for the proposed repairs. AMEC is also responsible for vendor solicitation and selection, and overseeing

the repair construction activities. Responsibilities also include preparation and submission of as-built drawings upon completion and acceptance of the repair. To date, repair activities have been completed for three of the four docks that were damaged, including docks 600, 602 and 603.

Shoreline Stabilization

Four sections of the Banana River lagoon shoreline were severely eroded during Hurricane Wilma, requiring the construction of stabilization features to prevent further landward encroachment of the lagoon. The four sections include the North Housing, the Fuels Area the Rescue Road, and the Instrument Landing System (ILS) Glideslope shorelines. The stabilization design consists of the construction of a rip rap revetment along the North Housing and Rescue Road shorelines and installation of gabion basket wall structures along the Fuels Area and ILS Glideslope shorelines. AMEC is responsible for obtaining the necessary environmental resource permit (ERP) from SJRWMD and approval from USACE through preparation of the permit application and submission of the application with 100 percent design drawings. AMEC is responsible for bid package preparation, vendor solicitation, and contract award. AMEC is also responsible for overseeing the repair construction efforts as well as preparation and submission of the project closeout documentation, including as-built drawings and operations and maintenance manuals.

Client
- Air Force Civil Engineer Center

Gregory Keefe
Program Manager
1224 Jupiter Street
Patrick AFB, Florida
USA, 32925-3343
321.494.1110 (p)

Location
- Patrick Air Force Base, Florida

Key Staff
- Dave Ott, PE
- John McGann

Project Cost
- $4.88 million

Start Date
- 2006

Completion Date
- Ongoing

Indoor Air Quality and Environmental Facilities Consulting

Scope

James A. Haley Medical Center
Provided comprehensive rapid response asbestos services for an occupied medical facility in support of new construction and major renovation efforts.

Miami Airport Hilton
AMEC performed a mold damage assessment throughout the hotel and provided a mold remediation plan to be implemented during renovations.

University of West Florida Emergency Asbestos and Hazardous Material Surveys
Provided emergency asbestos and hazardous material surveys, specifications, project monitoring, and Phase I ESAs at six occupied education facilities. Provided asbestos and hazardous material public relations training as well as regulatory coordination and review.

Major Orlando Theme Park
As part of an ongoing consulting contract, performed inspections and developed a remediation plan to remove significant moisture damaged drywall. Performed oversight during the removal and disposal procedures.

Florida Community College of Jacksonville
Since 1988, AMEC has served as FCCJ's environmental consultant for all facility locations and has performed various services for FCCJ on more than fifty projects. AMEC has performed asbestos surveys, indoor air quality assessments, noise/vibration monitoring, hazardous material surveys, carbon dioxide testing, formaldehyde testing, and asbestos monitoring. Asbestos project scopes have included asbestos surveys including visual observation, material sampling, and laboratory analysis of suspect asbestos-containing materials. AMEC is responsible for the material sampling procedures, analysis of results, and provides material assessments

and recommendations for managing the asbestos-containing materials. The purpose of the surveys is to test suspect building materials for the presence of asbestos-containing materials. Surveys are performed in general compliance with OSHA survey guidelines.

University of South Florida Sun Dome
Provided EPA/NESHAP asbestos and hazardous/regulated building materials survey. Emergency response services addressed and provided contamination assessment and monitoring of removal of rubberized flooring material, air monitoring and RCRA sampling, 24/7 monitoring, possible renovation-based exposure public relations concerns.

Hilton Hotel at Walt Disney World
Performed inspections and developed remediation scope for removal and disposal of damaged drywall in multiple conference rooms at the Hilton Hotel. AMEC provided on-site testing during the removal and disposal process.

Client
- Various Clients

Location
- Various Locations, Florida

Key Staff
- Russell Stauffer, PE, MRSA

Project Cost
- Varies per project

Start Date
- 1988

Completion Date
- Ongoing

Paint Coating Assessments

Scope

AMEC has provided other "Prime" FDOT consultants the subconsultant coatings assessments and testing for asbestos and lead-based paints on more than 40 projects since 2005. These have included more than 15 projects in Pinellas County. The services have involved the on-site testing and assessments of the coatings in accordance with various FDOT and ASTM standards, for adhesion and cohesion, in addition to testing for chloride, lead, cadmium, and chromium content of the coatings. Results are evaluated and recommendations are made as to the rehabilitation and or/replacement of the coatings. We have also performed, in accordance with EPA and OSHA regulations, testing for asbestos and lead-based paint, including recommendations for removal, as warranted.

Clients include:

- EC Driver
- TYlin
- Parsons Brinkerhoff
- PB Americas
- Dragados
- Carter & Burgess
- Florida Department of Transportation

Client
- Various Clients

Location
- Pinellas, Hillsborough, Manatee, Orange, Collier, Broward, Sarasota, Lee, Duval, and Okeechobee Counties

Key Staff
- Russell Stauffer, PE, FLAC, MRSA, LEED AP
- Carol L. Thoma, MPH, MRSA
- Kevin Schweikhart, NACE, SSPC
- Andrew Provost, CWI
- Dean Fao
- Peter MacKay

Project Cost
- Cost varies per project

Start Date
- 2005

Completion Date
- Ongoing

Section 4
Proposed Management Approach

Project Management

AMEC's project management procedure and strategy for each component of a project is designed to maximize the efficient execution of each task and to ensure City of Key West's satisfaction. Our management process is proven to be one of the most efficient for controlling numerous activities in a timely and cost effective manner. These processes are tailored to meet the individual needs of each of our clients.

We believe that it is critical that the project management philosophy be focused on the effective coordination and combination of the project elements and services required to successfully complete the project. A practical understanding of both the potential technical and non-technical aspects of the City of Key West's Environmental Engineering Services contract is essential to the efficient execution of each individual task order. In summary, the key elements of our project management plan are:

- Effective client interface and communication
- Assignment of a senior project manager and experienced key personnel
- Preparation of a comprehensive technical approach based on a sound understanding of the potential projects
- Development of a fair and complete budget to accomplish the work
- Use of proven, computerized systems for monitoring and control of project cost and schedule
- Commitment to the schedule and budget from all team members
- Frequent team interaction on project tasks, deliverables, and challenges
- Continuity of staff on project tasks and development of "project teams"

Project team meetings are held on a regular basis, providing an opportunity to share project information and identify potential problems and head them off before they become schedule stoppers. Project schedules and milestone dates are reviewed at each team meeting. We often use emails to send electronic drawings and data which helps reduce schedule snags since data is more easily available and ready for use. We set weekly goals for our project team based on our work plan and hold team members accountable

for attaining those goals within the allotted hours. Project efficiency will be maximized by submitting regular project status reports, meeting as needed with City staff to facilitate communication during the course of a project, and limiting the number of team members working on a project. This allows us to meet the project schedule, but at the same time, minimize unnecessary confusion regarding responsibilities and methodologies.

Additionally, continuous senior level review is essential to meeting project goals and objectives within allocated schedules and budgets. Our specific goal is to identify and correct potential issues during the process to avoid costly and time consuming backtracking in subsequent elements of the work plan.

Quality Assurance & Quality Control

AMEC's QA/QC process is a comprehensive tool that establishes protocols and procedures for activities at AMEC regardless of project size. The aforementioned protocols and procedures include the following key components:

- Budget & Schedule Tracking
- Project Documentation
- Document Development & Review
- Communication Protocol
- Invoicing
- Plan Preparation Standards

AMEC believes in the value of Quality Assurance (QA) and Quality Control (QC) measures and has and will develop a QA/QC plan specific for use in our projects. Principal Professionals are assigned for each project and/or subtask and are responsible for directing, reviewing, and approving services that require surveying, engineering or scientific evaluation, interpretation, or professional judgment. It is AMEC's policy that the size of the project does

not determine our approach to quality assurance. The project team will follow a rigorous protocol that requires QA/QC reviews at critical steps throughout the project process. Qualified staff will be utilized for review and comment on all project deliverables before progressing to the next defined phase of work. We have found that continuous senior level review is essential to meeting project goals and objectives within allocated schedules and budgets. Our specific goal is to identify and correct potential issues during the process to avoid costly and time consuming backtracking in subsequent elements of the work plan. For similar reasons, we believe in maintaining staff consistency throughout our projects. Assuring and controlling the quality of our work is a never ending process. A comprehensive QA/QC plan is necessary to minimize errors and omissions and to increase efficiency and effectiveness. AMEC's technical review procedure is part of our Quality Control Chain of the Quality Management Program (QMP). The QMP requires that a Project Execution Plan (PEP) be completed for all projects with Gross Revenue greater than $250,000. The PEP is a document or collection of documents that sets out specific processes or activities necessary to meet contractual requirements for a program or project. PEPs are scaled to fit the project type and size.

Budget and schedule are only part of the equation, work quality is essential. AMEC recognizes our staff dedication and professional pride that our project team members possess as an integral component in a project's success. Our project team is focused on maintaining a common sense approach throughout our projects and avoiding over-complication and over-engineering. Basically, our experience with similar projects and services allows us to know what to expect, what to do, and how to do it.

Generally, QA/QC steps are interlaced within each step of the project. QC review of actual work products will be performed continuously throughout the project. QA activities include a planned system of review procedures conducted by personnel not directly involved in the project, to produce and evaluate data in accordance with predefined quality objectives. Quality control is a system of routine administrative and technical activities to measure, manage and control the work product to ensure integrity of data, identify and address errors and omissions, to document and archive data, and to record all QA/QC activities. The QA/QC reviewers document their review of work products and any recommendations to support staff, task leader(s) or client through memorandum or notes to the file.

AMEC is committed to providing the necessary resources, both technical and managerial, to assure that the City of Key West's environmental and coastal engineering needs are met in not only an expeditious manner but with a level of quality deserving of a client as revered as the City itself.

Combined with AMEC's unique understanding of the City of Key West's infrastructure and surrounding sensitive ecosystems, our philosophy of solving problems using sound engineering and science geared towards increasing sustainability will ensure that no harm is done to the historic nature of the City while preserving its pristine environment for years to come.

Availability

AMEC understands that the City of Key West desires to hire an engineering and consulting firm that can start immediately following the awarding of this Environmental Engineering Services contract. Starting on day one, AMEC's familiarity and working relationship with the City of Key West and the stake holders throughout the Florida Keys will allow for the winning AMEC team to quickly address and develop quality solutions that can be implemented without a prolonged regulatory review process. AMEC's long-term presence within the City of Key West and the greater Florida Keys ensures that throughout the duration of the award period, the City of Key West's Environmental Engineering Services contract will be of upmost importance to our company and its employees. AMEC's team is prepared to address any environmental emergency that may fall upon the City while at the same time being able to work with city officials in developing strategies that will prevent such events from ever occurring. Of any firm submitting qualifications for this contract, the AMEC team has the best ability to meet the City of Key West's anticipated schedule for project delivery due to the following:

- We have firsthand knowledge of many of the issues currently facing the City of West as it deals with the demands of future development while at same time preserving its historic status as a landmark for Florida Keys culture and its abundant natural resources
- We do not need time to get up to speed and become familiar with the regulatory agencies, applicable environmental laws and regulation, and building codes within the City of Key West
- We have expertise in addressing many of the environmental challenges currently facing the City of Key West

Section 5
Location and Availability

Location

AMEC Environment & Infrastructure, Inc., is an architecture and engineering design, environmental consulting, and construction company operating with more than 4,200 professionals in 110 locations across the United States. In Florida, AMEC has 500 employees in 14 offices, including more than 100 in the South Florida region. The AMEC team brings specialized Florida knowledge and experience to our clients with aided service delivery driven by our expansive financial, project management, and IT systems. Utilizing these combined services allows us to draw on vast resources of personnel and experience to meet our clients' needs.

The City of Key West project will be managed and serviced from our Miami Lakes office with additional support from our West Palm Beach, Cocoa Beach, and Orlando offices. While we have team members in multiple offices, our project managers and highly qualified professionals form seamless and flexible project teams that provide uninterrupted continuity to project tasks. We have a proven working history with a high success rate of coordinating and executing high-value engineering and architectural projects throughout the state. The close proximity of our offices will enable the AMEC team to rapidly respond to all project needs in a timely and cost-efficient manner.

AMEC has been serving the City of Key West and Monroe County for more than a decade and is familiar with all aspects of permitting and regulations for projects in the Keys. Additionally, AMEC is teaming with Terramar, who will provide as-needed coastal engineering and permitting services. Located on Sugarloaf Key, Terramar provides a wide range of environmental services with years of experience within the Keys.

Workload

Our project managers and highly qualified professionals form seamless and flexible project teams that provide uninterrupted continuity to project tasks. We have a proven working history with a high success rate of coordinating and executing high-value engineering and design projects throughout the state.

The AMEC team has ample capacity, at any given time, to support the City of Key West with this contract. The staff members proposed for this assignment will be available daily to provide the services indicated, and individual staff members' hours can and will be adjusted as dictated by project needs and in accordance with the project work plan and schedule. We understand that the nature of this contract may not be one of uniform workload, but rather of varying labor requirements, and the AMEC team commits to the City that it will provide sufficient staff resources to handle even peak workload demands. Our team has the resources available to expedite schedule at any time if needed and all are equally committed to client satisfaction and to outstanding technical performance on each and every task assignment.

The AMEC team's primary goal is to provide a strong and diverse staff with the interdisciplinary skills and depth of experience necessary to produce all the required tasks on time and within budget, while achieving a quality product.

We are confident that our team's ability to handle the scope of services required under this RFQ is not affected by our existing workload, which does not include any substantial long-term project commitments for any of our team members. We feel that the project management methods discussed in the previous section would facilitate the efficient implementation of this contract.

Ability to Provide Services

Our daily ability to handle the scope of services will be facilitated primarily by continuously tracking staff needs and availability to ensure project commitments are met, and costly staff overloading or under loading is avoided. Our team's project manager, **Mr. Ricardo Fraxedas,** will oversee and coordinate this effort to ensure an effective staff allocation whereby team adjustments will be made as dictated by the project requirements and in accordance with the designated work plan. Equally important will be coordination with City staff.

We are confident that this contract will be an excellent fit for the AMEC team in terms of experience and proficiency as well as the availability of the personnel who are proposed. The professionals who would be utilized for this project are committed to client service and accustomed to providing the individual time and effort necessary to successfully achieve the objectives of our clients. We are looking forward to partnering with you for this contract and are ready to start work immediately.

The AMEC team is fully confident that we will complete the scope of services successfully and to the full satisfaction of the City of Key West.

Section 6
Forms

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF POLK)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: _____

Sworn and subscribed before me this

9 Day of July, 2014.

Kathyria M. Rivera
NOTARY PUBLIC, State of Florida at Large

KATHYRIA N. RIVERA
Notary Public - State of Florida
My Comm. Expires May 1, 2015
Commission # EE 89186

My Commission Expires: 05/01/2015

SWORN STATEMENT UNDER SECTION 287.133(3)(a) FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Bid or Contract No. 14-004 for Environmental Engineering Services

2. This sworn statement is submitted by AMEC Environment & Infrastructure, Inc.
(Name of entity submitting sworn statement)

whose business address is 5845 NW 158th St. Miami Lakes, Florida 33014

and (if applicable) its Federal Employer Identification Number (FEIN) is 91-1641772 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.)

3. My name is Michael Phelps, PE and my relationship to
(Please print name of individual signing)

the entity named above is Office Manager.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(l)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means

    1. A predecessor or successor of a person convicted of a public entity crime: or

    2. An entity under the control of any natural person who is active in the management of t entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural

person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

X Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

___There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

___The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

___The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of Environmental Services.)

Michael D. Phelps

(Signature)

July 9, 2014

(Date)

STATE OF Florida

COUNTY OF Polk

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Michael Phelps, PE who, after first being sworn by me, affixed his/her signature in the

(Name of individual signing)

space provided above on this 9 day of July, 2014.

My commission expires: 05/01/2015 Kathyria M. Rivera

NOTARY PUBLIC

KATHYRIA N. RIVERA
Notary Public - State of Florida
My Comm. Expires May 1, 2015
Commission # EE 89186

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF POLK)

I, the undersigned hereby duly sworn, depose and say that the firm of AMEC Environment & Infrastructure, Inc. provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: _____

Sworn and subscribed before me this

9 Day of July, 2014.

Kathyria M. Rivera
NOTARY PUBLIC, State of Florida at Large

KATHYRIA N. RIVERA
Notary Public - State of Florida
My Comm. Expires May 1, 2015
Commission # EE 89186

My Commission Expires: 05/01/2015

CONE OF SILENCE AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF POLK)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of AMEC Environment & Infrastructure, Inc. have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

Sworn and subscribed before me this

9 Day of July, 2014.

Kathyria N. Rivera
NOTARY PUBLIC, State of Florida at Large

KATHYRIA N. RIVERA
Notary Public - State of Florida
My Comm. Expires May 1, 2015
Commission # EE 89186

My Commission Expires: 05/01/2015

CITY OF KEY WEST
3126 Flagler Avenue
Key West, FL 33040

ADDENDUM NO. 1 – RFQ Environmental Engineering/ ITB 14-004

This addendum is issued as supplemental information to the bid package for clarification of certain matters of both a general and a technical nature. The referenced bid package is hereby addended in accordance with the following items:

RFI Questions Submitted:

1.) Does the bid require that respondents be a licensed PE?

Yes, you should include a Licensed PE on your team.

2.) Can a Prime submit as a sub to another firm? Also, can a sub-contractor submit with more than one firm?

Yes.

3.) Please confirm the attached (46 pages) is the complete PDF for the subject submittal. Page 1 of the PDF states that the document is 47 pages in length. It also states that the "Request for Qualifications" section is 10 pages in length. However, per the attached, the section is 8 pages. I just want to be sure there are no missing pages.

Yes there are 46 pages and there are only 8 pages in the RFQ section.

4.) Under the "Scope of Work" section on page 7 of the RFQ, services from a Resident Project Representative would be required. Would a RPR differ from the Engineer of Record in this instance?

Yes, the RPR is the on-site staff providing daily (or other agreed on frequency) oversight (e.g., inspection)

5.) May firms only submit for one discipline or would a sub-consultant be needed to satisfy all service requirements per submission?

Must submit for all, using a sub-consultant as necessary.

6.) Will there be any page number limitations for any part of the qualification package?

Unless otherwise so stated in the RFQ, no limit

7.) Is there an incumbent? If so, can you provide the company name?

There is not an "incumbent" relative to an Environmental-specific General Services RFQ.

8.) Just to clarify the RFQ instructions, please advise: Put COPY Response and CD-ROM in envelope, seal it, mark it COPY and place inside of Envelope with ORIGINAL Response and CD-ROM, then seal that envelope? One envelope inside of another, correct?

Correct.

9.) Signed certifications are required by prime and subs, or just prime?

Just prime

10.) Please confirm that the required forms (Anti-Kickback Affidavit, Public Entity Crimes Certification, Equal Benefits for Domestic Partners Affidavit, and Cone of Silence Affidavit) are to be completed by the prime consultant only.

Correct.

11.) Are insurance certificates required to be provided at the time qualifications packages are submitted?

Yes

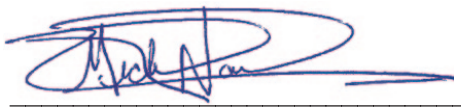
12.) Is a "description of the contractor's employee benefits plan" (page 17 of the RFQ) required to be included with the executed Equal Benefits for Domestic Partners Affidavit?

No

13.) Please confirm that electronic signatures are acceptable as originals.

Electronic signatures are acceptable

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.



AMEC Environment & Infrastructure, Inc.

Signature Name of Business

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY) 04/25/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Aon Risk Services Northeast, Inc.
Morristown NJ Office
44 Whippany Road, Suite 220
Morristown NJ 07960 USA

CONTACT NAME:
PHONE (A/C. No. Ext): (866) 283-7122 **FAX (A/C. No.):** 800-363-0105
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A:	Zurich American Ins Co	16535
INSURER B:	ACE American Insurance Company	22667
INSURER C:	ACE Property & Casualty Insurance Co.	20699
INSURER D:	American Zurich Ins Co	40142
INSURER E:		
INSURER F:		

INSURED
AMEC Environment & Infrastructure, Inc.
1105 Lakewood Pkwy, Suite 300
Alpharetta GA 30009 USA

COVERAGES **CERTIFICATE NUMBER:** 570053569272 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC OTHER:			G24554818	05/01/2014	05/01/2015	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $100,000 $10,000 $1,000,000 $1,000,000 $1,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO X ALL OWNED AUTOS X HIRED AUTOS SCHEDULED AUTOS X NON-OWNED AUTOS			BAP9483148-03	05/01/2014	05/01/2015	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000
C	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $10,000			XOOG27238671	05/01/2014	05/01/2015	EACH OCCURRENCE AGGREGATE	$1,000,000 $1,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		WC350486613	05/01/2014	05/01/2015	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	$1,000,000 $1,000,000 $1,000,000
A	Archit&Eng Prof			EOC938357806 SIR applies per policy terms & conditions	05/01/2014	05/01/2015	Any one Claim/Aggre	$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Evidence of Insurance.

CERTIFICATE HOLDER

AMEC Environment & Infrastructure, Inc.
1105 Lakewood Parkway, Suite 100
Alpharetta GA 30009 USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Northeast, Inc.

Holder Identifier :

Certificate No : 570053569272

ACORD 25 (2014/01) The ACORD name and logo are registered marks of ACORD

AMEC
5845 NW 158th Street
Miami Lakes, Florida 33014
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