

# City of Fort Lauderdale

## Civil/Environmental Engineering Services for Intracoastal Waterway - Las Olas Marina Dredging Project



Date: September 29, 2014

Time: 2:00 pm

Copy

# City of Fort Lauderdale Intracoastal Waterway

## Las Olas Marina Dredging Project

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September 29, 2014

Mr. Ronald Archey  
Fort Lauderdale City Hall  
Division of Procurement Services  
100 N. Andrews Avenue, Room 619  
Fort Lauderdale, FL 33301

**Re: City of Fort Lauderdale Intracoastal Waterway - Las Olas Marina Dredging Project**

Dear Mr. Archey:

AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to submit our qualifications to provide services for the Las Olas Marina Dredging Project for the City of Fort Lauderdale. We are confident that you will find that the AMEC Team provides an exceptional group of experts with extensive Florida dredging, spoil management, and water treatment expertise. Our team is comprised of two highly respected and experienced firms including AMEC and Dredging and Marine Consultants (DMC), a State of Florida MBE firm.

Our team is excited to have the opportunity to play a role and provide a meaningful contribution in the design and permitting services for the City's dredging project. Why select the AMEC team? AMEC is uniquely qualified to provide the City with the needed consultant services. We have unmatched project experience in Florida dredging. Our corporate expertise covers three decades of continuous experience, beginning with the first full lake restoration project ever completed in Florida. Additionally, we have assembled a project team with expertise in all disciplines and services anticipated for this project and who have direct experience with the exact services sought for this project. Our team has experience working together collaboratively on past successful projects.

Our project team will be led by **Mr. Scott Wuitschick, PE**. Mr. Wuitschick has extensive experience in dredging projects including serving in a similar capacity for all of AMEC's recent and ongoing projects including Lake Beauclair and Lake Seminole (Pinellas County). He has provided expert witness testimony in permitting related hearings in the areas of hydrology, hydrologic modeling, permitting, materials management, and construction stormwater control. His expertise also includes directing large-scale permitting efforts. Mr. Wuitschick will be supported by individuals who are recognized experts in their fields who are equally familiar with the issues generally associated with these types of projects.

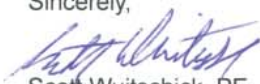
Mr. Wuitschick will be assisted in project management by **Mr. Gary Nemeth**. Mr. Nemeth has extensive past experience with the project and with the City of Fort Lauderdale. Gary's primary role in managing the project will be in project coordination and outreach. Gary's past experience with the project and knowledge of regional stakeholders and conditions will help to ensure that the project is well conceived and that all institutional knowledge of the project is incorporated in AMEC's evaluation and design work.

**Walter Reigner, PE, CPESC** will serve as Principal in Charge of this opportunity. Walt is authorized to negotiate on behalf of the AMEC team. He is a veteran employee of AMEC and has been intimately involved with all of the firm's dredging projects in Florida. Walt will ensure that our corporate resources are properly utilized to successfully complete this project. In summary, Walt will ensure that AMEC:

- Optimizes our services and keep things as simple as possible - providing outstanding value for the City's dollars spent
- Provides exceptional client service - equaling personal attention and frequent communication
- Delivers products on time and within budget
- Is proactive and avoids risk
- Provides a positive and safe work environment on all jobs at all times

We offer the personal commitment and availability of all project team members throughout the duration of this contract and are ready to begin work immediately upon receiving a notice to proceed. We thank you for the opportunity to submit our proposal and invite your detailed review. If you have any questions or require additional information, please contact us at your convenience.

Sincerely,



Scott Wuitschick, PE  
Project Manager  
863.944.0910/Email: scott.wuitschick@amec.com



Walter Reigner, PE, CPESC  
Principal-in-Charge  
863.607.2054/Email: walter.reigner@amec.com

**BID/PROPOSAL SIGNATURE PAGE**

**How to submit bids/proposals:** Proposals must be submitted by hard copy only. It will be the sole responsibility of the Bidder to ensure that the bid reaches the City of Fort Lauderdale, City Hall, Procurement Services Division, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the bid opening date and time listed. Bids/proposals submitted by fax or email will NOT be accepted.

The below signed hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the CITY and such acceptance covers all terms, conditions, and specifications of this bid/proposal.

**Please Note:** All fields below **must** be completed. If the field does not apply to you, please note N/A in that field.

Submitted by: Walter Reigner September 29, 2014  
(signature) (date)

Name (printed) Walter Reigner, PE, CPESC Title: Principal-In-Charge/Vice President

Company: (Legal Registration) AMEC Environment & Infrastructure, Inc.

**CONTRACTOR, IF FOREIGN CORPORATION, MAY BE REQUIRED TO OBTAIN A CERTIFICATE OF AUTHORITY FROM THE DEPARTMENT OF STATE, IN ACCORDANCE WITH FLORIDA STATUTE §607.1501 (visit <http://www.dos.state.fl.us/> ).**

Address: 2000 East Edgewood Drive, Suite 215

City Lakeland State: Florida Zip 33803

Telephone No. 863.667.2345 FAX No. 863.667.2662 Email: walter.reigner@amec.com

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): \_\_\_\_\_

Payment Terms (section 1.04): Net 30 Total Bid Discount (section 1.05): N/A

Does your firm qualify for MBE or WBE status (section 1.09): MBE X \* WBE \_\_\_\_\_  
\* Teaming with MBE - DMC

**ADDENDUM ACKNOWLEDGEMENT** - Proposer acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>
<u>Q/A - 3 questions and answers acknowledged</u>	<u>September 15, 2014</u>

**VARIANCES:** State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. **HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS.** If this section does not apply to your bid, simply mark N/A in the section below.

Variances:  
\_\_\_\_\_  
\_\_\_\_\_



# Section 1 Qualifications of Firm and Project Team

**ARCHITECT / ENGINEER QUALIFICATIONS PART I - CONTRACT SPECIFIC QUALIFICATIONS**

A. Contract Information						
1. Title			Location (City and State)			
City of Fort Lauderdale Intracoastal Waterway – Las Olas Marina Dredging Project			Fort Lauderdale, Florida			
2. Public Notice Date			3. Solicitation or Project Number			
September 2014						
B. Architect / Engineer Point of Contact						
4. Name/Title			5. Name of Firm			
Scott Wuitschick, PE			AMEC Environment & Infrastructure, Inc.			
6. Telephone Number		7. Fax Number		8. E-Mail Address		
863.667.2345		863.667.2662		Scott.wuitschick@amec.com		
C. Proposed Team <small>Complete this section for the prime contractor and all other firms proposed for this contract. If a firm has branch offices, complete this section for the particular branch office(s) proposed for the contract.</small>						
	Check one			9. Firm Name / Business Status	10. Address	11. Role in Contract
	Prime	JV	Sub			
a.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AMEC Environment & Infrastructure, Inc. <small>[X] CHECK IF BRANCH OFFICE</small>	2000 E. Edgewood Drive Suite 215 Lakeland, Florida 33803	<ul style="list-style-type: none"> <li>▪ Project Management</li> <li>▪ QA/QC</li> <li>▪ Geotechnical Evaluation</li> <li>▪ Permitting and Public Education</li> <li>▪ Survey, Sampling &amp; Characterization</li> <li>▪ Dredge Design</li> <li>▪ Support Services</li> </ul>
b.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AMEC Environment & Infrastructure, Inc. <small>[X] CHECK IF BRANCH OFFICE</small>	75 E. Amelia Street Suite 200 Orlando, Florida 32801	<ul style="list-style-type: none"> <li>▪ Permitting and Public Education</li> <li>▪ Survey, Sampling &amp; Characterization</li> </ul>
c.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AMEC Environment & Infrastructure, Inc. <small>[X] CHECK IF BRANCH OFFICE</small>	2580 MetroCentre Blvd. Suite No. 6 West Palm Beach, Florida 33407	<ul style="list-style-type: none"> <li>▪ Geotechnical Evaluation</li> <li>▪ Survey, Sampling &amp; Characterization</li> </ul>
d.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AMEC Environment & Infrastructure, Inc. <small>[X] CHECK IF BRANCH OFFICE</small>	5845 NW 158 <sup>th</sup> Street Miami Lakes, Florida 33014	<ul style="list-style-type: none"> <li>▪ Permitting and Public Education</li> </ul>
e.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AMEC Environment & Infrastructure, Inc. <small>[X] CHECK IF BRANCH OFFICE</small>	404 SW 140 <sup>th</sup> Terrace Newberry, Florida 32669	<ul style="list-style-type: none"> <li>▪ Permitting and Public Education</li> <li>▪ Survey, Sampling &amp; Characterization</li> <li>▪ Dredge Design</li> </ul>
f.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AMEC Environment & Infrastructure, Inc. <small>[X] CHECK IF BRANCH OFFICE</small>	4919 W. Laurel Street Tampa, Florida 33607	<ul style="list-style-type: none"> <li>▪ Permitting and Public Education</li> </ul>
g.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dredging & Marine Consultants, LLC <small>[X] CHECK IF BRANCH OFFICE</small>	4643 S. Clyde Morris Blvd., Unit 302 Port Orange, Florida 32129	<ul style="list-style-type: none"> <li>▪ Permitting and Public Education</li> <li>▪ Survey, Sampling &amp; Characterization</li> </ul>





**E. Resumes of Key Personnel Proposed for this Contract**

12. NAME <b>Scott Wuitschick, PE</b>		13. ROLE IN THIS CONTRACT <b>Project Manager/Permitting/ Public Education</b>	14. YEARS EXPERIENCE <b>22 Total / 8 Current Firm</b>
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Lakeland, Florida</b>		16. EDUCATION (DEGREE AND SPECIALIZATION) <b>M.E. Environmental Engineering B.S. Mining Engineering</b>	
17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer, Florida No. 54648</b>			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Scott Wuitschick's unique blend of education, experience, and technical skill allows him to make significant contributions to large, complex projects. Mr. Wuitschick's project expertise includes dredge process design, material handling design, process engineering, mine planning, hydrologic modeling, watershed management plans, ecological restoration and mitigation design, regulatory monitoring and compliance, and permitting (local, state, and federal). Mr. Wuitschick is the Central Florida Water Resources Engineering Manager responsible for oversight of the department. Drawing on his former experiences as a client of the professional services industry, Mr. Wuitschick clearly realizes the importance of understanding project goals, expectations, and challenges in order to provide outstanding products and overall value to the client. His client service focus, experience, and strong project management skills in conjunction with the outstanding technical strength of AMEC's Water Resources group results in the team being called upon repeatedly by public and private clients to assist with their most difficult challenges. Mr. Wuitschick's software proficiency includes: ICPR, VADOSE/W, SEEP/W, and GIS.			
19. Relevant Projects			
a.	(1) TITLE AND LOCATION (City and State) <b>Lake Beauclair Aquatic Enhancement, Tavares, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2013 / Construction: Ongoing</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager/Technical Advisor:</b> AMEC was selected to design a project to enhance navigability, habitat, and water quality of 1,100-acre Lake Beauclair through removal of more than 1.2 million cubic yards of organic sediment. Provided senior level QA/QC of the overall project design with specific emphasis on the dredging design, operating plan, equipment performance specifications, disposal site evaluations, and permitting assistance. <b>(Cost: \$10 million)</b>		
b.	(1) TITLE AND LOCATION (City and State) <b>Lake Seminole Sediment Removal Project, Pinellas County, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Managed the evaluation, design, and permitting aspects of a project designated to remove and dispose of nearly 1,000,000 cubic yards of sediment from within Lake Seminole. AMEC is providing full service evaluation, design, permitting, and construction management assistance services to Pinellas County pertaining to the removal and disposal of sediments from Lake Seminole. AMEC's services have included review and compilation of historic data, bathymetric and terrestrial surveys, sediment sampling and analysis (physical and chemical), evaluation of dredging and dewatering/disposal alternatives, cost estimating, permitting, development of construction plans and specifications, and public outreach. As part of this project, AMEC evaluated the feasibility of utilizing dredged sediments to cap a historic landfill owned by the City of Largo. This evaluation included GPR surveys of the landfill, perimeter monitoring of groundwater quality, geotechnical evaluations of the anticipated compaction of landfill waste materials, and impacts to surrounding water quality. Final permit approvals for the project are pending. <b>(Cost: \$850,000)</b>		
c.	(1) TITLE AND LOCATION (City and State) <b>Waterways Management Program, Tampa, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> AMEC was retained to provide professional engineering services in support of the City of Tampa's Waterways project. This project included design of dredging projects at various locations throughout the City including but not limited to residential canals in the Westshore area and Davis Islands. The project entailed evaluation of multiple dredging scenarios and upland disposal sites as well as several aqueous disposal and restoration options. Residential participation in the project plan was assessed and included in the project design through continuous public outreach and coordination efforts. The project included bathymetric surveying, physical and chemical characterization of sediment contaminants, design of dredging and disposal plans, evaluation of water quality impacts, preparation of permit applications, and coordination of stakeholder education and participation efforts. <b>(Cost: \$615,000)</b>		
d.	(1) TITLE AND LOCATION (City and State) <b>Lake May Organic Sediment Removal</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> AMEC is providing evaluation, design, and permitting services to the City of Winter Haven related to the removal of organic sediments from Lake May in Polk County, FL. AMEC's services include sampling, testing, and characterization of lake sediments, preparation of conceptual dredging and sediment management plans, and assessment of project alternatives under the first phase of the project.		
e.	(1) TITLE AND LOCATION (City and State) <b>FDEP Upper Peace River Watershed Restoration, Polk County, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Responsible for managing the design, permitting, and construction of multiple ecological and hydrological restoration projects at the Tenoroc Fish Management Area (TFMA) within the framework of a comprehensive strategy for restoration of the Upper Peace River. Overlying project goals include improvement of flows and water quality to the Peace River, increasing the overall ecological and recreational value of the TFMA, and providing wetland mitigation for impacts associated with the construction of the Polk Parkway. <b>(Cost: \$2 million)</b>		

E. Resumes of Key Personnel Proposed for this Contract

12. NAME <b>Walter R. Reigner, PE, CPESC</b>	13. ROLE IN THIS CONTRACT <b>Principal-in-Charge</b>	14. YEARS EXPERIENCE <b>28 Total / 28 Current Firm</b>
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Lakeland, Florida</b>	16. EDUCATION (DEGREE AND SPECIALIZATION) <b>M.S.C.E. Water Resource Engineering, (pending thesis approval)                  B.S. Civil Engineering</b>	

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
**Professional Engineer, Florida No. 44118, Michigan No. 6201055474, Alabama No. 29701-E, Georgia No. 034776  
 Certified Professional in Erosion and Sediment Control No. 1442**

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Mr. Walter Reigner is responsible for operations management, business development, and client relations activities for AMEC's Central Florida area. In this capacity, he is responsible for overseeing the operational and financial performance of AMEC's Central Florida office locations while ensuring frequent interaction and communication between the firm's valued clients and technical team. He is also involved in strategic business planning; particularly as it relates to growing the business and developing new areas of service that compliment AMEC's core strengths. In addition, Mr. Reigner provides principal level oversight of AMEC civil, water, and ecological projects. Over the years, he has gained a wide range of experience in a broad array of project types including regulatory permitting, infrastructure design, land development and redevelopment, utilities engineering, mining and reclamation, dam design, comprehensive watershed and lake restoration, sediment removal, integrated surface and groundwater modeling, and construction administration and management. He has worked on projects requiring the collaboration of numerous government agencies and stakeholders including Florida Department of Environmental Protection (FDEP), USACE, FDOT, water management districts, county and municipal government, water authorities, special districts, mining companies, developers, and large land owners. The breadth of experience Mr. Reigner has accumulated in the environmental, civil, water resources, and earth sciences makes him uniquely qualified to lead large-scale, multifaceted projects. Mr. Reigner initiated his career with AMEC as a co-op student. This unique beginning has allowed him to work in virtually every facet of the consulting engineering business, from technician to business manager and Principal-in-Charge. His diverse background allows him to easily understand client needs and engage his project team in a manner that consistently results in successful projects and long-term client relationships.

19. Relevant Projects

a.	(1) TITLE AND LOCATION (City and State) <b>Lake Maggiore Aquatic Enhancement, St. Petersburg, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2008 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> AMEC conducted a feasibility study of Lake Maggiore for the City of St. Petersburg to determine the most effective method of removing organic sediment from the bottom of the 350-acre lake located in a highly urbanized area. The project's purpose was to improve highly impacted water quality, habitat, and navigation. It was determined that approximately 2.3 million cubic yards of sand and highly organic sediment would need to be removed to achieve optimum restoration. Studied sediment removal methods included hydraulic dredging and lake drawdown/mechanical excavation. <b>(Cost: \$8 million)</b>	
b.	(1) TITLE AND LOCATION (City and State) <b>Lake Hollingsworth Restoration, Lakeland, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Engineer-of-Record:</b> Ten million dollar restoration of Lake Hollingsworth. The project utilized experimental dewatering and disposal technology on three million cubic yards of dredged sediment and received 35 percent of its funding from the federal government as a demonstration project. <b>(Cost: \$10 million)</b>	
c.	(1) TITLE AND LOCATION (City and State) <b>Master Engineering Consultant, Lake County Water Authority, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2009 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principal-in-Charge:</b> Lake County Water Authority (LCWA) projects under this contract included engineering services on Lake Beauclair, Lake Griffin, and the Clermont and Harris Chains of Lakes. Enhanced the navigability, habitat, and water quality of the 1,100-acre Lake Beauclair. Provided evaluation, design, and construction support services of Lake Griffin to remove sediments from more than 30 canals ringing the lake and place these sediments in a confined section of a subsided muck farm. Developed a systematic approach for managing signage for the waterbodies of the Clermont and Harris Chains of Lakes. <b>(Cost: \$350,000)</b>	
d.	(1) TITLE AND LOCATION (City and State) <b>Turkey Creek Restoration Dredging, St. Lucie County Port Authority, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2006 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Technical Advisor:</b> Responsible for quality assurance of water balance calculations, receiving water impacts, and sediment characterization and disposal logistics. <b>(Cost: \$372,000)</b>	
e.	(1) TITLE AND LOCATION (City and State) <b>Crane Creek Sediment Removal and Restoration, City of Melbourne, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2004 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Responsible for quality assurance of water balance calculations, receiving water impacts, and sediment characterization and disposal logistics. <b>(Cost: \$150,000)</b>	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Gary Nemeth	<b>13. ROLE IN THIS CONTRACT</b> Project Coordinator	<b>14. YEARS EXPERIENCE</b> 35 Total / 0 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> BSOE, MSIE, MBA	

**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
Over twenty-five years of engineering experience in business development, client maintenance, program, project, administrative and construction management, feasibility studies, design development, geotechnical, geohydrology, coastal, offshore and environmental field investigations, environmental impact assessment, human-health and ecological risk assessment, coastal sustainability studies, permitting and regulatory compliance.

Responsible areas of expertise include business development, client management and program execution related to design development, permitting, regulatory compliance and construction services to the regulated, non-regulated, municipal electric utilities and independent power producers in Florida including: Florida Power & Light, NextEra Energy Inc., Tampa Electric Company, Nautilus Energy, Orlando Utilities Corporation and Nautilus Solar Energy LLC. Principal in Charge responsible for design development of 5 MW Hatch Concentrated Solar PV Energy Center, siting studies for Nautilus Energy 100 MW solar PV energy plant, habitat surveys and critical issues assessments for numerous 10 MW Solar PV sites, certification activities for 5 MW Solar PV facilities, technical design and consulting support for utility-scale solar PV distributed generation program.

**Principal, Marine and Coastal Practice** – responsible for business development, client management, consulting and program and project execution related to design development, permitting, regulatory compliance and value engineering for marine and coastal projects in Florida, Texas, Washington, Bahamas and the Caribbean. Technical Consultant responsible for beach sustainability planning, design development and permitting for emergency beach nourishment, and conceptual design development and permitting associated with Atlantic ICWW deepening, marina expansion, compensatory seagrass mitigation programs and emergency sand back passing. Program and project management, technical consulting, and construction management for commercial, residential, resort and marina developments in the Caribbean and throughout the Commonwealth of the Bahamas. Technical consulting to Nuclear Power Generation Concern regarding IPCC modeling, coastal geomorphology, shoreline recession and sea level rise projections in the United Kingdom and engineering assessments of storm surge, wave and flood impacts at IOU generation and fuel storage facilities in the US. Technical Consultant responsible for beach sustainability planning for local and county governments and post- storm data collection for post-Hurricane Katrina wave and surge height assessments.

**19. Relevant Projects**

a.	<b>(1) TITLE AND LOCATION (City and State)</b> NOAA DARPP, Nationwide	<b>(2) YEAR COMPLETED</b> Professional: 2013 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Program Manager:</b> Program Manager for NOAA's Damage Assessment Restoration and Remediation Program Joint Venture. Projects included coastal ecosystem restoration, seagrass restoration in the northern Gulf of Mexico associated with BP spill, oyster reef design and construction, economic evaluation of listing right whale and small tooth sawfish, design development for navigation aides Looe Key. <b>(Cost: \$1.2 million)</b>	
b.	<b>(1) TITLE AND LOCATION (City and State)</b> Storm Surge Screening Analysis, Tampa and Canaveral, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2013 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Assessment of storm surge, wave height and flood inundation and identification of remedial options for power generation and fuel storage facilities. <b>(Cost: \$60,000)</b>	
c.	<b>(1) TITLE AND LOCATION (City and State)</b> CERP Biscayne Bay Coastal Wetlands Phase 1, Miami-Dade County, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2013 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Design development, permit support, agency coordination, cost estimating, biological assessments, field studies, marine excavation, development of plans and specifications, bid and contractor selection support, construction surveillance for large scale coastal ecosystem restoration projects associated with Comprehensive Everglades Restoration Plan. <b>(Cost: \$2.5 million)</b>	
d.	<b>(1) TITLE AND LOCATION (City and State)</b> Hatch 5MW Solar Energy Plant, Hatch, New Mexico	<b>(2) YEAR COMPLETED</b> Professional: 2010 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Design development, permit support, agency coordination, cost estimating, field studies and preparation of construction plans and specifications for 5 MW concentrated solar energy plant. <b>(Cost: \$425,000)</b>	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Michael Phelps, PE			<b>13. ROLE IN THIS CONTRACT</b> QA/QC Manager			<b>14. YEARS EXPERIENCE</b> 20 Total / 2 Current Firm		
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida			<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> M.S. Water Resources B.S. Civil Engineering					
<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Engineer, Florida No. 53315								

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

Mr. Michael Phelps has more than 20 years of experience with a wide variety of civil engineering projects. He has completed transportation projects, intersection improvements, utility system design, parks and recreational facility projects, and civil engineering for public facilities. Mr. Phelps is experienced in cost estimation, preparation of contract documents and specifications, project management, and field inspections. He has managed several continuing contracts for engineering services for counties and cities. In that role, he has successfully prepared team management plans to properly staff multiple, concurrent task assignments to maintain schedules and budgets to meet client needs. He is highly experienced in managing the overall contract as well as individual task assignments for municipal continuing services contracts.

Mr. Phelps is a member of the following professional organizations: American Society of Civil Engineers, Florida Engineering Society, Florida Floodplain Managers Association, American Water Resources Association, Lakes Education Action Drive, and National Society of Professional Engineers.

**19. Relevant Projects**

a.	<b>(1) TITLE AND LOCATION (City and State)</b> Polk County Transportation Division, Polk County, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Contract/Project Manager:</b> Responsible for several projects including stormwater management projects for roadways throughout Polk County. Projects include Garden Grove Feasibility Study, West Hancock Street Drainage Improvements, Experiment Station Road Improvements, and Crystal Lake Drive Improvements. (Cost: Engineering: \$1 million; Construction: \$1.8 million)	
b.	<b>(1) TITLE AND LOCATION (City and State)</b> City of Auburndale Continuing Engineering Services, Auburndale, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Contract/Project Manager:</b> Responsible for capital improvements and municipal services for the City of Auburndale. Recent projects include the Main Street Streetscape and the Signalization Improvements for Main Street at Bridgers Avenue. The signalization improvements project included development of plans to replace the existing concrete poles with mast arm assemblies. The project also required FDOT approval for the design and Polk County Transportation approval for the operation and maintenance aspects. (Cost: \$92,300)	
c.	<b>(1) TITLE AND LOCATION (City and State)</b> Polk County Utilities Division, Polk County, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Involved with utility system design and rehabilitation projects throughout Polk County. Completed several water main projects including the Polk County Utilities and Haines City Water Main Interconnect, Lily Lake Water and Wastewater Transmission System Design, Waverly Water Transmission System Design, Frostproof Water Main Extension, U.S. 27 Water System Improvements, SR 540 Water Main Extension, Moore Road Water Main Extension, and Pine Glen Subdivision Water Service Retrofit. (Cost: \$289,000)	
d.	<b>(1) TITLE AND LOCATION (City and State)</b> City of Bartow Engineering Consultant, Bartow, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Contract/Project Manager:</b> Responsible for municipal services projects for the City. Recent projects included the US 98 Water Main Relocation and U.S. 17 Water Main Repair projects. Both projects were completed in accordance with FDOT Design Standards as well as the Standard Specifications for Road and Bridge Construction. The projects also required FDEP permitting and certifications. (Cost: Engineering: \$7,000; Construction: \$140,000)	
e.	<b>(1) TITLE AND LOCATION (City and State)</b> City of Eagle Lake Engineering Services, Eagle Lake, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Responsible for municipal projects and on-call services. Recent projects include the Eagle Avenue Stormwater Improvements and the U.S. 17 Sidewalk Improvement projects. The U.S. 17 Sidewalk Improvements were completed in accordance to FDOT and ADA requirements. (Cost: Engineering: \$44,000; Construction: \$145,000)	
f.	<b>(1) TITLE AND LOCATION (City and State)</b> City of Lakeland Continuing Services, Lakeland, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Contract/Project Manager:</b> Responsible for municipal projects including stormwater management, water quality projects, parking studies, and construction inspection services. Most recently completed the award winning project, Lake Hollingsworth Westside Stormwater Treatment Project. This project included the preliminary project development, design and permitting, and construction phase services for roadway, pedestrian trail, and stormwater improvements. (Cost: Engineering: \$128,000; Construction: \$1.2 million)	

E. Resumes of Key Personnel Proposed for this Contract

<b>12. NAME</b> Michael Kelley, PE	<b>13. ROLE IN THIS CONTRACT</b> Geotechnical Evaluation	<b>14. YEARS EXPERIENCE</b> 19 Total / 11 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> M.S. Geotechnical Engineering B.S. Civil Engineering	
<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Engineer, Florida No. 71736, Idaho No. 14711		

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
 Mr. Michael Kelley has more than 19 years of geotechnical engineering experience with significant expertise in management and design works for large scale civil infrastructure, site investigation, reservoirs and water impoundment structures, site development, construction monitoring and testing, geological hazard assessment, geo-environmental remediation, landfill closure and expansion, and mining and tailings related engineering, all within a variety of geological settings. Mr. Kelley's extensive knowledge and experience directing activities associated with geotechnical projects range from market development, technical reviews, engineering analyses and supervision, and organization of field and laboratory testing programs. His broad background and management experience allow him to efficiently plan and operate projects on time and within budget, sufficiently manage staff, and provide quality reviews of geotechnical design reports for public and private developments. More specifically, he has been involved with a wide range of geotechnical and mining related projects including investigation, design and construction of large-scale water management projects, reservoirs, levees, and tailings and process water impoundments. His key experience also includes annual dam safety inspections and assessment and repair of slope stability and seepage issues associated with earthen embankments. Mr. Kelley has also managed significant civil infrastructure projects including geotechnical assessments for major roads, rail, tunnel, water supply, and wastewater plant design and construction. Mr. Kelley also has significant experience in the phosphate mining industry where remnant mining operations throughout Central Florida present unique geotechnical issues.

19. Relevant Projects		
a.	<b>(1) TITLE AND LOCATION (City and State)</b> Taylor Creek Restoration, St. Lucie County, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2009 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> Acted as lead consultant for a number of projects at the Brooksville limestone quarry including remediation of slope instability along 50-to 75-foot high tailings embankments and design and construction of new 100 foot high tailings embankment. Also completed annual dam safety inspections and environmental monitoring for FDEP permits. (Cost:\$380,000)	
b.	<b>(1) TITLE AND LOCATION (City and State)</b> Turkey Creek Dredging, St. Johns River Water Management District, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2006 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> Responsible for completing over-water field surveys and complex lab testing to determine soft sediment volume and physical and chemical characteristics for harbor and creek restoration along the Indian River Lagoon. Designed and permitted dredging and disposal operations, including coordination with Florida Inland Navigation District to construct a disposal facility for this and future dredging projects including evaluation. Dewatering technologies were utilized to maximize dredged sediment disposal volumes and reclaim organic sediments for re-use in alternative applications throughout the local area. Monitored construction and dredging operations for environmental compliance including discharge water quality and wildlife protection. (Cost:\$380,000)	
c.	<b>(1) TITLE AND LOCATION (City and State)</b> Crane Creek Dredging, St. Johns River Water Management District, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2004 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> Responsible for completing over-water field surveys and complex lab testing to determine soft sediment volume and physical and chemical characteristics. Designed and permitted dredging and disposal operations, including evaluation of flocculant and dewatering technologies to maximize dredged sediment disposal volumes in an existing disposal area at the adjacent wastewater treatment plant. Monitored construction and dredging operations for environmental compliance including discharge water quality and wildlife protection. (Cost:\$150,000)	
d.	<b>(1) TITLE AND LOCATION (City and State)</b> Lake Seminole Sediment Removal, Pinellas County, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: 2001
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> Assisted with geotechnical design aspects of the Lake Seminole Sediment Removal project. Tasks included geophysical and bathymetric sediment surveys, sediment characterization, disposal area evaluation and design, and dredge process evaluation and design. (Cost:\$850,000)	
e.	<b>(1) TITLE AND LOCATION (City and State)</b> Dredging and Sediment Disposal Design, Various Clients, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Providing design and construction monitoring for maintenance and improvement of water management structures throughout SWFWMD areas. Recent work includes Potts Preserve and L-112 Tampa Bypass Canal. (Cost: Varies with client)	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Les Bromwell, ScD, PE	<b>13. ROLE IN THIS CONTRACT</b> Geotechnical Evaluation	<b>14. YEARS EXPERIENCE</b> 48 Total / 40 Current Firm
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<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Sc.D. Civil Engineering, Massachusetts Institute of Technology, Boston, MA, 1966 B.S. Chemical Engineering, Massachusetts Institute of Technology, Boston, MA, 1961
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<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Engineer, FL No. 18234, 1972 Professional Engineer, ID No. 10525, 2001	
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**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
Dr. Bromwell has received registration as a Professional Engineer in eight states. He has represented industrial clients, government agencies, contractors, architects, and engineers on projects involving environmental and geotechnical problems and issues. He has served on consulting boards and task forces for the U.S. Army Corps of Engineers, the National Aeronautics and Space Administration (NASA), and agencies of the State of Florida. Dr. Bromwell has 50 years of professional experience in planning, design, construction, and performance monitoring of earth dams and impoundment facilities for multiple uses, including storage of phosphogypsum, mine tailings, chemical processing wastes, dredged materials management, and water supply.

**19. Relevant Projects**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
a.	<b>Independent Technical Review of C-44 Reservoir, HDR Engineering, Florida</b>	<b>Professional: 2010 / Construction: Ongoing</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</b> <b>Peer Review:</b> Reviewed Earth Dam Design details and conducted Dam safety analysis for proposed Everglades Restoration reservoir. Tasks included review of earthwork material selection and placement, seepage control measures, wind and wave analyses for freeboard determination and modeling erosion potential during hurricanes. Project includes 200,000 cubic yards of soil-cement slope protection. Engineering: \$50,000 Construction: \$275 million.	
b.	<b>Loxahatchee L-8 Reservoir, South Florida Water Management District (SFWMD), Palm Beach County, FL</b>	<b>Professional: 2004 / Construction: 2007</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</b> <b>Engineer of Record:</b> Responsible for all geotechnical work associated with the 1,000-acre facility, which is the deepest water storage reservoir in Florida. Project involved the design and construction of one of the first Comprehensive Everglades Restoration Plan (CERP) reservoirs to be completed by the SFWMD as part of their public-private partnership initiatives. Engineering: \$3.5 million; Construction: \$210 million.	
c.	<b>Ten Mile Creek Reservoir Evaluation, SFWMD, Ft. Pierce, FL</b>	<b>Professional: 2006 / Construction: 2006</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</b> <b>Project Manager:</b> Performed dam safety evaluations of geotechnical, hydrologic and structural conditions at the site prior to reservoir first filling. The evaluations included embankment borings, review of design documents, project flood modeling and outlet/spillway hydraulics. The project scope also included developing a reservoir monitoring program. \$140,000	
d.	<b>Section 24 Impoundment Design, Village of Wellington, FL</b>	<b>Professional: 2008 / Construction: 2010</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</b> <b>Engineer of Record:</b> Engineer of Record for earthwork design and construction of critical CERP reservoir for improving runoff water quality prior to discharge into Everglades. Project was designed and submitted for bids in record time and was constructed in 2009 under budget and on time. Project delivery was subject to time schedule set by Federal Judge and complied with all court orders. Engineering: \$260,000; Construction: \$17 million.	
e.	<b>Permitting for Lake Point Restoration Reservoir, Lake Point Partners, South Florida</b>	<b>Professional: 2011 / Construction: 2011</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</b> <b>Project Manager:</b> Provided permitting for the project where SFWMD and Martin County, will construct the reservoir cells and STAs during and following mining of portions of the property for high-grade limestone products. Discharge will be back to the Lake, or the C-44, or alternatively to the L-8 canal where it can flow to the L-8 Reservoir, the Loxahatchee River, or the West Palm Beach for restoration and water supply. \$115,000.	
f.	<b>Taylor Creek Restoration Dredging, Fort Pierce, Florida</b>	<b>Professional: 2001 / Construction: 2009</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</b> <b>Project Manager:</b> Determined sediment characteristics, calculated dredging volumes, designed report and construction plans for upland disposal area, and evaluated alternative dredging and disposal options.	
g.	<b>East Coast Protective Levee, Broward County, Florida</b>	<b>Professional: 2005 / Construction: 2008</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</b> <b>Principal Engineer:</b> Technical Evaluation of 38 miles of levees. Study assessed the levee system in accordance with FEMA requirements provided in 44 CFR 65.10. Evaluation included adequacy to retain a 100-year 72-hour storm event with hurricane winds. Geotechnical investigations and analyses of as-built sections for seepage, stability, and settlement were made.	

E. Resumes of Key Personnel Proposed for this Contract

<b>12. NAME</b> Glen Andersen, ScD, PE	<b>13. ROLE IN THIS CONTRACT</b> Geotechnical Evaluation	<b>14. YEARS EXPERIENCE</b> 29 Total / 1 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Sc.D. Geotechnical Engineering M.S. Geotechnical Engineering B.S. Civil Engineering	

**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**  
Professional Engineer Florida (In Process), Michigan, Louisiana, New York, Texas

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
Dr. Glen Andersen has more than 29 years of experience in engineering since his initial degree in Civil Engineering. This experience has involved a wide diversity of projects. While an engineer for the Chevron Oil Field Research Company, he developed engineering analysis models for offshore oil field production facilities at multiple locations in the northern hemisphere. He has managed large applied research projects for the Office of Naval Research (offshore pore water pressure measurement system), the National Science Foundation (dynamic behavior of retaining walls under seismic excitation), USACE (condition indexing for embankment dams), and Hydro-Quebec (condition indexing for spillways). Dr. Andersen's expertise includes the design of flood protection facilities, specifically geotechnical seepage and stability evaluations using USACE design methodologies for scores of flood protection facilities in the Gulf Coast Region and in the Upper Mississippi River Valley. These evaluations have been performed for hundreds of individual structures including levees, I-Walls, T-Walls, Pump Stations, Gates, and L-Walls. Several of these facilities have employed ground improvement technologies such as deep soil mixing and the use of geosynthetics. Dr. Andersen has received the Author's Award, Hyrdo Review - Development of Condition Assessment Methodologies for the Hydro Industry as well as the Hogentogler Award by the American Society for Testing & Materials - for Performance Analysis on Offshore Pore Pressure Monitoring System.

**19. Relevant Projects**

	<b>(1) TITLE AND LOCATION (City and State)</b> Analysis and Design of Seepage Control Systems, Wood River, Illinois	<b>(2) YEAR COMPLETED</b> Professional: 2010 / Construction: N/A
a.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> Engineering analysis and design support for reevaluation and upgrade of seepage control system along the Mississippi River and the Wood River in Southern Illinois. Modeling was based upon the SEEP/W finite element program and included estimating of aquifer geometry and seepage properties from soil borings laboratory grain size analyses. Used correlations between d10 and permeability (k) together with layered systems theory to estimate permeability. Analyzed a limited number of recent aquifer pump tests to calibrate d10 vs k correlation and extend the applicability of the correlation. Considered various seepage control alternatives including: pressure relief wells; well points; semi-permeable and permeable blankets and trenches.	
	<b>(1) TITLE AND LOCATION (City and State)</b> Flood Protection Facilities, Southern Louisiana and Rio Grande River Valley	<b>(2) YEAR COMPLETED</b> Professional: 2009 / Construction: N/A
b.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> Performance of geotechnical seepage and stability evaluations and the implementation of USACE design procedures for scores of flood protection facilities in Southern Louisiana and along the Rio Grande River in Texas and Southern New Mexico. Projects located in Southern Louisiana were associated with Hurricane Katrina Reconstruction and included: Algiers Canal and Pump Stations (Belle Chase I, Belle Chase II, Planters, SWB 11, and SWB 13); Bayou Segnette to Westwego Pump Station, Sector Gate, Reinforced Levee, and T-Walls; Cousins Pump Station; East of Harvey Projects (Contract 1, 2, and 3B); Highway 11 and Highway 90 T-Walls and Gates; IHNC East Reach II Gates, I-Walls and Levees; Lake Cataoutche Canal Closure and Levees; Lakefront Airport LPV-105 T-Walls; La Rose to Golden Meadow Pump Stations, T-Walls and Levees; LPV 107 I-Walls, T-Walls and Levees; Modifications to Task Order 1 Pump Stations (Cousins, Destrehan, New Estelle, Old Estelle); Whitney-Barrateria I-Walls and Sluice Gate; Modification to Tasks Order 2 Levees, Sector Gate and T-Walls; Task Order 3 Sluice Gates, Levees and T-Walls. Projects in the Rio Grande River Basin were associated with flood control facility upgrades by the USIBWC and included the following projects: Canutillo II Drainage Structures, T-Walls and Levees; Courschesne Levees; Donna Pump to Brownsville Levees; Nemexas Levees; North Floodway Levees; Paisano Phase II Levees, I-Walls and T-Walls; Presidio Levee; Riverside to Fabens Levees and Drainage Structures; and Vado Levees. Several of these facilities have required the use of ground improvement technologies such as deep soil mixing and the use of geosynthetics.	
	<b>(1) TITLE AND LOCATION (City and State)</b> Slope Stability Reevaluation for Large Landslide on the Cuyahoga River Shipping Channel, Cleveland, Ohio	<b>(2) YEAR COMPLETED</b> Professional: 2008 / Construction: N/A
c.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> Analysis of prior geotechnical engineering reports and historical data to identify the apparent causes of the instability and to propose a more cost-effective means of slope stabilization. The proposed stabilization was based upon a recharacterization of the geometry and orientation of the failure surface and its interaction with a much older ancient slide plane that was apparent but not properly identified in prior geotechnical engineering reports.	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Roberto Fernandez, PE	<b>13. ROLE IN THIS CONTRACT</b> Geotechnical Evaluation	<b>14. YEARS EXPERIENCE</b> 14 Total / 1 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, West Palm Beach, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> M.S. Financial Economics M.E. Geotechnical Engineering B.S. Civil Engineering	

<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Engineer, Florida No. 60070 ACI Aggregate Base Testing Technician CTQP Pile Driving Inspection CTQP Asphalt Paving Technician - Level 1		
CTQP Aggregate Base Testing Technician CTQP Qualified Sampler Technician CTQP LBR Technician CPN Nuclear Gauge User and Radiation Safety		

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
Mr. Roberto Fernandez is a licensed professional engineer with more than 13 years of experience in the geotechnical and materials testing consulting industry. Mr. Fernandez has managed and provided engineering services for numerous projects of varying size and scope, including roadways and bridges, water and wastewater treatment facilities, and stormwater impoundment and drainage facilities. Mr. Fernandez responsibilities include cost estimating, project management, coordination and supervision of field and laboratory work, quality assurance, engineering analyses and report preparation. Mr. Fernandez is intimately familiar with most widely used subsurface exploration and soil/rock laboratory testing methods; as well as destructive and non-destructive field and laboratory testing of construction materials. Mr. Fernandez has a broad experience in the geotechnical design of shallow and deep foundation systems, earthen embankments and earth retention systems, and in the preparation of technical specifications for earthwork and soil improvement methods. Mr. Fernandez also has extensive experience in the inspection of diverse soil improvement methods such as Vibro-Compaction, Vibro-Replacement, Dynamic Compaction, Deep Soil Mixing, Jet Grouting, Chemical Grouting and preloading/surcharging; and the installation of deep foundation systems including driven piles, augercast (ACIP) piles and drilled shafts, as well as micropiles and helical piers. **Involved with Section F Projects: 8.**

**19. Relevant Projects**

a.	<b>(1) TITLE AND LOCATION (City and State)</b> C-51 Reservoir, Palm Beach Aggregates, LLC, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior Engineer:</b> The project involves the construction of an above-grade and below-grade reservoir with a storage capacity of approximately 62,000 acre-feet. The reservoir and associated conveyance structures will be constructed in two phases. The site is located immediately west of the L-8 Reservoir off State Road 80 (Southern Boulevard) in Loxahatchee, Central Palm Beach County. Provided coordination and supervision of the subsurface exploration and laboratory testing program for the initial phase of the project. <b>(Cost: \$400,000)</b>	
b.	<b>(1) TITLE AND LOCATION (City and State)</b> Lake Manatee Dam Improvements, Manatee County Utilities Department, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior Engineer:</b> The project involves various improvements to an existing 3,600 feet long earthen dam with associated concrete spillway. The dam is located along the west edge of Lake Manatee, near Bradenton, Manatee County. The proposed improvements include the installation of a soil-cement seepage cutoff wall throughout the length of the dam. Provided coordination and supervision of the laboratory testing program to aid in the classification and characterization of the soil samples collected during the subsurface exploration. In addition, tasked with the preparation of the Technical Specifications for the construction phase of the project. <b>(Cost: \$800,000)</b>	
c.	<b>(1) TITLE AND LOCATION (City and State)</b> Compartment C Buildout, South Florida Water Management District, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2011 / Construction: 2011
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Project Manager/Senior Engineer:</b> The Compartment C Buildout Project comprised the construction of an approximately 6,500-acre Stormwater Treatment Area (STA). This facility is part of a network of man-made wetlands designed to naturally reduce stormwater runoff pollution levels flowing from the Everglades Agricultural Area before entering the Everglades. The project involved the construction of approximately 24 miles of perimeter and internal levees with numerous associated canals and water control features (weirs, culverts and pumping stations). Responsible for the preparation of the cost proposal, project management, the coordination and supervision of field and laboratory testing services to ensure conformance with the project plans and specifications, the preparation of technical reports and providing incidental geotechnical engineering services. <b>(Cost: \$500,000)</b>	
d.	<b>(1) TITLE AND LOCATION (City and State)</b> L-8 Reservoir, South Florida Water Management District, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2013 / Construction: 2013
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm <b>Senior Geotechnical Engineer:</b> This project involves improvements to an approximately 950-acre former rock quarry site converted into a man-made reservoir. This reservoir will function as a Flow Equalization Basin, providing 99,000 acre-feet of storage for delivery of consistent flows needed to optimize performance of the region's Stormwater Treatment Areas (STAs). The main improvements include erosion prevention features (roller compacted concrete revetments and turf reinforced mats) along the perimeter reservoir levees, the construction of a gated gravity fed inflow structure with associated conveyance channel, and a multi-stage pumping station with associated culverts discharging into the adjacent L-8 Canal. Coordinated and supervised the subsurface exploration program and prepared geotechnical engineering recommendations for the construction of the inflow structure and pump station, the conveyance canal with associated vehicular bridge, and various minor appurtenances; designed anchored and cantilevered sheet piling structures for several project features; and was in charge of the laboratory testing associated to the preliminary mix design for the roller compacted concrete revetment. <b>(Cost: \$100,000)</b>	



**E. Resumes of Key Personnel Proposed for this Contract**

<p>12. NAME <b>Lance Lombard, CLP</b></p>	<p>13. ROLE IN THIS CONTRACT <b>Permitting and Public Education</b></p>	<p>14. YEARS EXPERIENCE <b>19 Total / 3 Current Firm</b></p>
<p>15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Orlando, Florida</b></p>	<p>16. EDUCATION (DEGREE AND SPECIALIZATION) <b>M.B.A. Business Administration M.S. Fisheries Science B.S. Biological Science</b></p>	

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
**Certified Lake Professional**

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
**Professional organizations: North American Lake Management Society, Florida Lake Management Society**

**19. Relevant Projects**

a.	<p>(1) TITLE AND LOCATION (City and State) <b>Permitting Services, All Aboard Florida, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Permitting Team Lead:</b> Currently directing a team of scientists and engineers responsible for preparation of local, state, and federal permit applications required for construction of a high speed rail passenger transit system. Permitting services include wetland delineation and function (UMAM), T&amp;E species assessments, cultural resource assessments, essential fish habitat determination, habitat mapping, vegetation surveys, avoidance and minimization measures, mitigation determination, hydrologic modeling, geotechnical assessments, survey, project design and engineering, sovereign submerged lands determination, and GIS analyses including land use and soil types. Due to the expansive multi-jurisdictional nature of the project and its potential regional economic impacts, AMEC worked with the regulatory agencies to develop a fast-track "Tiger Team" approach. In addition to a multitude of permits associated with the State ERP or Federal Dredge and Fill application [404(b)], also involved with the EIS required for this project. <b>(Confidential Cost)</b></p>	
b.	<p>(1) TITLE AND LOCATION (City and State) <b>Mosaic AEIS Support and 404 Permitting Services, Various Locations, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Provided services related to development of the Areawide Environmental Impact Study (AEIS) including public scoping, preparation of background documentation for scoping, NEPA advising, and prepared various white papers for NEPA purposes. Concurrently provided scheduling and program coordination of simultaneous development and on-time delivery of three 404 Dredge and Fill permit applications submitted to USACE. This intensive effort required the coordination and participation of more than thirty permit team members from eight different companies. Developed and managed a customized task tracking matrix that satisfied the client's needs for both functionality and ease of use. Established and maintained a centralized file repository to verify completion of deliverables and provided all team members with access to the database. Provided meeting facilitation support as well as recording and dissemination of meeting minutes. Ongoing services include the preparation of additional 404 permit components including habitat mapping, vegetation surveys, fish and stream assessments (including benthos), alternatives assessments for various infrastructure needs, and addressing public comments. <b>(Cost: \$150,000)</b></p>	
c.	<p>(1) TITLE AND LOCATION (City and State) <b>Lake Griffin Canal Dredging, Leesburg, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2007 / Construction: 2007</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>LCWA Assistant Project Manager:</b> In an effort to improve the water quality in Lake Griffin, the LCWA undertook a \$7 million canal dredging project to allow residential access to the lake during periods of artificial drawdown. Assisted with obtaining Dredge and Fill permits from the USACE and the ERP from the FDEP. Project challenges included pumping dredge material up to 12 miles, contamination at the disposal site, and nearby bald eagle nests. Performed routine monitoring of contractor progress and water quality within the disposal area. Conducted public information meetings for the project. Managed appropriate monitoring for T&amp;E species. Conducted post-construction surveys and verified contractor progress. <b>(Cost: \$7.1 million)</b></p>	
d.	<p>(1) TITLE AND LOCATION (City and State) <b>Cooperative Stormwater Grant, Lake County Water Authority, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2010 / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>LCWA Project Manager:</b> Completed more than \$12.5 million in stormwater retrofit projects with cooperative agencies throughout Lake County. Projects including dry retention, wet detention, exfiltration, and sediment box configurations. Total nutrient removal for program for combined projects is estimated at 150 pounds per year. <b>(Cost: \$12.5 million)</b></p>	
e.	<p>(1) TITLE AND LOCATION (City and State) <b>Lake Beauclair Aquatic Enhancement Project, Lake County Water Authority, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2013 / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Developed and managed this project as a companion project to the Nutrient Reduction Facility in an effort to restore approximately 50,000 acres of surface waters downstream of Lake Apopka. This project targets in-lake nutrient loading and navigational issues and involves the strategic removal of approximately 1.4 million cubic yards of anthropogenic sediments deposited in Lake Beauclair. This \$10 million project is the largest project undertaken by LCWA and required nearly 10 years of planning and permitting to initiate construction. Challenges to the project included location of a suitable disposal site, consolidation of dredge material, and potential heavy metal contaminants in the dredge material. Coordinated several site alternatives with the SJRWMD and ultimately selected one that would provide a beneficial use of the dredge material by capping contaminated sediments within a restored agricultural property. Provided expert witness testimony and successfully defended LCWA against a challenge to the ERP alleging that the Lake Beauclair sediments contained excessive arsenic levels. Managed the Dredge and Fill permit for the USACE and the ERP for FDEP. Successfully negotiated a no-cost mitigation strategy with FDEP for any disturbance to lake vegetation at the time of dredging. Worked with FWC to secure \$1 million in cooperative funding. <b>(Cost: \$420,000)</b></p>	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Kevin Shelton	<b>13. ROLE IN THIS CONTRACT</b> Permitting and Public Education	<b>14. YEARS EXPERIENCE</b> 19 Total / 2 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Tampa, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> B.S. Zoology	

**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**  
 United States Coast Guard Licensed Captain 50 Gross Ton Master  
 SCUBA Diver  
 GPS/GIS  
 Commercial Pesticide Applicator – Natural Areas, Aquatic  
 Florida Fish and Wildlife Conservation Commission Authorized Gopher Tortoise Agent #GTA-12-00032

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
 Mr. Kevin Shelton has 19 years of ecological experience with a focus on wildlife in both captive and wild populations. His experience includes 16 years of zoo and aquarium design and operation, wildlife surveys for development permitting, and species specific behavioural surveys – including time spent as a Zookeeper II for Lowry Park Zoo in 1993/1994 and as Associate Curator/Senior Biologist and Registrar at Florida Aquarium in 2004. His work in incorporating public education and recreation in his wetland mitigation designs has resulted in improved mitigation success as well as cost savings to his clients. Mr. Shelton also has extensive experience with underground utility design and permitting. During his career in the zoological field, Mr. Shelton was a facility accreditation inspector for the Association of Zoos and Aquariums (AZA).

19. Relevant Projects		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a. <b>Lake Audrey Stormwater Improvements, Groveland, Florida</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Scientist:</b> Conducted wetland delineation of lake and shoreline habitats in preparation for environmental permitting for proposed stormwater improvements. Performed a wetland delineation based on 62-340, F.A.C. (Cost: \$50,000)	Professional: 2012 / Construction: N/A	
b. <b>Lake Seminole Sediment Removal, Pinellas County, Florida</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Scientist:</b> Provided professional environmental resource permitting services in support of County's Lake Seminole Sediment Removal Project involving dredging of one million cubic yards of nutrient laden sediments, dewatering and disposal. Conducted data collection and interpretation, environmental resource permitting, and construction design services.	Professional: Ongoing / Construction: N/A	
c. <b>Waterways Management Program, Tampa, Florida</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Provided professional environmental resource permitting services in support of City's Waterway Management Project involving dredging of several residential canals. Conducted extensive existing data collection and interpretation, compilation of Preliminary Design Report, and environmental resource permitting services. Navigated through very contentious public involvement and negotiated atypical permitting methods for expedited processing.	Professional: Ongoing / Construction: N/A	
d. <b>All Aboard Florida Rail Expansion Project, Miami-Dade, Broward, Palm Beach, Martin, St. Lucie, Indian River, Brevard, and Orange Counties, Florida</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Scientist/Manager:</b> Managed field biologists and conducted wetland delineation and evaluation, as well as an ecological survey in preparation for environmental permitting for proposed rail service expansion project. Project included 52 miles of additional track in existing rail right-of-way and 40 miles of new track within FDOT right-of-way. Performed wetland determination based on 62-340, F.A.C. Surveyed project areas for presence of T&E species involving literature searches, mapping, and on-site surveys. Ecological constraints documentation, UMAM, and alternatives analysis were developed including narratives, maps, figures, and photographs. Assisted in preparation of biological assessment and in securing all required environmental resource permits from federal, state, and local agencies.	Professional: Ongoing / Construction: N/A	
e. <b>MacDill Air Force Base Mangrove/Mosquito Ditch Restoration Masterplan, Tampa, Florida</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Project Scientist/Manager:</b> Conducted background research, performed field reconnaissance, and negotiated with the permitting agencies to develop innovative methods to restore mosquito ditched mangrove swamp and other disturbed areas. Developed plans for mangrove swamps, salters, tidal creeks, freshwater ponds, and salt marsh habitats. Proposed methods of construction included hydroblasting of dredge spoil mounds, plugging of drainage canals, limited earthwork, invasive species eradication, and replanting with native Florida wetland plant species. Produced comprehensive Ecosystem Restoration Conceptual Masterplan as a 20-year adaptive management strategy to be implemented in discreet phases along the southern shoreline of the base.	Professional: 2007 / Construction: N/A	
f. <b>Environmental Resource Permitting for Overhead and Underground Utility Installations, Various Clients, Florida</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Project Manager/Scientist:</b> Provided regulatory and proprietary permitting for dozens of underground utility installations through USACE, FDEP, WMDs, and special local districts. Installations included direct bury, trenching, and horizontal direction drill. HDD installations ranged from 50 feet to more than 3,000 feet. Clients included: TECO, Progress Energy, Tampa Electric, FDOT, Verizon, Florida Gas Transmission, Gasparilla Island Water Association, and more.	Professional: 2012 / Construction: N/A	

**E. Resumes of Key Personnel Proposed for this Contract**

12. NAME <b>Jeremy Paris, PWS</b>	13. ROLE IN THIS CONTRACT <b>Permitting and Public Education</b>	14. YEARS EXPERIENCE <b>7 Total / 5 Current Firm</b>
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Miami Lakes, Florida</b>	16. EDUCATION (DEGREE AND SPECIALIZATION) <b>M.S. Wetland Ecology                  B.S. Plant Science</b>	

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
**USACE-approved Indigo Snake Monitor  
 USACE-approved Bird Monitor**

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Paris has experience with NRCS WRP projects. He has six years of professional experience in the areas of wetland ecology and habitat restoration with four years experience in South Florida wetland, coastal, estuarine, mangrove, and lake ecosystems. As a Staff Scientist with AMEC, Mr. Paris is a valuable resource for 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, US Department of Defense and the National Parks Service. As a wetland biologist, Mr. Paris' responsibilities include technical writing, NEPA documentation, 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. **Involved with Section F Projects: 1 and 3.**

**19. Relevant Projects**

a.	(1) TITLE AND LOCATION (City and State) <b>Wetlands Reserve Program Fisheating Creek Site, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Staff Scientist:</b> Mr. Paris evaluated wetlands within the FEC easement. The aforementioned evaluation included a survey of threatened and endangered species in addition to identifying invasive and exotic species within the easement limits. The Fisheating Creek Wetlands Reserve Program (WRP) project is the largest contiguous private lands project (34,122 acres) in the country involving four (4) landowners and seven (7) individual tracts of land and approximately 8 miles of channelized Fisheating Creek located in Highlands County, Florida. AMEC has conducted assessment of the ecological health and hydrologic regime of the project area and is developing solutions for restoration of the area to a more historic condition. To meet success criteria, AMEC has conducted surveying, modeling and a biological assessment of the site. Modeling includes development of an existing model and 3 alternatives. As a field team member, Mr. Paris played an integral part in the assessment of wetlands and uplands on the FEC site; he also assisted with rewriting portions of the WRPO. <b>(Cost: \$1.3 million)</b>	
b.	(1) TITLE AND LOCATION (City and State) <b>Wetlands Reserve Program-Kissimmee Oaks &amp; Oxbow, Okeechobee, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Wetlands Specialist.</b> Mr. Paris was 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. AMEC developed a WRPO conservation plan that identified how wetland functions and values will be restored, enhanced, protected, maintained and managed to accomplish the goals of the USDA NRCS WRP. Project efforts included assessment of the general health and condition of the various habitats, identification of the presence of exotic and invasive species, and evaluation of current site hydrology. Project goals included development of alternatives for the restoration of historical habitats, based on proper hydrology and vegetation community structure. <b>(Cost: \$89,000)</b>	
c.	(1) TITLE AND LOCATION (City and State) <b>AFCEE-MacDill Air Force Base (AFB), Tampa, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Field Scientist:</b> Mr. Paris performed wetland delineation and T&E species surveys within the installation. The ecological services included migratory bird surveys within beach and coastal ecosystems. Additional services included nesting surveys for bald eagles as well as the delineation of mangrove and assessment of mangrove wetlands for restoration purposes. AMEC was tasked with conducting T&E surveys on the Base to determine population trends and habitats; preparing a T&E report; delineating wetlands in the mangroves; and providing permit assistance related to mangrove restoration projects. The protected species, gopher tortoise and burrowing owl, were also monitored. The data collected will also be utilized in support of an Environmental Assessment (EA) AMEC is preparing for AFCEE. <b>(Cost: \$166,000)</b>	
d.	(1) TITLE AND LOCATION (City and State) <b>Jack Creek Hydrologic and Wetland Restoration, Sebring, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Wetlands Specialist:</b> Mr. Paris performed a wetland assessment for the Jack Creek wetland project site located within the Jack Creek floodplain. During the assessment process, Mr. Paris completed a UMAM determination of the current site conditions and potential benefits of hydrologic restoration. Mr. Paris' responsibilities as part of the UMAM procedure was to perform a desktop review of the documented occurrences of FNAI threatened and endangered species as well as performing an on-site survey of threatened and endangered species. This project consists of design and permitting for the hydrologic and natural systems restoration of impacted wetlands on the Jack Creek Tract. <b>(Cost: \$205,000)</b>	

E. Resumes of Key Personnel Proposed for this Contract

12. NAME <b>Wendy C. Blondin, PG</b>			13. ROLE IN THIS CONTRACT <b>Permitting and Public Education</b>		14. YEARS EXPERIENCE <b>27 Total / 12 Current Firm</b>	
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Miami, Florida</b>			16. EDUCATION (DEGREE AND SPECIALIZATION) <b>M.S. Geology/Hydrogeology B.S. Soil Science</b>			

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
**Professional Geologist, Florida No. PG1888**

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Ms. Wendy Blondin is a Principal Geologist with 27 years of experience in environmental consulting with expertise in contamination assessments and remediation, drinking 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.

19. Relevant Projects

a.	(1) TITLE AND LOCATION (City and State) <b>State School QQQ-1 Wetland and StormWater Permitting, Oleta River Recreation Area, Miami-Dade County Public Schools, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Hydrogeologist:</b> Part of the environmental permitting services provided to Miami-Dade County Public Schools. Provided permitting and ecological services required to obtain the permits to construct a school on a property that contains coastal wetlands that are part of the Oleta River Recreation Area. The scope of services included wetland delineation, off-site mitigation for indirect impacts of construction, preparation of a wetland maintenance and monitoring plan, protection of the wetlands during construction, development of a conservation easement for long-term preservation of the wetlands and associated buffer, documentation of permit compliance, and long term monitoring and maintenance of the wetlands. <b>(Cost: \$68,000)</b>	
b.	(1) TITLE AND LOCATION (City and State) <b>State School TT-1 On-site Wetlands Design, Miami-Dade County Public Schools, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Hydrogeologist:</b> Part of the environmental permitting services provided to Miami-Dade County Public Schools. Managed the design and construction of an on-site wetland mitigation area to meet the requirements of a USACE dredge and fill permit. An existing canal and poor functional value wetlands were replaced with an engineered mitigation area. The services included preparing cut and fill drawings, proposed topography detail, technical specifications, planting plans, construction oversight, and long-term monitoring and maintenance. Additionally, designed an educational overlook with signage to be utilized in the school curriculum. <b>(Cost: \$18,445)</b>	
c.	(1) TITLE AND LOCATION (City and State) <b>Project Development and Environment Reports for SR 836 Widening, Miami-Dade Expressway Authority, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2011 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager/Project Geologist:</b> Managed a team of scientists who prepared the wetland evaluation report, endangered species biological assessment, and sociocultural effects evaluation for the PD&E study along a 4.89 mile corridor of SR 836/Dolphin Expressway in Miami Dade County. Completed a contamination screening evaluation which included over 200 contaminated sites that required ranking and evaluation. Completed the final report with recommendations limited Level 2 Contamination Assessments. Attended meetings with the MDX team and assisted with the State environmental impact report preparation. <b>(Cost: \$290,000)</b>	
d.	(1) TITLE AND LOCATION (City and State) <b>Monroe County Canal Bathymetry and Sediment Characterization, Monroe County Engineering Services, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> 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. <b>(Cost: \$100,000)</b>	
e.	(1) TITLE AND LOCATION (City and State) <b>West Dade Soccer Field, Miami-Dade County, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2010 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager/Project Hydrogeologist:</b> Performed an assessment at an existing landfill site of the type of refuse, methane concentrations, thickness of cover material, and soil and groundwater concentrations. Assessment results were utilized to determine the design requirements for construction of a soccer field with associated bathrooms, utilities, and other amenities. <b>(Cost: \$18,783)</b>	

E. Resumes of Key Personnel Proposed for this Contract

12. NAME <b>Jennifer Sagan, MS</b>		13. ROLE IN THIS CONTRACT <b>Permitting and Public Education</b>	14. YEARS EXPERIENCE <b>27 Total / 5 Current Firm</b>
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Gainesville, Florida</b>		16. EDUCATION (DEGREE AND SPECIALIZATION) <b>M.S. Microbiology B.S. Zoology</b>	
17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>FDEP Certified Freshwater Stream Habitat Assessor FDEP Surface and Groundwater Monitoring FDEP Stormwater Erosion and Sedimentation Control Inspector</b>			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Jennifer Sagan has over a decade of experience conducting monitoring and providing technical input on water management issues for water quality, water quantity and aquatic habitat restoration as related to the establishment of Total Maximum Daily Loads (TMDLS), water withdrawal impacts including Minimum Flows and Levels (MFLs) and in support of National Pollutant Discharge Elimination System (NPDES) compliance monitoring. Ms Sagan currently acts as AMEC's Biology-Toxicology Laboratory project manager. Ms. Sagan has acted as a member of a multi-agency technical advisory committee to address issues related to water quality, aquatic organism habitat restoration, and establishment of TMDLS for the Lower St. Johns River. Ms. Sagan has been responsible not only for environmental project design and statistical analyses but also has often been called upon to report related findings to board members, media representatives, the general public, and technical conference attendees.			
19. Relevant Projects			
a.	(1) TITLE AND LOCATION (City and State) <b>Minimum Flows and Levels, Middle Suwannee River, Suwannee River Water Management District (SRWMD), North Florida</b>	(2) YEAR COMPLETED <b>2013</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Coordinator:</b> AMEC was contracted to develop the full scope of services to establish MFLs for an 80-mile segment of this large, iconic Florida river. This scope is fully inter-disciplinary including hydrology, water resources, geology, in-stream biology, soils, and floodplain community assessments. Because of the direct riverine and groundwater interactions in a karst terrain, this project will also establish MFLs for more than 15 springs. (Cost: 76,000)		
b.	(1) TITLE AND LOCATION (City and State) <b>Scientific, Technical, and Field Support Services, St Johns River Water Management District, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2011 / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Managed the 20 full-time, AMEC staff provided to the SJRWMD for Districtwide technical and field support services. Provided supervisory and contract management support to 15 SJRWMD project managers. AMEC on-site personnel supported the District's Core Mission throughout District lands. Project support included Alternative Water Source Impact Evaluation, MFLs, the Lake Apopka Restoration Project, TMDLS establishment, and the Surface Water Quality Monitoring program. Personnel performed biological and water quality data collection, project design and data analysis, hydrologic and hydraulic modeling, database management, GIS support, and programming. (Cost: \$13 million)		
c.	(1) TITLE AND LOCATION (City and State) <b>Submerged Aquatic Vegetation and Water Quality Monitoring</b>	(2) YEAR COMPLETED <b>Professional: 2009 / Construction: 2008</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Conducted bimonthly SAV and water quality monitoring associated with seven sites within the Caloosahatchee Estuary in support of SFWMD's Comprehensive Everglades Restoration Plan (CERP). Performed analyses of the five-year monitoring project data that resulted in the Northern Estuaries Module Draft System Status Report for SFWMD. (Cost: \$300,000)		
d.	(1) TITLE AND LOCATION (City and State) <b>Surface Water Quality Monitoring Network, St Johns River Water Management District, Glades and Lee Counties, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2011 / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> AMEC provided field, laboratory, and database management services in support of surface water quality monitoring for two monitoring networks for the St. Johns River Water Management District (SJRWMD) and FDEP: Integrated Water Resources Monitoring (IWRM) Tier 1 Status Network and Fixed-Station Trend Network. Fixed sites were sampled monthly and enabled FDEP to obtain chemistry, discharge, and loading data at the point that integrates the land use activities of the watershed over a ten year period. AMEC was responsible for documenting water and sediment quality and biological conditions to characterize the environmental conditions of Florida's fresh water resources to determine how these conditions change over time, both at a basin level and Statewide. AMEC staff adhered to the FDEP Standard Operating Procedures (SOPs) for sampling and field work and "Status and Temporal Variability Monitoring Network Sampling Manual." AMEC performed the following specific tasks in support of this project: (Cost: \$320,000 annually)		
e.	(1) TITLE AND LOCATION (City and State) <b>Sediment Bioaccumulation and Toxicity Study, Tampa Bay Estuary Program, Tampa, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2011 / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Toxicology Laboratory Project Manager:</b> The Tampa Bay Estuary Program (TBEP) Sediment Quality Advisory Group (SQAG) proposes management actions in areas of the bay with poor sediment and benthic habitat quality. McKay Bay has been extensively sampled to identify localized sediment contaminant "hot spots". The purpose of this project was to provide data on the acute toxicity of sediments from selected portions of the bay, and ability of sediment toxicants in those areas to bioaccumulate in the tissues of test organisms. AMEC conducted a 10-day whole sediment acute toxicity test and 28-day bioaccumulation test on sediment samples. Organism tissue was analyzed for organochlorine pesticides, PAHs, and PCB Aroclors.		

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Mark Jones	<b>13. ROLE IN THIS CONTRACT</b> CAD Services	<b>14. YEARS EXPERIENCE</b> 20 Total / 5 Current Firm
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<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> A.S. Engineering Technology — Drafting & Design
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**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
Mr. Mark Jones has 20 years experience in stormwater, water, and wastewater design. He has also been responsible for all aspects of municipal engineering including utility system improvements, stormwater management system design, roadway design, and other special projects. Mr. Jones develops and maintains CAD standards, schedules projects, and estimates budgets.

**19. Relevant Projects**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
a.	Hillsborough County Stormwater & Environmental Engineering Services, Hillsborough County, Florida	Professional: Ongoing / Construction: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> Providing CAD services for stormwater and environmental engineering capital improvement projects in Hillsborough County. AMEC's primary role is to perform PD&E studies and final designs for capital improvement projects and retrofit stormwater projects. Also contributing design and construction plan services for neighborhood drainage projects to prevent flooding. (Cost varies per project)	
b.	Plant City Master Engineering Services, Plant City, Florida	Professional: Ongoing / Construction: Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> Responsible for design of the streetscaping and minor drainage improvements along Evers Street and calculation of volumes for the pond for the softball complex stormwater management system retrofit. (\$160,000 for 2 jobs)	
c.	Citrus County Master Engineering Services, Citrus County, Florida	Professional: Ongoing / Construction: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> Providing comprehensive engineering support services to Citrus County on an ongoing basis. Projects to date have included the design of a multi-stage, 3-acre dry retention stormwater pond and the design of a stormwater system to serve an area in Northeast Citrus County where residents are experiencing flooding during large storm events. Also performing specific-purpose engineering assessment of isolated flooding and erosion problems in a subdivision where a number of homes were experiencing nuisance flooding during extensive rainfall events. (Cost varies per project)	
d.	Lake County Master Water Resource Consultant, Lake County, Florida	Professional: Ongoing / Construction: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> AMEC provided engineering services on Lake Beauclair, Lake Griffin, and the Clermont and Harris Chain of Lakes as part of this consultation contract. Provided CAD services in support of evaluation, and design services for Lake Griffin to remove sediments from more than 30 canals ringing the lake and to place those sediments in a confined section of a subsided muck farm. (\$350,000)	
e.	Haines City Watershed Management Plan, Haines City, Florida	Professional: 2006 / Construction: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> Created and designed plans that involved large water and force mains along the U.S. 27 FDOT corridor. Designed and created plans for the City's streetscape project. (\$400,000)	
f.	Lake Maggiore Aquatic Enhancement, St. Petersburg, Florida	Professional: 2008 Ongoing / Construction: N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> Designed and created plans after a feasibility study was conducted on Lake Maggiore for the City of St. Petersburg to determine the most effective method of removing organic sediments from the bottom of the 350-acre lake located in a highly urbanized area. The project's purpose was to improve highly impacted water quality, habitat, and navigation due. It was determined that approximately 2.3 million cubic yards of sand and highly organic sediment would need to be removed to achieve optimum restoration. (\$8 million)	
g.	Waterways Management Program, Tampa, Florida	Professional: 2009 / Construction: 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> Contributed CAD services in support of the professional engineering services for the City of Tampa's waterway management projects. This special assessment program includes design of dredging projects at various locations throughout the City including but not limited to the Westshore area and Davis Islands. (\$615,000)	
h.	Lake Beauclair Aquatic Enhancement, Florida	Professional: 2013 / Construction: Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior CAD Designer:</b> Designed and created construction plans for Lake Beauclair. This project enhances the navigability, habitat, and water quality of the 1,100-acre Lake Beauclair by removing more than 1.2 million cubic yards of organic sediment and a partial lake pump-down and installation of aquatic vegetation. Used the dredge material to cap soils in a subsided muck farm near Lake Apopka at a sufficient elevation to support wetland restoration (emergent marsh). Completed the design of the disposal area embankments, alum treatment system for the supernatant, and the pipeline and pumping system for sediment management at a disposal location meeting the requirements of the St. John's River Water Management District and United States Fish and Wildlife Service. (\$10 million)	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Aziza Baan, GISP	<b>13. ROLE IN THIS CONTRACT</b> GIS Services	<b>14. YEARS EXPERIENCE</b> 9 Total / 8 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> B.S. Environmental Science Post Baccalaureate Certificate, GIS	
<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Geographic Information Systems Professional MSHA		

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

Ms. Baan is proficient in working with GIS in environmental and water resources disciplines. Using her strong science and GIS expertise, she specializes in stream and wetland restoration planning and design, watershed modeling, floodplain mapping, land use planning, terrain processing, and spatial and volumetric analysis. Ms. Baan manages 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. **Involved with Section F Projects: 3, 4, 5, 6, and 9**

**19. Relevant Projects**

a.	<b>(1) TITLE AND LOCATION (City and State)</b> Waterways Management Program, Tampa Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist:</b> Prepared draft volumetric cut calculations for proposed dredging along 14 Westshore canals. Produced existing and proposed DEMs highlighting the dredging areas and existing restoration areas for seagrass mitigation. Analyzed data to determine which property parcels will be affected by the proposed dredge. Also performed QA/QC analysis. <b>(Cost: \$615,000)</b>	
b.	<b>(1) TITLE AND LOCATION (City and State)</b> Lake Rowell Aquatic Enhancement, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist:</b> 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.	
c.	<b>(1) TITLE AND LOCATION (City and State)</b> Gilshey Branch West Pisgah Wetland Design, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2006 / Construction: 2010
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist:</b> 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. <b>(Cost: \$57,000)</b>	
d.	<b>(1) TITLE AND LOCATION (City and State)</b> Watershed Management Plans, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2011 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Specialist:</b> Worked on numerous WMPs such as Sarasota, Avon Park, Polk City, and Horse Creek. Generated terrains from LiDAR data and drainage basins with the Arc Hydro tool. Developed drainage networks and assisted in hydrographic and hydraulic modeling as well as floodplain generation and analysis. Developed geodatabases with feature classes that included delineated watersheds, the watershed network, gauging stations, land use, soils, 500-year floodplain, and topographic data. Also performed many aerial interpretations for mapping of wetlands and other vegetation, land use changes roads, ditches, and stormwater structures. <b>(Cost: \$300,000)</b>	
e.	<b>(1) TITLE AND LOCATION (City and State)</b> All Aboard Florida, Multiple Cities, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>GIS Task Leader:</b> Responsible for managing all GIS tasks and support for the environmental permitting and drainage design engineering services for the project area from Miami to Orlando. Responsible for the GIS data collection, GIS analysis, field data conversions, Lidar analysis, ecological mapping and other map generation for numerous types of permits required for this project. <b>(Confidential Cost)</b>	
f.	<b>(1) TITLE AND LOCATION (City and State)</b> Natural Channel Design for Florida Streams, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2014 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Water Resource Scientist/GIS Specialist:</b> Assisted in a four-year study by providing GIS analysis, calculations, LiDAR, aerial interpretations, and other data analysis. Developed detailed DEMs from stream survey points to help visually portray the different classifications of streams for the Florida specific channel design and characterization manual. <b>(Cost: \$385,000)</b>	
g.	<b>(1) TITLE AND LOCATION (City and State)</b> South Pasture Extension Hydrologic/Ecologic Restoration Design & Permitting, CF Industries, Inc., Hardee County, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Water Resource Scientist/GIS Specialist:</b> Assisted in the design and restoration of 10 miles of streams and several hundred acres of interconnected wetland systems. Developed topographic and vegetative reclamation designs based on hydrologic modeling of pre- and post-development conditions. <b>(Cost: \$2 million)</b>	

E. Resumes of Key Personnel Proposed for this Contract

12. NAME <b>R. Michael Jones, PLS, CFedS</b>		13. ROLE IN THIS CONTRACT <b>Surveying, Sampling &amp; Characterization</b>	14. YEARS EXPERIENCE <b>36 Total / 26 Current Firm</b>
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Orlando, Florida</b>		16. EDUCATION (DEGREE AND SPECIALIZATION) <b>A.S. Civil Engineering, Central Florida Community College A.S. Land Surveying and Mapping, Central Florida Community College</b>	
17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Land Surveyor, Florida No. LS4201, Georgia No. LS2367, Alabama No. LS16447, Mississippi No. LS3172, Texas No. LS6231, California No. LS8707 Certified BLM Federal Surveyor, No. 1486</b>			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Michael Jones is a Senior Principal Surveyor and Project Manager as well as a registered Professional Land Surveyor with more than three decades of Central Florida professional experience in surveying and mapping. He is extremely proficient in all aspects of survey management, including project planning, estimating, and implementation. He has specific expertise in the areas of geodetic control surveys, engineering design surveys, subsurface utility surveys, bathymetric surveys, and boundary determinations. He has managed surveying and mapping projects for government agencies at the local, regional, and state levels, including the City of Orlando, Orange County, Greater Orlando Aviation Authority, SJRWMD, SFWMD, Tampa Bay Water, and FDEP. Mr. Jones is a member of the following professional organizations: American Association for Geodetic Surveying, National Society of Professional Surveyors, Florida Surveying and Mapping Society, and American Society of Civil Engineers.			
19. Relevant Projects			
a.	(1) TITLE AND LOCATION (City and State) <b>City of Orlando Continuing Surveying Services Contract, Orlando, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Responsible for project management from 1993 to 1999, 2001 to 2008, and 2011 to 2013 under four separate contracts. Work under these contracts involved supporting various City departments, including Public Works, Engineering, Legal, Parks and Recreation, Capital Projects, and Drainage. Assignment included platting, boundary and topographic surveys, subsurface utility designation and location, and control surveys. <b>(Cost: varies per project)</b>		
b.	(1) TITLE AND LOCATION (City and State) <b>Orange County Continuing Surveying Services, Orange County, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Has served as a Project Manager to the County since 1999 in support of various County departments including Capital Improvements, Public Works, Parks and Recreation, Real Estate, and Roads and Drainage. Representative assignments have included geodetic control densifications, topographic surveys, utility route surveys, photogrammetric survey control, lift station surveys, preparation of legal descriptions, and GIS inventory mapping. <b>(Cost: \$750,000)</b>		
c.	(1) TITLE AND LOCATION (City and State) <b>Orange County School Board Continuing Surveying and Mapping Services, Orange County, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Has served as Project Manager since 2007 in support of capital improvement projects. Typical assignments have included boundary, topographic, and subsurface utility surveys of existing school sites to support site rehabilitation design and construction. <b>(Cost: \$200,000)</b>		
d.	(1) TITLE AND LOCATION (City and State) <b>City of Ocoee Continuing Surveying Services, Ocoee, Florida</b>	(2) YEAR COMPLETED <b>Professional: Ongoing / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Has served as Project Manager on this contract to the City from 1999 to present. Projects have included boundary surveys, construction layout and as-built surveys, specific purpose surveys, topographic surveys, subsurface utility line surveys to include designation and excavation, preparation of legal descriptions, and platting and plat review for conformance with Chapter 177, Florida Statutes. <b>(Cost: \$175,000)</b>		
e.	(1) TITLE AND LOCATION (City and State) <b>Survey Support Services Naval Training Center, Orlando, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2010 / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> For 13 years, AMEC served the U.S. Navy and the City of Orlando as the survey and mapping consultant to facilitate the disposition of four properties making up the Naval Training Center (NTC). Responsible for surveying management, resource allocation, technical review, and QA/QC. Relevant tasks included topographic and boundary surveys, mapping of underground utilities, photogrammetric mapping, and GIS activities. Managed several subcontractors and successfully deployed specialists as needed to execute the needs of the contract. Resulting surveys were reviewed and approved by Naval Engineering Command on behalf of the Secretary of the Navy for disposition of the properties to the City of Orlando. <b>(Cost: \$1.2 million)</b>		
f.	(1) TITLE AND LOCATION (City and State) <b>Lake Apopka Restoration Surveys, Lake Apopka, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2010 / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Provided boundary surveys for acquisition of property along one of Florida's largest lakes. Certified boundary surveys prepared for 11 properties totaling more than 10,000 acres. Responsible for overall program management, resource allocation, and quality control and assurance. <b>(Cost: Varied per survey)</b>		
g.	(1) TITLE AND LOCATION (City and State) <b>Chassahowitzka Springs Topographic Survey, Southwest Florida Water Management District, Citrus County, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2014 / Construction: N/A</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principal Surveyor:</b> Responsible for all surveying activities needed to support planning and design of new public facilities. Tasks included bathymetric survey of springs and topographic survey of adjacent land. <b>(Cost: \$151,000)</b>		



**E. Resumes of Key Personnel Proposed for this Contract**

<p>12. NAME <b>Charles Gardiner, PLS, CFedS</b></p>	<p>13. ROLE IN THIS CONTRACT <b>Survey, Sampling &amp; Characterization</b></p>	<p>14. YEARS EXPERIENCE <b>20 Total / 16 Current Firm</b></p>
<p>15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Orlando, Florida</b></p>	<p>16. EDUCATION (DEGREE AND SPECIALIZATION) <b>B.S. Surveying &amp; Mapping A.S. Civil Engineering</b></p>	
<p>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Land Surveyor, FL, No. LS5046; SC, No. 27735; MO, No. 2011017289; LA, No. 5077; NC, No. L-4598 Certified BLM Federal Surveyor, No.1475</b></p>		

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Gardiner is a Principal Surveyor and Project Manager with over two decades of experience in a wide range of surveying and mapping activities, including management and execution of projects for both private and public sector clients. His extensive technical background accentuates his ability to manage personnel and projects effectively. He has specific expertise in geodetic surveying [conventional and global positioning system (GPS)], route/design surveying and mapping, boundary surveying. Mr. Gardiner places an emphasis on new technologies, including GIS, being developed for the surveying and engineering professions. **Involved with Section F Projects: 1, 3, and 6.**

**19. Relevant Projects**

a.	<p>(1) TITLE AND LOCATION (City and State) <b>Wetlands Reserve Plan-Kissimmee Oaks and Oxbow, Okeechobee, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Surveyor:</b> Supervised Phase II surveying services associated with WRPO development and engineering design. Tasks included establishing and densification of NAD83/07 and NAVD88 control, topographic survey of portions of site, wetland profiles, surveys of existing drainage structures, and cross section surveys of canals, ditches, roads and areas of planned construction. Produced both hard copy and CAD deliverable final products. AMEC developed a conservation plan that identified how wetland functions and values will be restored, enhanced, protected, maintained and managed to accomplish the goals of the USDA NRCS WRP. Project efforts included assessment of the general health and condition of the various habitats, identification of the presence of exotic and invasive species, and evaluation of current site hydrology. Project goals included development of alternatives for the restoration of historical habitats, based on proper hydrology and vegetation community structure. <b>(Cost: \$89,000)</b></p>	
b.	<p>(1) TITLE AND LOCATION (City and State) <b>Wetlands Reserve Program Lott Wetland Restoration, Sebring, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Surveyor:</b> Responsible for successful completion of Phase II surveying services associated with WRPO development and engineering design. Tasks included establishing and densification of NAD83/07 and NAVD88 control, topographic survey of specific portions of site, surveys of water wells, wetland profiles, surveys of existing drainage structures, and cross section surveys of canals, ditches, roads and areas of planned construction. Produced both hard copy and CAD deliverable final products. AMEC developed a conservation plan that identified how wetland functions and values will be restored, enhanced, protected, maintained and managed to accomplish the goals of the USDA NRCS WRP. Project efforts included assessment of the general health and condition of the various habitats, identification of the presence of exotic and invasive species, and evaluation of current site hydrology. Project goals included development of alternatives for the restoration of historical habitats, based on proper hydrology and vegetation community structure. <b>(Cost: \$119,000)</b></p>	
c.	<p>(1) TITLE AND LOCATION (City and State) <b>Flying Eagle Shinn Ditch Hydrologic and Wetlands Restoration, Inverness, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2009 / Construction: 2009</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Surveyor:</b> Responsible for successful completion of surveying services associated with wetlands restoration engineering design over this 10,950 acre parcel. Tasks included establishing and densification of NAD83/07 and NAVD88 control, topographic survey of specific portions of site, wetland profiles, surveys of existing drainage structures, cross section surveys of canals, ditches, roads and areas of planned construction and as-built surveys. Produced both hard copy and CAD deliverable final products. Overall project included the design, construction and environmental permitting services as part of hydraulic and wetlands restoration plan for Shinn Ditch wetlands system within 3,500-acre rural Flying Eagle tract in Citrus County. Environmental and ecologic conditions degraded over decades due to unfavorable historic land use. Services to restore natural hydrologic functions of storage and conveyance and ecologic value of wildlife habitat diversity within system. <b>(Cost: \$205,000)</b></p>	
d.	<p>(1) TITLE AND LOCATION (City and State) <b>Chassahowitzka Springs Topographic Survey, Southwest Florida Water Management District, Citrus County, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2014 / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Surveyor:</b> Responsible for all surveying activities needed to support planning and design of new public facilities. Tasks included bathymetric survey of springs and topographic survey of adjacent land. <b>(Cost: \$151,000)</b></p>	
e.	<p>(1) TITLE AND LOCATION (City and State) <b>Colt Creek State Park Hydrologic Restoration, Southwest Florida Water Management District, Florida</b></p>	<p>(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b></p>
	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Surveyor:</b> Responsible for establishing NAD83/2007 and NAVD88 control at this site in Polk County utilizing a combination of GNSS height modernization techniques and traditional differential leveling as well as collecting topographic survey data relating to existing drainage structures and areas of proposed improvements to support AMEC engineering efforts in designing the hydrological restoration of the site. <b>(Cost: \$205,000)</b></p>	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Chris J. Lindstedt, PSM	<b>13. ROLE IN THIS CONTRACT</b> Survey, Sampling & Characterization	<b>14. YEARS EXPERIENCE</b> 20 Total / 18 Current Firm
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<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Orlando, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> B.S. Geomatics
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<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Land Surveyor, Florida No. LS6372
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**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
For the past 15 years, Mr. Lindstedt has focused his efforts on using the latest methods in Global Positioning Systems (GPS) to specialize in hydrographic surveying. His responsibilities as a registered Professional Surveyor and Mapper have included vector processing, network adjustment computations in conjunction with the Project Surveyor, and providing technical support for all GPS services, including Static, Fast-Static, RTK, and DGPS.

<b>19. Relevant Projects</b>		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
a.	<b>SFWMD Canal Conveyance Hydrographic Surveys, Florida</b> <small>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</small> <b>Project Surveyor:</b> Responsible for hydrographic surveys of 90-miles of existing canals as part of a Canal Capacity Study conducted by the District. Automated bathymetric surveys were conducted in conjunction with real-time navigation and positioning system to map canal bottoms. This was coupled with topographic surveys of banks and near shore areas to provide complete topographic coverage of the project areas. <b>(Cost: \$312,000)</b>	<b>Professional: 2008 / Construction: N/A</b>
b.	<b>SJRWMD Automated Bathymetric Surveys of Lakes Monroe and Harney, Seminole and Volusia County, Florida</b> <small>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</small> <b>Project Surveyor:</b> Responsible for performing bathymetric surveys for lakes Harney (4000 ac) and Monroe (6000ac) and connecting portions of the St. Johns River to support District Minimum Flows and Levels studies. Used Dual Frequency Echo Sounder in conjunction with GPS navigation and positioning systems to develop bottom profiles and sediment thickness maps for subsequent scientific and construction activities. Processed and delivered survey data as ESRI shape files created in ARCGIS. <b>(Cost: \$185,000)</b>	<b>Professional: 2004 / Construction: N/A</b>
c.	<b>SFWMD Hydrographic Surveys of Canal C-31, Osceola County, Florida</b> <small>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</small> <b>Project Surveyor:</b> Responsible for performing six miles of hydrographic surveys at canal C-31 to support engineering design and subsequent dredging. This effort also included detailed topographic surveys of two control structures along the route and three bridge detail surveys. <b>(Cost: \$31,000)</b>	<b>Professional: 2007/ Construction: N/A</b>
d.	<b>SJRWMD GPS Static Network, Florida</b> <small>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</small> <b>Project Surveyor:</b> Provided field supervision for this project that entailed performing a GPS Static Network across remote portions of the St. Johns River marsh in Brevard and Orange Counties in order to establish three-dimensional geodetic control and support subsequent real-time GPS data collection and mapping. <b>(Cost:\$85,000)</b>	<b>Professional: 2005/ Construction: N/A</b>
e.	<b>Chassahowitzka Springs Topographic Survey, Southwest Florida Water Management District, Citrus County, Florida</b> <small>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</small> <b>Project Surveyor:</b> Responsible for all surveying activities needed to support planning and design of new public facilities. Tasks included bathymetric survey of springs and topographic survey of adjacent land. <b>(Cost: \$151,000)</b>	<b>Professional: 2014 / Construction: N/A</b>

**E. Resumes of Key Personnel Proposed for this Contract**

12. NAME <b>Mary L. Szafraniec, PhD, PWS</b>		13. ROLE IN THIS CONTRACT <b>Survey, Sampling &amp; Characterization</b>	14. YEARS EXPERIENCE <b>12 Total / &lt;1 Current Firm</b>
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Lakeland, Florida</b>		16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Ph.D. Environmental Engineering Sciences Graduate Certificate in Wetlands Science M.S. Environmental Engineering Sciences B.S. Biology</b>	
17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Wetland Scientist #2182, 2011 FDEP BioRecon, 2004 FDEP Lake Condition Index, 2004 FDEP Boating Safety, 2004 FDEP Stream Condition Index, 2010 FDEP Lake Vegetation Index, 2013 FDEP Habitat Assessment, 2014</b>			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Mary Szafraniec's extensive ecological assessment and restoration background includes design and implementation of marine and freshwater ecological monitoring and assessments, watershed and springshed pollutant evaluation and restoration, and within-system ecological restoration such as sediment removal or inactivation, hydrologic alteration, invasive vegetation or algae removal, and native vegetation planting. Dr. Szafraniec has more than a decade of experience designing ecological studies analyzing and characterizing water quality, hydrologic regime, and biological community structure to determine the effectiveness of restoration activities and to improve the ability of resource managers to better manage impaired water resources. Her watershed and springshed approach to ecosystem restoration includes investigations of source, cycling, removal and legacy effects of nutrients to help determine cost-effective alternatives to meet TMDLs for Florida waterbodies. She recently served as one of only six springs experts at the Southwest Florida Water Management District.			
<b>19. Relevant Projects</b>			
(1) TITLE AND LOCATION (City and State) <b>Ecological Assessments of Springs: Water Quality, Water Clarity Monitoring and Assessments, Spectral Optical Model Development, and Stream Metabolism Calculations on Rainbow and Weeki Wachee Rivers, Southwest Florida Water Management District, University of Florida, Florida</b>		(2) YEAR COMPLETED <b>Professional: 2014 / Construction: N/A</b>	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <p>a. <b>Lead Scientist:</b> Responsible for designing and conducting an expansive ecological study on Rainbow and Weeki Wachee Rivers that evaluated the effects of environmental factors such as nutrients, spectral light attenuation (water clarity) and factors causing light attenuation, sediment, and velocity on submerged aquatic vegetation (SAV) and algal biomass, abundance and distribution. Optical water quality data (inherent and apparent optical properties) were collected at high spatial and temporal resolution in both systems and analyzed on a dual-beam mass spectrophotometer in the laboratory for the development and calibration of site-specific spectral light attenuation (optical) models to determine if native SAV that dominate these spring systems are light or nutrient limited. Results from the study and modeling effort revealed a minimum blue light threshold limitation for <i>Sagittaria kurziana</i>, a keystone springs SAV species, at which below the light threshold, it is unlikely the species will recruit or survive. Following extensive data analyses on the optical characteristics related to chromatic dissolved organic matter (CDOM) in the water column, results showed that the two systems receive carbon from different sources. Carbon quality investigations resulted in the finding that carbon is more labile (more readily available) in Rainbow, with a more autochthonous carbon source, and Weeki Wachee's carbon source is more allochthonous (recalcitrant or less available). The link between in-stream nutrient reduction rates and levels of carbon quality (CDOM) are suggestive of biogeochemical processes that may be controlling nutrient removal rates within these and possibly other spring systems and streams. Stream metabolism characteristics such as gross primary productivity, community respiration, and net ecosystem productivity were also measured and calculated in these two systems to establish relationships between spectral light attenuation and controls on stream metabolism.</p>			
(1) TITLE AND LOCATION (City and State) <b>Lower Hillsborough River and Sulphur Spring Recovery Strategy Implementation Projects, Florida</b>		(2) YEAR COMPLETED <b>Professional: 2014 / Construction: N/A</b>	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <p>b. <b>Task Manager and Technical Advisor:</b> Responsible for designing and conducting an ecological study on Sulphur Spring and spring-run that evaluated the effects of environmental factors such as nutrients, sediment, stream flow and velocity on submerged aquatic vegetation (SAV) and filamentous algal biomass, biovolume, abundance and distribution. Additional tasks include processing and analysis of biological samples in the laboratory and statistical data analysis. As required by statute, if the actual flow of a water course is below the proposed minimum flow or is projected to fall below the proposed minimum flow (MFL) over the next 20 years, a "recovery strategy" is developed as part of the minimum flow development process. In the case of the Lower Hillsborough River (LHR), a recovery strategy was needed. As part of the recovery strategy, and dependent on hydrologic conditions, water to help meet the MFLs for the LHR is supplied by diverting flows from Sulphur Springs to the base of the dam on the Hillsborough River. A component of the overall project was to determine the cause of ecological imbalance in Sulphur Springs run and implement a restoration project to restore aquatic habitat and remove filamentous algae in Sulphur Springs run. (Cost: \$75,000)</p>			

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Katherine Y. Deliz Quiñones, PhD	<b>13. ROLE IN THIS CONTRACT</b> Survey, Sampling & Characterization	<b>14. YEARS EXPERIENCE</b> 1 Total / 1 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Newberry, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> M.S., Ecology/Limnology B.S., Biology	

**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

Dr. Katherine Y. Deliz Quiñones has over five years of professional experience as an Environmental and Remediation Scientist, with expertise in management of water and soil resources, ecology and biogeochemistry of wetlands and soils, environmental entomology, biogeochemistry of trace metals, nutrient cycling and remediation. Her experience in these fields focus in providing lasting and integrated solutions to current and potential environmental problems and include: environmental monitoring and site assessment for aquatic and soil environments; development of water quality indices; use of aquatic entomology as a tool to evaluate ecosystem function; control of sediment and runoff; control of invasive species; effects of anthropogenic disturbances; fate and transport of toxic contaminants and their environmental impacts; pollution prevention and remediation of contaminated sites with emphasis on trace metals and nutrients; design, review and implementation of feasible, reliable and innovative management programs for restoration; and rehabilitation of contaminated soil, watersheds, surface and ground water.

**19. Relevant Projects**

<p><b>(1) TITLE AND LOCATION (City and State)</b>                  All Aboard Florida Rail Expansion Project, Miami-Dade, Broward, Palm Beach, Martin, St. Lucie, Indian River, Brevard, and Orange Counties, Florida</p>	<p><b>(2) YEAR COMPLETED</b>                  Professional: Ongoing / Construction: N/A</p>
<p><b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p><b>Environmental Scientist:</b> Dr. Deliz worked primarily as an environmental scientist and consultant addressing questions for FAA, USACE, and USCG and as a technical writer assisting in the development of the EIS according to NEPA requirements and FRA, FAA, USACE, and USCG guidelines. She also assisted in the development of a new screening analysis for the identification and selection of best alternatives for the AAF Railroad Project from Orlando to Miami, pursuing NEPA guidelines. In addition Dr. Deliz prepared a supplementary environmental impact and boat traffic impact on railroad bridges for USCG permitting, investigated vertical clearances for existing and proposed bridges, researched potential tidal influence of waterways, and determined mean and high water levels. All Aboard Florida, a subsidiary of Florida East Coast Industries (FECI), is developing a privately owned, operated, and maintained high speed passenger rail that will connect south Florida to Orlando. AMEC was selected to provide NEPA, 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. <b>(Cost: \$4.6 million)</b></p>	
<p><b>(1) TITLE AND LOCATION (City and State)</b>                  US Department of Agriculture / Natural Resources Conservation Service Wetland Restoration Plan(s) of Operations, WRP Program, Fisheating Creek Environmental Assessment (EA)</p>	<p><b>(2) YEAR COMPLETED</b>                  Professional: Ongoing / Construction: N/A</p>
<p><b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p><b>Environmental Scientist:</b> Dr. Deliz worked as an environmental scientist and consultant addressing questions for the client regarding the environmental impacts of the proposed restoration practices for the Fisheating Creek EA wetlands. She also worked as a technical writer assisting in the preparation of the Environmental Assessment Report for restoration of wetlands on the Fisheating Creek EA. The Fisheating Creek Wetland Reserve Program (WRP) project is the largest contiguous private lands project (26,225 acres) in the country involving four (4) landowners and five (5) individual tracts of land and approximately 8 miles of channelized Fisheating Creek located in Highlands County, Florida. AMEC has conducted the assessment of the ecological health and hydrologic regime of the project area. In addition to writing the EA, AMEC developed solutions for the restoration of the area to more historic conditions. To meet success criteria, AMEC has conducted surveying, modelling and a Biological Assessment of the site.</p>	
<p><b>(1) TITLE AND LOCATION (City and State)</b>                  University of Florida, Gainesville, FL/ Fate of Mercury in Contaminated Soils Treated with Aluminum Based Drinking Water Treatment Residuals (AI-WTRs)</p>	<p><b>(2) YEAR COMPLETED</b>                  Professional: 2013 / Construction: N/A</p>
<p><b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm</p> <p><b>Project Manager/Environmental Remediation Scientist:</b> Dr. Deliz worked on the development of an innovative and sustainable remediation technique using drinking water treatment residuals (WTRs) to immobilize the leachable mercury fraction of contaminated soils. In the process Dr. Deliz designed and performed laboratory experiments to evaluate the efficiency of AI-WTRs at different application rates and schemes, and analyzed the data using a combination of statistical analysis. In addition, Dr. Deliz used a combination of analytical techniques including chemical selective sequential extraction (SSE), scanning electron microscopy combined with X-ray energy dispersive spectrometer (SEM-EDS), X-ray diffraction (XRD) and X-ray photoelectron spectroscopy (XPS) to determine the physicochemical mechanisms involved in the immobilization processes and asses the long term stability of the formed Hg-WTR complexes. This data was used to determine the long term efficiency of the treatment and best management practices for treated soils. Two peer review publications have been submitted from this project and a third publication is expected shortly.</p>	

E. Resumes of Key Personnel Proposed for this Contract

12. NAME <b>William A. Tucker, PhD</b>	13. ROLE IN THIS CONTRACT <b>Survey, Sampling &amp; Characterization</b>	14. YEARS EXPERIENCE <b>39 Total / 30 Current Firm</b>
15. FIRM NAME AND LOCATION (City and State) <b>AMEC, Newberry, Florida</b>	16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Doctor of Philosophy, Ocean Science, University of Michigan</b> <b>Master of Science, Ocean Science, University of Michigan</b> <b>Bachelor of Science, Physics, West Virginia University</b>	

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Dr. William Tucker is a Senior Principal Scientist with more than three decades of experience in the assessment of risk from environmental contamination. In evaluating the fate and transport of toxic chemicals in environmental systems, Dr. Tucker's expertise has encompassed soils, air, surface water, sediments, terrestrial and aquatic biota, and groundwater media. He has applied this expertise to exposure and risk assessment of contaminated sites, especially Superfund sites and petroleum-contaminated sites. Dr. Tucker has managed complex projects exceeding \$1 million, including remedial response planning (CERCLA), estuarine monitoring programs involving a major field bioaccumulation study, wetland restoration and water quality analysis projects, and compliance support. He has developed, verified and applied contaminant fate and transport models of multimedia systems, including soil / groundwater and air / surface water models.

19. Relevant Projects

	(1) TITLE AND LOCATION (City and State) <b>Bay Lake, Lake Christie, Lake Condel, and Lake Gandy Watershed and Water Quality Evaluations, Orange County, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2012 / Construction: N/A</b>
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Senior Principal Scientist:</b> Responsible for overall project QA/QC, and model loading review and consultation. Scope: AMEC was hired by Orange County Environmental Protection Division (OCEPD) under four individual contracts to develop a basin and water quality evaluation for each lake, and to provide recommendations for future BMP installations. Work efforts performed for basin evaluations included subbasin delineations and drainage basin characterizations. Factors such as size, impervious surface, soil characteristics and existing drainage infrastructure were taken into account, and used to develop hydrologic and nutrient loading estimates to the lake, including annual runoff inputs of phosphorus, nitrogen and TSS. The nutrient and hydrologic budgets were used to develop nutrient limitation water quality models for the lakes, as well as to isolate areas within the drainage basin that were contributing most to the impairment. Based on these results, various combinations of BMP alternatives were recommended for each subbasin. BMP alternatives were evaluated based on cost, nutrient removal capacity, and ease of implementation. <b>(Cost: \$316,230)</b>	
b.	(1) TITLE AND LOCATION (City and State) <b>City of Naples Stormwater Lakes Quality Assessment, Naples, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2014 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Project planning, resource management, and technical review. Scope included monitoring of stormwater conveyances, stormwater lakes, source identification, and stormwater loading model development. Stormwater lakes were prioritized for potential improvement for amenity values and stormwater treatment. <b>Scope:</b> AMEC has been under several contracts with the City of Naples since 2009 to perform water quality monitoring and assessment of their 27 publicly owned stormwater lakes. Impairment of receiving waters for bacteria, dissolved oxygen and metals has caused the City to take a pro-active approach to improving the quality of the stormwater discharged from the highly developed City watershed. AMEC has assisted in water quality improvement efforts through regular water quality monitoring, tracking of "hotspot" pollutant sources, analysis of reclaimed water system and end-user practices, and development of a City-specific ranking index for each of the 27 stormwater lakes based on a number of factors including existing water quality, calculated pollutant loadings to the lakes, calculated pollutant loading from the lake to downstream waterbodies, lake morphology and pollutant removal capacity. The ranking index is continually being refined based on ongoing monitoring, and is being used to target upcoming BMP implementations to those areas that would result in the most cost effective pollutant reduction. AMEC was recently awarded a directly related project to restore one of the city's lakes by dredging contaminated sediments, wetland plantings and lakeshore public amenities. <b>(Cost: &gt; \$200,000)</b>	
c.	(1) TITLE AND LOCATION (City and State) <b>Wekiva River Basin and Floridan Aquifer, Nitrate Sourcing Study, St. Johns River Water Management District, Apopka, Florida</b>	(2) YEAR COMPLETED <b>2012</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Estimation of all sources of nitrate to waters of the basin, including ground and surface water. Estimates were based on extensive technical literature review, model development and application using GIS, and installation and monitoring of 30 wells in residential areas. Study area covers 820,000 acres within five-county area. <b>(Cost: \$249,661)</b>	
d.	(1) TITLE AND LOCATION (City and State) <b>Chassahowitzka Headspring Restoration Project, Homosassa, Florida</b>	(2) YEAR COMPLETED <b>Professional: 2009 / Construction: N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principal Scientist:</b> This project consists of design and permitting for the dredging of the Chassahowitzka Headspring in Citrus County. Evaluated chemical and physical test data for the proposed dredged material; consultation and review of toxicity testing requirements; reviewed results from toxicity tests; evaluated polymer dosing rate to meet discharge requirements for Outstanding Florida Waters; reviewed dredging operations water quality monitoring plan; designed and reviewed bench scale polymer dosing tests; coordinated with Florida Department of Environmental Protection (FDEP) to define the scope of testing required to demonstrate feasibility of beneficial re-use of dredged material, reviewed and interpreted test results and submitted same to FDEP.	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Brian Hathaway, PE	<b>13. ROLE IN THIS CONTRACT</b> Survey, Sampling & Characterization	<b>14. YEARS EXPERIENCE</b> 14 Total / 13 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, West Palm Beach, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Master of Engineering, Civil Engineering BS, Civil Engineering	

**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**

Professional Engineer, Florida No. 60724  
 ACI, Field Technician, Concrete, Florida  
 ACI Lab Testing, Strength Testing Technician, Concrete, Florida  
 Certified Diver, Florida  
 Certified Pile Dynamic Analysis User, Intermediate, Pile Driving Installation, Florida  
 FL DOT CTQP Certified, Field Technician, Earthwork Construction  
 FL DOT CTQP Limerock Bearing Ratio, Laboratory Technician, Aggregate

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

Mr. Hathaway is a licensed Professional Engineer with over 14 years of professional experience with primary emphasis in Geo/Civil Engineering, subsurface exploration techniques, site characterization, Construction Engineering Inspections (CEI), QA/QC Construction Materials and laboratory testing (CMT), heavy civil construction, and Construction Management disciplines. Mr. Hathaway has managed and provided professional engineering services for various geotechnical and engineered construction related projects throughout Florida, Alabama, and Georgia. These projects have ranged from residential structures, commercial developments to state roadways, highways and bridges, office buildings, new schools and facilities improvements, hospitality structures, tower structures, parking garages, marine and port facilities, power and process facilities, heavy civil construction, stormwater drainage, earthen impoundment structures, filter marshes and wetland restorations, park facilities, and landfills. The services provided by Mr. Hathaway involve all aspects of the project lifecycle including scope development, cost estimating, subcontractor selection, project management, resource management, planning, execution, cost controls, scheduling, risk assessment, contract reviews, engineering analysis, design, and reporting. **Involved with Section F Projects: 3 and 8.**

**19. Relevant Projects**

	(2) YEAR COMPLETED
<p>(1) TITLE AND LOCATION (City and State)  <b>Geotechnical Engineering and Laboratory Services Contract, City of Fort Lauderdale, Florida</b></p> <p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  <b>Contract Manager/Senior Geotechnical Engineer:</b> AMEC was selected by the City of Fort Lauderdale as a professional consultant to provide geotechnical, construction materials, and laboratory testing services. The projects performed under this contract are performed on a task work order basis. Responsibilities include contract and Task Order Project Management, subcontractor selection, technical lead during field and testing services, engineering evaluations and technical reporting. The services provided under this contract consist of site exploration studies, geotechnical engineering design, laboratory testing services, construction inspection, materials testing and construction quality control (QC) and quality assurance (QA). AMEC's primary role is to act as an extension to the City's available staff and resources. Under this task order contract, AMEC provides engineering and construction support services for the City's work programs. The projects consist of site development for building structures and facility upgrades, roadways, sidewalks and streetscape improvements, bridge structures, drainage systems, utilities, and airport facilities.</p>	Professional: 2012 / Construction: N/A
<p>(1) TITLE AND LOCATION (City and State)  <b>Wharves Strengthening Program, (Wharves I to VII), HDR and Port of Miami, Florida</b></p> <p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  <b>Senior Geotechnical Engineer/Project Manager:</b> AMEC teamed with HDR as the geotechnical engineer-of-record (EOR) responsible for the development of design alternatives and analyses for the Port of Miami's Wharf Strengthening Program. The dredging improvements program demanded structural integrity review of the current cargo bulkhead capacity and the stability evaluation following the future dredge of Wharves I through VII (more than 6,000 linear feet of bulkhead) located adjacent to the South Ship Channel (Fisherman's Channel). AMEC performed 18 soil/rock core borings to depths up to 110 feet and dilatometer (DMT) insitu testing in order to develop site characterization for foundation stability analysis and design. Laboratory classification, index and strength tests were performed on recovered soil/rock samples. Geotechnical evaluations included lateral stability analysis and axial capacities for various deep foundation systems (prestressed concrete piles, steel pipe piles, augercast-in-place piling, drilled caissons, and soil and rock tie back anchors). The results of our analysis were presented in an engineering design report. Responsibilities included project management, geotechnical lead, resource management, and serving as technical supervisor during field and laboratory services, engineering analyses, and reporting. <b>(Cost: \$303,462)</b></p>	Professional: 2013 / Construction: N/A
<p>(1) TITLE AND LOCATION (City and State)  <b>South Lake Conine Watershed Restoration and Stormwater Treatment Services, Winter Park, Florida</b></p> <p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  <b>Principal Geotechnical Engineer:</b> Responsible for the geotechnical scope development, proposal preparation, and management of the geotechnical design services. Performed field exploration services, was technical lead of laboratory studies, site characterization and responsible for the development of engineering design parameters. Performed engineering design analysis inclusive slope stability, settlement, and erosion control and prepared an engineering design report with construction recommendations for the performance of nearly 7,000 lf of earthen embankments, two stormwater ponds, five filter marshes, six overflow weir structures, and one pavement access area constructed over organic soils and fibrous peat. Overall project included the design and permitting services for development / restoration of <b>(Cost: \$218,000)</b></p>	Professional: 2012 / Construction: N/A

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Kyle Compton	<b>13. ROLE IN THIS CONTRACT</b> Survey, Sampling & Characterization	<b>14. YEARS EXPERIENCE</b> 8 Total / 8 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> A.S., Architectural Design & Construction Technology	

**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**  
Stormwater Management Inspector #18538

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

Mr. Kyle Compton serves as a Senior Environmental Technician within AMEC's Environmental group. He is responsible for FDEP Standard Operating Procedures (SOP) surface water discharge sampling, groundwater sampling, and water quality data analysis. Mr. Compton performs field inspections, wildlife and fish surveys, construction monitoring, biological monitoring, drilling and soil classifications, and database management and reporting for several ongoing remediation and reclamation projects. Mr. Compton also assists in subsidence investigations, grouting and monitoring for subsidence stabilization.

Mr. Compton is proficient with the following technical resources and equipment: various electronic submersible pumps, peristaltic pumps, electric water level indicators, YSI 556 multi-parameter meter, turbidity meters, piston tube samplers, Ponar mini dredge, hand augers, cone penetrometer, GPS (hand-held and TRIMBLE), Laser Level and Total Station survey equipment, Secchi disks, Ground Penetrating Radar (GPR), Electro-Fisher and boats with depth finders.

**19. Relevant Projects**

a.	<b>(1) TITLE AND LOCATION (City and State)</b> Lake Beauclair Aquatic Enhancement, Tavares, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2013 / Construction: Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Senior Field Technician: Performed manual bathymetry on shallow lake. Monitored bald eagle nests and activity prior to dredging operations. Performed dredge operation oversight and water quality monitoring during operations. (Cost: \$10 million)	
b.	<b>(1) TITLE AND LOCATION (City and State)</b> Exxon-Mobil Land Management, Mulberry, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2012 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Field Technician: Performed routine environmental monitoring with tasks including groundwater, surface water, wetland monitoring and maintenance, and field inspections.	
c.	<b>(1) TITLE AND LOCATION (City and State)</b> Gilshey Branch Stream and Wetland Design, Polk County, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2012 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Field Technician: Performed construction monitoring, wetland revegetation maintenance, and wildlife surveys to include gopher tortoise and kestrels. (Cost: \$65,000)	
d.	<b>(1) TITLE AND LOCATION (City and State)</b> Chemical Plant Site Rehabilitation and Closure, Polk County, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Field Technician: Performed monitoring compliance at surface water and groundwater locations.	
e.	<b>(1) TITLE AND LOCATION (City and State)</b> Greenbay Chemical Plant, Mosaic Fertilizer, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Field Technician: Monitored compliance at surface water and groundwater locations. (Cost: \$98,000)	
f.	<b>(1) TITLE AND LOCATION (City and State)</b> Wingate Mine Sampling, Mosaic Fertilizer, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Field Technician: Performed water quality compliance monitoring of an on-site pond at the Wingate phosphate mine prior to and following pond discharge. Measured criteria included total phosphorus levels, dissolved oxygen, conductivity, pH, and temperature.	
g.	<b>(1) TITLE AND LOCATION (City and State)</b> Reclaimed Phosphatic Clay Settling Area, Florida Institute of Phosphate Research, Central/Northern, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2006 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Field Technician: Monitored groundwater wells for research purposes and maintained FDEP SOP compliance.	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Leon Seale, III, PE	<b>13. ROLE IN THIS CONTRACT</b> Dredge Design	<b>14. YEARS EXPERIENCE</b> 32 Total / 8 Current Firm
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<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Lakeland, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> B.S. Mineral Engineering
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**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**  
Professional Engineer, Florida No. 72344, MSHA

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**  
Mr. Leon Seale is a Professional Engineer registered in the state of Florida, and has 25 years of experience in the areas of process engineering, extractive metallurgy, and operations management in the phosphate mining industry, followed by 8 years of industry support in a consulting capacity. His background includes plant operations and cost management, maintenance planning and coordination, plant process development and optimization, and reclamation planning. Mr. Seale also has strong and varied computer experience including application development, database management, and statistical analysis and design related to process modeling and control. In addition, Mr. Seale has performed numerous dredge and disposal system studies related to both phosphatic clays and lake restoration, with progression to project design, development, and implementation.

**19. Relevant Projects**

	<b>(1) TITLE AND LOCATION (City and State)</b> Lake Beauclair Aquatic Enhancement, Tavares, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2013/Construction: N/A
a.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Design Engineer:</b> Responsible for preliminary to final dredge and transport system design including volumetric analysis, dredge type and rate modeling, dredged slurry transport system design to include pipe size and routing logistics, power requirements and spacing for the removal of approximately 1.35 million cubic yards of sediment. Evaluated sediment, dewatering and disposal design options including mechanical, chemical, physical, and passive methodologies, and evaluated sediment disposal design based upon sediment settling properties and detailed mass and material balance calculations. Managed the two-year construction/dredging and disposal operations of the project to completion. <b>(Cost: \$420,000)</b>	
	<b>(1) TITLE AND LOCATION (City and State)</b> Ringling Bros. Barnum & Bailey Center for Elephant Conservation, Polk City, Florida	<b>(2) YEAR COMPLETED</b> Ongoing
b.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Monitor, sample, and analyze surface water and groundwater for FDEP permit compliance. Prepare quarterly, semi-annual, and annual discharge and groundwater monitoring reports for submission to FDEP. Prepare and update permit renewal applications, and periodically update Best Management Practices and Emergency Contingency Plans. <b>(Cost: Varies per task – estimated \$35,000 annually).</b>	
	<b>(1) TITLE AND LOCATION (City and State)</b> Lake Rowell Aquatic Enhancement, Bradford County, Florida	<b>(2) YEAR COMPLETED</b> 2009
c.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Co-Project Manager:</b> Responsible for managing the lake sediment and elutriate analysis review and treatment evaluation, sediment characterization and overall components material balance, sediment dewatering process evaluation, and disposal system design for the removal of approximately 1.5 million cubic yards of sediment to restore the aquatic habitat of Lake Rowell. <b>(Cost: \$150,000)</b>	
	<b>(1) TITLE AND LOCATION (City and State)</b> Lake Seminole Sediment Removal Project, Pinellas County, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
d.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Engineer:</b> Assisted with the evaluation, design, and permitting aspects of a project designated to remove and dispose of nearly 1,000,000 cubic yards of sediment from within Lake Seminole. The project included monitoring and evaluation of the existing surface and groundwater quality in and around the former landfill as well as an assessment of the potential impacts to the groundwater dynamics of the site associated with loading of the former landfill cell with dredged sediments. <b>(Cost: \$850,000)</b>	
	<b>(1) TITLE AND LOCATION (City and State)</b> Surface Water Discharge and Groundwater Compliance Monitoring, Dam Inspection, and General Engineering Support, Polk County, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing
e.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Monitor, sample, and analyze surface water and groundwater for Florida Department of Environmental Protection (FDEP) permit compliance. Prepare monthly, quarterly, and annual discharge and groundwater monitor reports for submission to FDEP. Prepare and update permit renewal applications, annual phosphogypsum stack operating and contingency plans, and periodically update Best Management Practice (BMP) plans, and oversee weekly and annual dam inspections. Provide general engineering support and monitoring of phosphate mining on leased property. <b>(Cost: \$250,000 annually)</b>	
	<b>(1) TITLE AND LOCATION (City and State)</b> Chassahowitzka Springhead Restoration, Homosassa, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2014 / Construction: N/A
f.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Design Engineer:</b> Performed dredging feasibility assessment and prepared preliminary design report for design, permitting, construction, and dredging management services under a master engineering services contract for the removal of 3,000 cubic yards of sediment and woody debris from the Chassahowitzka headspring.	



**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Charlene Stroehlen, PE	<b>13. ROLE IN THIS CONTRACT</b> Dredge Design	<b>14. YEARS EXPERIENCE</b> 34 Total / 5 Current Firm
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Newberry, Florida	<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> M.B.A. Business Administration B.S. Mining Engineering	

**17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)**  
Professional Engineer, Florida No. 58774

**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

Ms. Stroehlen is a Senior Associate Engineer with professional experience in wetland restoration design; environmental resource permitting; wetland water budget modeling; construction bid package plans and specifications; preparation and construction management; stormwater treatment design; pumping system design; permitting with Hillsborough County, SWFWMD, FDEP, Florida Department of Transportation (FDOT) and U.S. Army Corps of Engineers (USACE), and surface water modeling. 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.

**19. Relevant Projects**

a.	<b>(1) TITLE AND LOCATION (City and State)</b> NRCS Wetlands Reserve Program Fisheating Creek Site, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> The Fisheating Creek Wetland Reserve Program (WRP) project is the largest contiguous private lands project (26,225 acres) in the country involving four landowners and five individual tracts of land and approximately 8 miles of channelized Fisheating Creek located in Highlands County, Florida. AMEC has conducted assessment of the ecological health and hydrologic regime of the project area. AMEC is developing solutions for restoration of the area to a more historic condition. To meet success criteria, AMEC has conducted surveying, modeling and a biological assessment of the site. Modeling includes development of an existing model and three alternatives. <b>(Cost: \$1.4 million)</b>	
b.	<b>(1) TITLE AND LOCATION (City and State)</b> Dredging and Bank Stabilization Services for East Central Region Canal Conveyance Capacity Program, Various East Region Locations, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principal:</b> 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.	
d.	<b>(1) TITLE AND LOCATION (City and State)</b> Jack Creek Hydrologic and Wetland Restoration, Sebring, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2012 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Responsible for development of hydrologic restoration of the SWFWMD Jack Creek preserve. This project included ground water modeling, engineering design of a rehydration system, construction bid documents and permitting. This project consists of design and permitting for the hydrologic and natural systems restoration of impacted wetlands on the Jack Creek Tract. <b>(Cost: \$205,000)</b>	
e.	<b>(1) TITLE AND LOCATION (City and State)</b> FEMA Flood Mapping Updates Peer Review, Southwest Florida Water Management District, Florida	<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> Technical peer review of updated FEMA floodplain mapping performed by other consultants for SWFWMD. The project included technical review of hydrologic, hydraulic, and percolation models for multiple thousand-acre watersheds. Currently thirteen watersheds have been reviewed and the project is still ongoing. Oversaw third party GIS and ICPR ground water and surface water modeling review of FEMA floodplain models. Reviewed input parameters and output results for reasonability and developed a geodatabase identifying areas of concern, for tracking results. <b>(Cost: \$336,000)</b>	
f.	<b>(1) TITLE AND LOCATION (City and State)</b> Chassahowitzka Springhead Restoration, Homosassa, Florida	<b>(2) YEAR COMPLETED</b> Professional: 2014 / Construction: N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Manager:</b> This project consisted 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 from the spring head. Also permitted the dredging activities and oversaw construction.	

**E. Resumes of Key Personnel Proposed for this Contract**

<b>12. NAME</b> Gregory W. Corning, EIT			<b>13. ROLE IN THIS CONTRACT</b> Dredge Design		<b>14. YEARS EXPERIENCE</b> 4 Total / 4 Current Firm	
<b>15. FIRM NAME AND LOCATION (City and State)</b> AMEC, Miami, Florida			<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Bachelor of Civil Engineering			
<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Engineer-in-Training, Florida No. 1100014080						
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> As a Staff Engineer, Mr. 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.						
<b>19. Relevant Projects</b>						
a.	<b>(1) TITLE AND LOCATION (City and State)</b> Florida Department of Environmental Protection, Ichetucknee Trace Mining Reclamation and State Park Design, Lake City, Florida			<b>(2) YEAR COMPLETED</b> Professional: 2007 / Construction: 2007		
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Staff 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 FDEP. (Cost: \$687,490)					
b.	<b>(1) TITLE AND LOCATION (City and State)</b> Marjorie Harris Carr Cross Florida Withlacoochee Bay Trail, O'Steen Brothers, Inc., Inglis, Florida			<b>(2) YEAR COMPLETED</b> Professional: 2012 / Construction: 2012		
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Staff Engineer: Assisted with the engineering and design of the stormwater system and construction drawings. Prepared the permit applications, technical specifications, and bid specifications. The project involved engineering design, permitting, and construction services for the installation of the Marjorie Harris Carr Cross Florida Greenway Withlacoochee Bay Trail. The project area, approximately 25-acres, included 3.2 miles of a 12 foot wide paved trail. An adjustable drop structure with headwall and 70 linear feet of 24-inch reinforced concrete pipe with a TF-1 TideFlex at the outlet to prevent backflow, 60 linear feet of 14-inch x 23-inch elliptical concrete pipe with mitered end sections, and 20 linear feet of 18-inch reinforced concrete pipe with mitered end sections. (Cost: \$122,485)					
c.	<b>(1) TITLE AND LOCATION (City and State)</b> City of Lakeland Master Services Agreement for Lakes and Watershed Management, Lakeland, Florida			<b>(2) YEAR COMPLETED</b> Professional: 2012 / Construction: 2012		
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer: Used AutoCAD 2009 to design construction plans for permitting/construction. Pulled together ERP permit application information which required the use of GIS. Assisted with creating a cost estimate for bid process. 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. (Cost: \$316,234)					
d.	<b>(1) TITLE AND LOCATION (City and State)</b> South Lake Conine Watershed Restoration and Stormwater Treatment Services, Winter Park, Florida			<b>(2) YEAR COMPLETED</b> Professional: 2013 / Construction: 2013		
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm CAD Designer: Assisted with the design of the land use areas within the aforementioned project. Also assisted with creating cross-sections of the proposed turn lane for the aforementioned project. Design and permitting services for development / restoration of watershed facilities on 34-acre, city-owned lakefront parcel. Lake impaired with nutrient TMDL. Design includes regional stormwater pond and treatment train, finishing with polishing wetland before discharge into lake; design intended to improve lake water quality via nutrient load reductions. Design effort included wetlands delineation / assessments, geotechnical investigations, boundary and topographic survey, watershed modeling, stormwater pollutant load modeling, stormwater treatment train design, and park design. Services also included bidding and construction services and post-construction water quality monitoring. (Cost: \$218,160)					
e.	<b>(1) TITLE AND LOCATION (City and State)</b> All Aboard Florida Highspeed Rail Environmental Permitting and Civil Engineering Services, Florida East Coast Industries, Florida			<b>(2) YEAR COMPLETED</b> Professional: Ongoing / Construction: N/A		
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Staff Engineer: Assisted in preparing federal permits for a high speed railway. 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. (Cost: Confidential)					

**F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract** Project No. 1

<b>21. TITLE AND LOCATION (CITY AND STATE)</b>		<b>22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)</b>
Lake Seminole Sediment Removal, Pinellas County, Florida		Ongoing
<b>23. PROJECT OWNER'S INFORMATION</b>		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
Pinellas County, Florida	Kelli Hammer Levy, CPM	727.464.4425
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)</b>		

Lake Seminole is a highly eutrophic lake located in Pinellas County, Florida, that is currently listed by FDEP and the EPA as an impaired waterbody pursuant to Section 393(d) of the federal Clean Water Act. The pollutants are nutrients (primarily phosphorus forms) that are present in elevated forms in water column and sediments.

This shallow, 684-acre, fresh water lake has been negatively impacted by nuisance sediments that impair water quality, cause habitat degradation, and impede recreational uses. The Lake Seminole Watershed Management Plan (2001) and The Lake Seminole Reasonable Assurance Plan (2007) recognize that the organic sediments are linked to the lake's nutrient-related impairment. The lake's approximately 3,500-acre watershed is highly urbanized, with commercial and residential land uses comprising most of the land service.

Prior to the mid-1940s Lake Seminole was an estuarine waterbody. It was converted to a freshwater system by the construction of a roadway which acted as a dam. This construction altered the lake's salinity regime from brackish to fresh, and the construction of the dam and several additional hydrologic modifications in the watershed have substantially reduced its flushing rate and increased its hydraulic residence time. The lake has also received discharges of untreated or minimally treated stormwater runoff from a variety of urban land uses for decades.



AMEC was retained in 2010 to provide professional environmental and engineering services requisite to the development of the Lake Seminole Dredging Project to remove approximately 1 million cubic yards of sediments from the lake. AMEC is providing assistance with the engineering, analytical, design, permitting, and administrative support services associated with the removal, processing, and disposal of the nuisance, nutrient rich sediments from within the lake.

AMEC's task assignments associated with this project, and currently in progress, include:

- Bathymetric and sediment surveys
- Physical, nutrient, and chemical characterizations of the sediment including moisture content and wet sieve analysis, specific gravity test, and total organic content analysis
- Geophysical and geotechnical site investigations
- Dredging and process design including prioritization of sediment laden areas; evaluation of sediment characteristics, volumes and material balance; and dredge and pumping system design
- Disposal area and structural foundation design
- Storm and sediment water management design
- Project plans/Design report
- Permitting including agency communication and coordination; ERP permit applications; and permit RAI responses
- Public outreach
- Construction operations oversight and technical guidance

**Key Staff:**

Walter Reigner, PE, CPESC	Timothy Kelly, PE, CPSWQ, CPESC
Scott Wuitschick, PE	Leon Seale, PE
Kevin Shelton, GTA	Michael Kelley, PE

**Project Cost:** \$850,000

<b>25. Firms From Section C Involved With This Project</b>
1. Firm Name / 2. Firm Location / 3. Role
▪ AMEC / Lakeland / Civil Engineering, Stormwater and Stormwater Utilities

F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract		Project No. 2
21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)
Tampa Waterway Management Projects, Tampa, Florida		Ongoing / Ongoing
23. PROJECT OWNER'S INFORMATION		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
City of Tampa	Ben Koplín, Environmental Specialist	813.274.8371
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)		

AMEC was retained to provide professional engineering services in support of the City of Tampa's waterway management projects. This special assessment program includes design of dredging projects at various locations throughout the City including but not limited to the Westshore area and Davis Islands. The projects are partially funded by the United State Environmental Protection Agency (EPA) thereby requiring a substantial environmental enhancement element. Individual projects will typically be performed in three phases: project delineation and survey, preliminary design and permitting, and plans preparation and construction support services.

Tasks included:

- Document preparation for compliance with the National Environmental Policy Act (NEPA)
- Preparation of an Environmental Impact Document (EID) in accordance with EPA Section 40 CFR 31.36
- Survey of the existing conditions
- Development of proposed dredging plans
- Exploration of alternative dredging methods/scenarios
- Identification and permitting of spoil disposal
- Methods and mechanisms to improve water circulation
- Estimates of project costs
- Development of design criteria for City or agency approval
- Public meetings and workshops
- Coordination with permitting agencies
- Construction plan production
- Project permitting
- Construction staging



AMEC has delineated and inventoried areas that currently do not meet the desired level of service of at least 3 feet of clearance at Mean Low Water (MLW) level within 15 canals in the Westshore area in order to apportion costs and facilitate volumetric calculations. AMEC has identified disposal sites suitable for NEPA and SWFWMD co-funding.

**Key Staff:**

Walter Reigner, PE, CPESC  
 David Butcher, PE, LEED AP  
 Scott Wuitschick, PE  
 Les Bromwell, ScD, PE  
 Carl Christmann, PE  
 John Kiefer, PhD, PE, PWS  
 Leon Seale, PE  
 Kevin Shelton, GTA  
 Aziza Baan, GISP  
 Mark Jones

**Project Cost:**

Engineering: \$615,000

25. Firms From Section C Involved With This Project
1. Firm Name / 2. Firm Location / 3. Role
▪ AMEC / Tampa, Lakeland, Florida / General Engineering Consultant

F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract		Project No. 3
21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)
Lake Hollingsworth Restoration Project Lakeland, Florida		2001 / 2001
23. PROJECT OWNER'S INFORMATION		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
City of Lakeland	Richard Lilyquist, PE – Director of Public Works	863.834.6040
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)		

Lake Hollingsworth is a 350-acre urban lake located in the City of Lakeland, Florida. The lake is a popular recreational area for city and county residents but suffered from sediment accumulation and poor water quality.

In 1996, AMEC was retained by the City of Lakeland Public Works Department to develop plans and provide CEI services for the removal of organic sediments that covered approximately 75 percent of the lake bottom. Muck deposits ranged in thickness from one foot to more than twenty feet.

Elements of the project involved the permitting and removal of 3.6 million cubic yards of sediment. Materials handling, location of sufficient spoil areas, and dewatering were major challenges for the project team.

Several key elements of the project included the development and design of flocculation methods, disposal area specifications and dredging. Prior to the start up of full scale operations, a pilot project was conducted to test new dewatering methodologies.

Original disposal plans were redesigned and enlarged due to unusually heavy precipitation (El Niño) in 1997 and 1998. As a result, dredge spoil was pumped a distance of five miles via an 18-inch diameter Plexco pipeline that was installed through the Cleveland Heights Golf Course.

The dredge was constructed to meet the requirements and construction constraints of the project. It was equipped with GPS equipment that allowed accurate positioning within the lake. Final cost for sediment removal at Lake Hollingsworth was approximately \$4 per cubic yard. Major grants from the U.S. Environmental Protection Agency (EPA) and Southwest Florida Water Management District (SWFWMD) were obtained to assist in project funding.

The EPA awarded AMEC \$3 million in grants to test the state-of-the-art dewatering technique.

**Key Staff:**

- Walter Reigner, PE, CPESC
- John Kiefer, PhD, PE, PWS
- Timothy Kelly, PE, CPSWQ, CPESC
- Mark Jones

**Project Cost:**

- Engineering: \$600,000
- Construction: \$10 million



25. Firms From Section C Involved With This Project
1. Firm Name / 2. Firm Location / 3. Role
<ul style="list-style-type: none"> <li>■ AMEC / Lakeland, Florida / Lake Restoration</li> </ul>

F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract Project No. 4

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)
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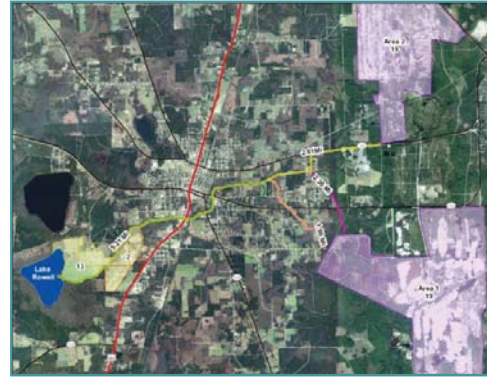
Lake Rowell Aquatic Enhancement, Bradford County, Florida	2009 / N/A
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23. PROJECT OWNER'S INFORMATION

a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
Florida Fish and Wildlife Conservation Commission	Bruce Jagers - Biological Scientist	352.357.2398

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)

AMEC provided engineering design support for the removal of approximately 1.5 million cubic yards of sediment to restore the aquatic habitat of Lake Rowell on behalf of the Florida Fish and Wildlife Conservation Commission (FWC). The lake's popular fishery and avifaunal habitats have been adversely affected by artificially accumulated fibrous organic sediments and muck. The sediments, derived largely from previous human-induced nutrient sources, have created excessive internal nutrient cycling that supports nuisance algal blooms and dense rafts of nuisance exotic vegetation (*hydrilla*) that limit native vegetation growth. The sediment condition of the lake is now affecting Lake Sampson immediately downstream, causing detrimental grass formation.



AMEC performed tasks included:

- Preliminary dredge designed to demonstrate a few alternatives most likely to meet the objectives of the project and meet permitting requirements
- Data collection and review to include reports, maps, aerial photographs, design plans, etc.
- Sediment assessment, characterization and testing to facilitate cost-effective restoration design
- Determination of sediment volume increase and the settling and dewatering characteristics of sediments
- Assisted FWC with selection of dredge material disposal site alternatives based on environmental impacts, groundwater, wetlands, proximity to public resources, safety, site access, pipeline routes to dredge site, ease of construction, costs and schedule
- Cost estimates for three alternatives
- Preliminary Basis of Design Booklet
- Preliminary project plans

Preliminary regulatory consultation was initiated as part of this project, and alternative containment site evaluations included outreach to a variety of landholders and initiating dialogue with property owners and stakeholders on the potential beneficial use of sediments specific to each property.

**Key Staff:**

Walter Reigner, PE, CPESC	Leon Seale, PE
Les Bromwell, ScD, PE	John Kiefer PhD, PE, PWS
Timothy Howard	Aziza Baan
Carl Christmann, PE	Jie Gao, PE, CFM

**Project Cost:**  
\$150,000

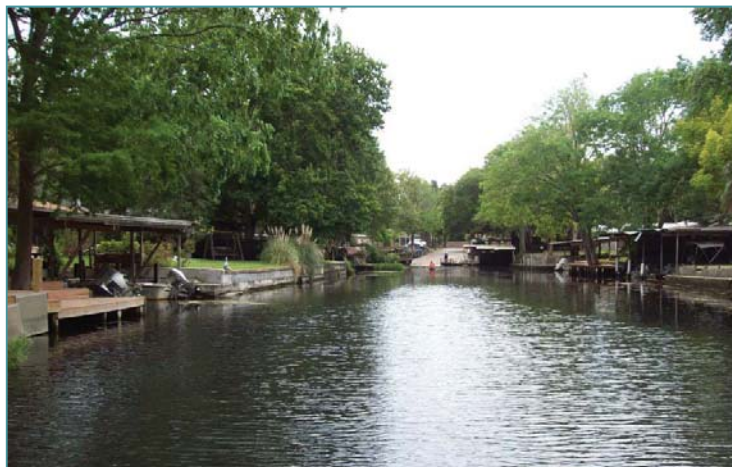
25. Firms From Section C Involved With This Project

1. Firm Name / 2. Firm Location / 3. Role
AMEC / Lakeland, Florida / Engineering design support, dredge design & sediment characterization

F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract		Project No. 5
21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)
Chassahowitzka River Springhead Restoration, Citrus County, Florida		2009 / N/A
23. PROJECT OWNER'S INFORMATION		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
Citrus County Public Works	Larry Brock, Operations & Projects Officer	352.527.5202
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)		

AMEC is providing a dredging feasibility assessment, design and permitting, construction, and dredging management services under our master engineering services contract for the removal of 3,000 cubic yards of sediments and woody debris from the Chassahowitzka headspring.

Chassahowitzka Spring is a first-magnitude springs complex that feeds the Chassahowitzka River, a designated Outstanding Florida Waterway, famous regionally as a passive recreational destination. The majority of the Chassahowitzka River system is publicly-owned. Approximately 3,000 cubic yards of sediment have accumulated in and around the headspring, significantly reducing flow volume and visibility. Removal of these sediments will improve water quality within the Chassahowitzka headspring and near downstream area. Dredging soft sediments will provide a suitable substrate for the establishment and regeneration of desirable submerged aquatic vegetation and improve aquatic habitat.



The dredging design plan must have few to no restrictions on public access, boat launching, and navigation, and must also limit impacts to manatee feeding and migration. Specific AMEC project tasks include:

- Detailed site assessment including sediment surveys and dredging plan involving sediment core sampling using piston-tube sampler, estimate of removal volume, and sediment characterization and contaminant assessments
- Design and permitting of sediment removal including utility location and identification of sediment disposal area options
- Design and permitting of Best Management Practices (BMPs) to be implemented within the canals upstream of the headspring
- Public education plan to reduce pollutants within the canals and headspring
- Dredging and construction technical specifications
- Engineering cost estimate
- Construction/dredging management

**Key Staff:**

Walter Reigner, PE, CPESC	R.Michael Jones, PLS, CFedS
Carl Christmann, PE	Chris Lindstedt, PSM
Leon Seale, PE	Charles Gardiner, PLS, CFedS
Pavan Kolukula, EI	William Tucker, PhD
Charlene Stroehlen, PE	

**Project Cost:**

\$49,000

25. Firms From Section C Involved With This Project
1. Firm Name / 2. Firm Location / 3. Role
<ul style="list-style-type: none"> <li>▪ AMEC / Lakeland, Florida / Dredging feasibility assessment, design &amp; permitting, construction, &amp; dredging management</li> </ul>

**F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract**

**Project No. 6**

<b>21. TITLE AND LOCATION (CITY AND STATE)</b>		<b>22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)</b>
Lake Griffin Canal Dredging and Eustis Muck Farm Wetland Restoration, Leesburg, Florida		2004 / 2008
<b>23. PROJECT OWNER'S INFORMATION</b>		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
Lake County Water Authority	Ron Hart – Water Resources Manager	352.343.3777
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)</b>		

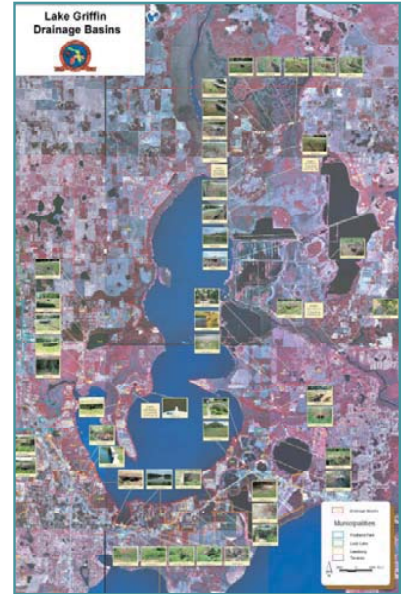
Lake Griffin is a 9,300-acre lake at the headwaters of the Ocklawaha River in Lake County, Florida. AMEC provided evaluation, design, and construction support services of a project to remove sediments from more than 30 canals ringing the lake and to place those sediments in a confined section of a subsided muck farm in order to restore wetlands.

This project required AMEC's expertise in:

- Water resource engineering (disposal site impoundment water budget)
- Hydraulic system design (floating pipeline with booster pumps)
- Water quality treatment (alum and polymer feeds for turbidity control)
- Geotechnical engineering (slope stability, embankment design, settling and consolidation of mixed media slurry)
- Construction support services (bid specifications and plans, contractor screening and selection, engineering inspections, progress payment review, permit compliance review, landowner coordination)
- Wetland science

Unique components of the project included:

- Long transport distances (5 to 12 miles) from the canals to the disposal site
- Highly variable composition of the dredged sediments (unconsolidated sands, flocculent muck, consolidated muck & cohesive clay)
- A requirement for precise sediment deposition at a subsided muck farm to cap pesticide contamination hotspots while simultaneously maintaining several feet of water over the disposal site



The project was completed by the low bidder without change orders under AMEC's inspection and coordination program.

**Key Staff:**

Walter Reigner, PE, CPESC  
 John Kiefer, PhD, PE, PWS  
 Carl Christmann, PE  
 Mark Jones

**Project Cost:**

Engineering: \$400,000  
 Construction: \$7.2 million

<b>25. Firms From Section C Involved With This Project</b>		
1. Firm Name / 2. Firm Location / 3. Role		
▪ AMEC / Lakeland, Florida /	Evaluation, design, &	construction support services



F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract		Project No. 7
21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)
Lake Maggiore Aquatic Enhancement, St. Petersburg, Florida		2005 / 2008
23. PROJECT OWNER'S INFORMATION		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
City of St. Petersburg	Mike Connors – Administrator of Public Works	727.893.7841
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)		

AMEC conducted a feasibility study on Lake Maggiore for the City of St. Petersburg to determine the most effective method of removing organic sediments from the bottom of the 350-acre lake located in a highly urbanized area. The project's purpose was to improve highly impacted water quality, habitat, and navigation due.

There were a number of components that made this project unique. AMEC worked with the governor and his cabinet to successfully obtain project permits because of Pinellas County's environmental designation as "Aquatic Preserve". It was determined that approximately 2.3 million cubic yards of sand and highly organic sediment would need to be removed to achieve optimum restoration. Sediment removal methods studied were hydraulic dredging and lake drawdown/mechanical excavation.

The method selected for bidding was hydraulic dredging. Sediment reuse options that were studied included in-lake disposal areas, remote disposal, and production of beneficial/usable products. AMEC designed and permitted a specialized de-sanding and dewatering system. A dredge contractor was selected, and project implementation concluded in 2008.

**Key Staff:**

Walter Reigner, PE, CPESC  
 John Kiefer, PhD, PE, PWS  
 Mark Jones

**Project Cost:**

Engineering: \$500,000  
 Construction: \$15 million



25. Firms From Section C Involved With This Project
1. Firm Name / 2. Firm Location / 3. Role
<ul style="list-style-type: none"> <li>AMEC / Lakeland, Florida / Dredging feasibility study</li> </ul>

**F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract** Project No. 8

<b>21. TITLE AND LOCATION (CITY AND STATE)</b>	<b>22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)</b>
Taylor Creek Restoration Dredging, Fort Pierce, Florida	2009 / 2009

<b>23. PROJECT OWNER'S INFORMATION</b>		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
St. Lucie County	Donald West, PE – County Engineer	772.462.1485

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)**

AMEC investigated and evaluated alternative upland disposal sites for three phases (sediment removal and management feasibility, design and permitting, and bid specification and contractor selection) of sediment removal and restoration of Taylor Creek, a coastal stream flowing into the Indian River Lagoon (IRL). AMEC's scope of work included preparation of permit applications; coordination with local, state, and federal agencies; sediment sampling and characterization; calculation of volume requirements for disposal; engineering design and construction monitoring of upland disposal area; and monitoring and testing during dredging and material placement.

The ultimate goal of this project was to hydraulically remove and temporarily store approximately 200,000 cubic yards of accumulated sediments in one of two temporary upland dredged material management sites located on the St. Lucie Port property. After dewatering, the sediments were hauled to the county landfill for use as cover material. The removal of the sediment should reduce further discharge of fine-grained, organic bearing sediments to the IRL and reestablish both navigation and the sediment traps in Taylor Creek.

The project area consists of the westerly edge of the Intracoastal Waterway (ICW) right-of-way to the South Florida Water Management District (SFWMD) Canal No. C-25 spillway (S-50 structure) and the Fort Pierce Farms Water Control District Canal No. 1 (F-1 Spillway). The project is broken down into two reaches: Reach No. 1 is the area between the westerly edge of the ICW channel and the Florida East Coast Railroad (FECRR) Bridge, and Reach No. 2 is the area between the FECRR and the Spillway (S-50 structure) at the C-25 Canal and the submerged weir at the F-1 (North) Canal on the west.

Approximately 120,000 cubic yards of sediment was removed from Reach No. 1. This includes 90,000 cubic yards of sediments from the previously designed navigation channel (100 to 140 feet wide; -12.5 feet MSL) and an additional 30,000 cubic yards north and south of the navigation channel to the shoreline. Reach No. 2 entailed removal of approximately 80,000 cubic yards of sediment to reestablish the design channel depth to approximately -12.5 feet MSL and 140 feet wide. Reach No. 2 also underwent a shoreline restoration that included shoreline stabilization, improvement, and protection.

Specific objectives of the project included:

- Building project consensus through public involvement
- Investigating and recommending innovative sediment dewatering strategies (technologies) and temporary dredged material management site(s)
- Developing a material management strategy, which included material processing, handling and beneficial utilization
- Confirming sediment bathymetry and volumes for removal
- Designing a dredged material management facility, including construction drawings and specifications
- Reevaluating the total project cost
- Preparing and submitting an Environmental Resource Permit (ERP)
- Developing bid specifications and assisting with contractor selection
- Construction monitoring and materials testing (QA/QC) during construction and dredging



**Key Staff:**

Les Bromwell, ScD, PE	Mike Kelley, PE
Walter Reigner, PE, CPESC	James Bailey

**Project Cost:**

\$380,000

<b>25. Firms From Section C Involved With This Project</b>		
1. Firm Name / 2. Firm Location / 3. Role		
▪	AMEC / Lakeland, Florida /	Dredging/Design, Geotechnical Engineering, Testing, Sediment Removal, Permitting, Construction Monitoring

F. Example Projects Which Best Illustrate the Proposed Team's Qualifications for this Contract		Project No. 9
21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)
FIND MSA 0-7 DMMA, Martin County, Florida		2011 / N/A
23. PROJECT OWNER'S INFORMATION		
a. Project Owner	b. Point of Contact Name	c. Point of Contact Telephone Number
Taylor Engineering, Inc.	Lori Brownell, PE, Director of Waterfront Engineering	904.256.1367
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)		

AMEC was contracted by Taylor Engineering, Inc., through their client, the Florida Inland Navigation District (FIND), to provide geotechnical engineering services for a proposed 39-acre dredged material management area (DMMA) and associated infrastructure. The project site is located on the north side of the Okeechobee Waterway (OWW), near the St. Lucie Lock and Dam, about 5,500 feet south-southwest of the intersection of Florida's Turnpike and I-95 in Martin County, Florida.

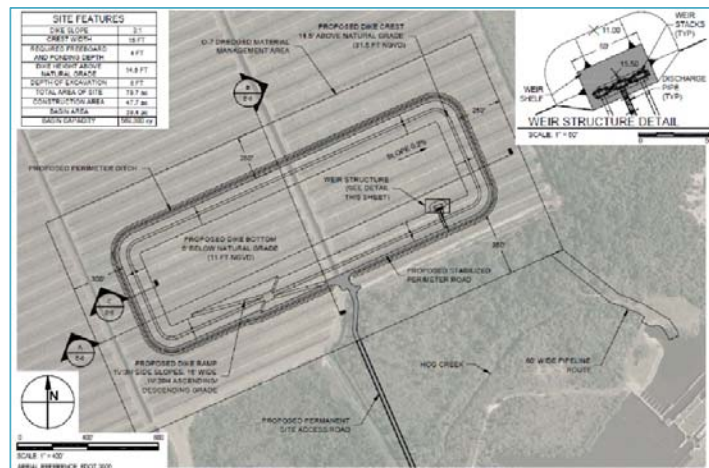
The proposed DMMA will have a storage capacity of 569,300 cubic yards. The DMMA will have a dike crest elevation that is about 14.5 feet above the existing grade. The DMMA will have a dike crest width of 15 feet, 3:1 (H:V) dike side slopes, and a basin bottom elevation that is 20 feet below the dike crest. A pile-supported overflow weir structure will be located near the southeastern corner of the proposed DMMA. This DMMA will receive, dewater, and temporarily store material removed from Reach IV of the Okeechobee Waterway (OWW) during maintenance dredging operations. In addition, a 9,650-foot long, unpaved access roadway and two small bridges will be constructed to provide access to the DMMA.

AMEC performed a geotechnical exploration for this project that consisted of 24 SPT borings to depths of 30 to 60 feet each along the proposed perimeter dike alignment, and 16 auger borings to a depth of 10 feet each in the interior of the proposed DMMA. For the proposed roadway and bridges, AMEC performed 24 auger borings to a depth of 6 feet each, and two SPT borings to a depth of 50 feet each for each of the two proposed bridges.

Laboratory testing consisted of moisture content, fines content, organic content, Atterberg limits, carbonate content, consolidation, Proctor compaction, hydraulic conductivity, triaxial compression, and Limerock Bearing Ratio (LBR). Engineering services consisted of multiple seepage and stability analyses for the proposed dikes, pile capacity analyses for the proposed weir structure and bridges, and subgrade evaluations for the proposed roadway.

**Key Staff:**  
 Kirk McIntosh, PE  
 Mike Woodward, PE  
 Zhihong Hu, PhD, PE  
 Brian Hathaway, PE  
 Scott Gutowski, EI  
 David Johns Jr.

**Project Cost:**  
 \$66,000



25. Firms From Section C Involved With This Project
1. Firm Name / 2. Firm Location / 3. Role
AMEC / West Palm Beach, Florida / Geotechnical engineering/dredged material management

<b>21. TITLE AND LOCATION (CITY AND STATE)</b>	<b>22. YEAR COMPLETED (PROFESSIONAL / CONSTRUCTION)</b>
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Loxahatchee L-8 Reservoir Dredging, Palm Beach County, Florida	2007 / 2007
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**23. PROJECT OWNER'S INFORMATION**

<b>a. Project Owner</b>	<b>b. Point of Contact Name</b>	<b>c. Point of Contact Telephone Number</b>
South Florida Water Management District PBA Holdings, Inc.	Lin Riley, Jr. – Vice President	865.599.3859

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)**

The South Florida Water Management District's (SFWMD) Loxahatchee Reservoir is a critical component of the Comprehensive Everglades Restoration Plan (CERP) and is the first public/private project completed under this plan. This 1,000-acre water storage area was created in a former limestone quarry. AMEC was retained by PBA Holdings, Inc. to provide comprehensive design and construction support and to serve as the engineer of record.

PBA converted mined rock pits into water storage reservoirs by implementing a dredging program to deepen the excavations to an elevation of -42 feet NAVD. The process required analysis of the materials to be dredged, design of disposal areas for the material and optimization of the process to minimize the amount of fine-grained sediments in the hydraulic fill.

Approximately 35 million cubic yards of material were dredged to create the reservoir. AMEC analyzed underwater slopes to minimize long-term erosion during hurricane events and filled disposal areas in a manner to allow for the construction of a power plant and residential development adjacent to the reservoir.



**Key Staff:**

- Les Bromwell, ScD, PE
- Carl Christmann, PE
- Roberto Fernandez, PE
- Jeff Beriswill, PE

**Project Cost:**

- Engineering: \$4.5 million
- Construction: \$100 million

**25. Firms From Section C Involved With This Project**

<b>1. Firm Name / 2. Firm Location / 3. Role</b>
<ul style="list-style-type: none"> <li>■ AMEC / Lakeland, Florida / Comprehensive design and construction support</li> </ul>

G. Key Personnel Participation In Example Projects											
26. Names of Key Personnel (From Section E, Block 12)	27. Role in this Contract (From Section E, Block 13)	28. Example Projects Listed in Section F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Scott Wuitschick, PE	Project Manager/Permitting and Public Education	■	■								
Walter Reigner, PE, CPESC	Principal-in-Charge	■	■	■	■	■	■	■	■		■
Gary Nemeth	Project Coordinator										
Michael Phelps, PE	QA/QC										
Michael Kelley, PE	Geotechnical Evaluation	■							■		
Les Bromwell, ScD, PE	Geotechnical Evaluation		■		■				■		■
Glen Andersen, ScD, PE	Geotechnical Evaluation										
Roberto Fernandez, PE	Geotechnical Evaluation										■
Lance Lumbard, CLP	Permitting and Public Education						■				
Kevin Shelton	Permitting and Public Education	■	■								
Jeremy Paris, PWS	Permitting and Public Education										
Wendy Blondin, PG	Permitting and Public Education										
Jennifer Sagan	Permitting and Public Education										
Mark Jones	CAD Support Services		■				■	■			
Aziza Baan, GISP	GIS Support Services		■		■						
R. Michael Jones, PLS, CFedS	Survey, Sampling & Characterization					■					
Charles Gardiner, PLS, CFedS	Survey, Sampling & Characterization					■					
Christopher Lindstedt, PSM	Survey, Sampling & Characterization					■					
Mary Szafranec, PhD, PWS	Survey, Sampling & Characterization										
Katherine Deliz Quinones, PhD	Survey, Sampling & Characterization										
William Tucker, PhD	Survey, Sampling & Characterization					■					
Brian Hathaway, PE	Survey, Sampling & Characterization									■	
Kyle Compton	Survey, Sampling & Characterization										
Leon Seale III, PE	Dredge Design	■	■		■	■					
Charlene Stroehlen, PE	Dredge Design					■					
Gregory Corning, EIT	Dredge Design										

No.	Title Of Example Project (From Section F)	No.	Title Of Example Project (From Section F)
1	Lake Seminole Sediment Removal	6	Lake Griffin Canal Dredging and Eustis Muck Farm Wetland Restoration
2	Tampa Waterway Management Projects	7	Lake Maggiore Aquatic Enhancement
3	Lake Hollingsworth Restoration Project	8	Taylor Creek Restoration Dredging
4	Lake Rowell Aquatic Enhancement	9	FIND MSA 0-7 Dredged Material Management Area (DMMA)
5	Chassahowitzka River Springhead Restoration	10	Loxahatchee L-8 Reservoir Dredging

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# Project Manager's Experience

**H. ADDITIONAL INFORMATION**

**30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.**

**Project Manager’s Experience**

Mr. Scott Wuitschick, PE will serve as AMEC’s project manager for this project. Mr. Wuitschick has served in a similar role on multiple completed and ongoing dredging projects during his eight year tenure with AMEC including the following:

- City of Tampa – Tampa Waterways
- Pinellas County – Lake Seminole Sediment Removal
- Lake County Water Authority – Lake Beauclair
- City of Winter Haven – Lake May
- St. Johns River Water Management District – Lake Apopka Dredging
- St. Johns River Water Management District – Eau Gallie River Dredging

Mr. Wuitschick’s involvement in these projects has included everything from direction of technical work efforts to permitting to coordination with private landowners and stakeholders. In addition to the dredging projects listed above, Scott has managed many large scale and high profile permitting projects across the state of Florida involving dredging, mining, and ecological restoration efforts.

Scott routinely manages large multi-disciplinary projects and is familiar with all of the technical aspects of the

proposed project including surveying, geotechnical evaluations, soil and water sampling and testing, materials management, permitting, dredging and pumping systems, dewatering practices, sediment disposal evaluation and design, and development of plans and specifications.

Mr. Wuitschick will be assisted in project management by Mr. Gary Nemeth. Mr. Nemeth has extensive past experience with this project and with the City of Ft. Lauderdale. Gary’s primary role will be in project coordination and outreach. Gary’s past experience with the project and knowledge of regional stakeholders and conditions will help to ensure that the project is well conceived and that all institutional knowledge of the project is incorporated in AMEC’s evaluation and design work.

Mr. Nemeth and Mr. Wuitschick will work together to ensure that the technical strengths of AMEC’s team are applied in the most efficient manner possible to achieve the goals of the project. All technical work will be directed and managed through a group of experienced task leaders who are experts in their individual fields as indicated in the team organizational chart. Additional details regarding the project management team are provided in the individual resumes included in this submittal.





**H. ADDITIONAL INFORMATION**

**30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.**

AMEC has provided full-service design and consulting solutions to public and private clients throughout Florida for more than 30 years. AMEC's team includes more than 500 highly qualified and experienced professionals in Florida and our local teams have full access to AMEC's broader resource base, which includes approximately 29,000 professionals located across the United States and the globe. Most importantly, AMEC's nearly three decades of Florida lake restoration and dredging projects are unmatched in the industry.

Florida lake restoration and dredging is a flagship service for AMEC's Florida business. Our in-house resources have extensive and recent experience in all aspects of lake dredging and restoration including:

- Lake diagnostics and water quality assessments
- Bathymetric and terrestrial surveying
- Design and implementation of sediment sampling and analytical programs
- Dredging design and alternatives evaluations
- Sediment dewatering design and alternatives evaluations

- Sediment disposal and beneficial reuse design and alternatives evaluations
- Aquatic habitat assessment and restoration services
- Permitting and compliance
- Public and stakeholder communications and coordination
- Project funding assistance

AMEC's expertise has been developed over the course of three decades of successful and continuous Florida project history for a variety of clients including municipalities and counties, Florida Fish and Wildlife Conservation Commission (FWC), Lake County Water Authority (LCWA), private industry, Florida Inland Navigation District (FIND), St. Johns River Water Management District (SJRWMD) and sister Water Management Districts. AMEC's recent experience includes design, permitting, and construction management services for the award-winning Lake Beauclair project, which included utilization of cells F and G for dredged spoil management and disposal.



**H. ADDITIONAL INFORMATION**

**30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.**

Working with the AMEC team is Dredging & Marine Consultants (DMC), a State of Florida MBE firm. DMC will perform sediment sampling and permitting coordination for the City of Fort Lauderdale. DMC specializes in sediment removal (dredging) feasibility studies, identifying state and federal funding sources, public education, permitting, engineering, design, technical bid preparation, construction observation, permit-compliance inspection, monitoring and management of sediment, including identification of beneficial reuse options. In addition, DMC provides similar services related to the design and assessment of waterfront facilities such as marinas, docks, boat ramps, fishing piers, seawalls, retaining walls, rock revetments and shoreline erosion stabilization.



“Sustainability is a set of environmental, economic and social conditions in which all of society has the capacity and opportunity to maintain and improve its quality of life indefinitely without degrading the quantity, quality or the availability of natural resources and ecosystems.”

**American Society of Civil Engineers (ASCE)  
Sustainable Development Committee**

AMEC is committed to implementing sustainable practices, respectful of the balance between environmental, social and economic risks (triple bottom line). Our aim is to create a successful, sustainable company for the long-term. To achieve this, we need to balance economic, social and environmental issues in our decision-making processes, ensuring sustainable working is integrated into the very core of our business.

We believe that by living our values, we ensure excellent project delivery for our customers and as such achieve sustainable growth. We contribute to our clients’ sustainability through direct services, which support the economic, environmental and the social performance of their operations.

AMEC is pleased that we have again been ranked the industry leader for sustainability in the oil equipment and services sector of the worldwide Dow Jones Sustainability Indices (DJSI).

This is the fifth time that AMEC has been made industry leader and the 11th time without a break that it has been featured in the DJSI, which is now in its 15th year. DJSI annually surveys and benchmarks thousands of the world's largest companies.

The assessment for 2014 was based on corporate economic, environmental and social performance, taking into account issues such as:

- Corporate governance
- Customer relationship management
- Risk & crisis management
- Operational eco-efficiency
- Corporate citizenship
- Human capital development
- Talent attraction and retention
- Occupational health and safety
- Supply chain standards and
- Labor practices and human rights

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# Approach to Scope of Work

## H. ADDITIONAL INFORMATION

### 30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

#### Approach - Background and Understanding

The Florida Inland Navigation District (FIND) plans to deepen the Atlantic Intracoastal Water way (ICWW) extending north from the 17th Street Causeway to a location approximately 1 mile north of the Las Olas Boulevard bridge. Following FIND's deepening project, the City plans to deepen the ICWW extending generally eastward from the limits of FIND's project to the City's marina facilities at the Las Olas Marina and the Bahia Mar Yachting Center. The project is for the specific purpose of maintaining consistency with the deepened federal channel. The dredge area includes both the Florida Department of Environmental Protection (FDEP) submerged lease area limits and outside the boundaries of the channel located between the eastern right of way and the submerged land lease line. The project also includes deepening the Las Olas Marina basin and a limited area north of, and adjacent to, the basin.

The City's project, referred to as the Las Olas Marina Dredging Project, includes the major elements of permitting, compensatory mitigation design, dredge design development, preparation of dredging contractor bid package, field studies, surveys and laboratory analyses required to support these major project elements. Dredging permits/licenses must be obtained by the City in order to perform the proposed dredging activities and include:

- US Army Corps of Engineers (USACE) Section 10 Department of the Army- Dredge and Fill Permit; as part of the USACE permit process, the National Marine Fisheries Service (NMFS) and the US Fish & Wildlife Service will be required to perform a formal consultation review of the permit application,
- FDEP Environmental Resource Permit, and
- Broward County Environmental Protection and Growth Management Department (BCEPGMD) – Environmental Resource License.

A pre-application meeting was held on April 11, 2011 between the City, the Corps of Engineers, FDEP and Broward County to discuss licensing requirements and approval requirements of each regulatory agency. In August 2011, a bathymetric survey, benthic resource and seagrass survey and a preliminary Essential Fish Habitat (EFH) and preliminary Biological Assessment were completed. The City submitted the required environmental permit applications to the USACE, FDEP and the BCEPGMD on January 31, 2013 and a post



submittal roundtable meeting was conducted with all agencies on April 3, 2013.

Six (6) limited benthic resource surveys were conducted within the City's proposed dredge limits between 2008 and 2013. These surveys are summarized in the September 2013 Conceptual Mitigation Plan. This plan was completed in response to agency comments documented at the April 2013 post submittal roundtable meeting.

We understand that the City's Conceptual Mitigation Plan (CMP) was reviewed by the FIND, Broward County, and FDEP and that comments to that plan have been provided. We further understand that this mitigation plan considered a larger dredge area than currently considered, one that included dredging adjacent to the Fort Lauderdale Aquatic Complex. The CMP utilized the northwestern portion of the FIND's Deerfield Island as the location for compensatory seagrass mitigation.

Dredge areas identified on pre-dredge surveys contained in the City's CMP were based on dredge limits identified by the City at the onset of the project and used in the initial waterway assistance grant request. Buffer areas referenced in the CMP separate the dredge limits from undisturbed bottom and were requested by regulatory agencies during the April, 2011 pre-application meeting. The dredge footprint further included an area north of, and adjacent to, the Las Olas Marina basin and an area immediately west of the Fort Lauderdale Aquatic

## H. ADDITIONAL INFORMATION

### 30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Complex, which has subsequently been removed. The current dredge footprint includes property, easements, right-of-ways and submerged land leases, utility easements and current improvements.

A dredging plan will be developed as part of this project. It is assumed that dredge material disposal will utilize the FIND's dredge material disposal site located at Port Everglades.

The City has participated in the FIND's Waterways Assistance Program. The City Commission has authorized by resolution the appropriation toward the matching fund requirement of the grant.

#### City Needs, Goals and Objectives

The City's needs, goals and objectives related to the Las Olas Marina Dredging project include:

- Complete project design development at a 30% (preliminary), 60% (intermediate) and 90% (final) design level for both the dredging and compensatory mitigation (including basis of design, cost estimates and City reviews) in a period not to exceed 2 years.
- Dredge design development will include requisite monitoring plans and environmental controls, and consider least cost and/or best value alternatives and approaches where appropriate,
- Complete all required permitting, agency reviews, responses, project modifications, meetings, public presentations and approvals required to construct and operate the project in compliance with all environmental and construction regulations, rules, codes and/or approvals in a period not to exceed two years,
- Develop project bid solicitation packages for construction activities and assist City with bid development, requirements, contractor identification, solicitation, evaluation, recommendation for contractor selection in a period not to exceed one year following completion of design and permitting,
- Administer/manage all work activities under this contract compliant with City contract requirements and industry standard project management practices,
- Conduct field surveys, develop design plans and specifications, construction and contract documents and management activities to comply with the FIND's Waterway Assistance Program requirements, applicable local, state and Federal Ordinance, Rules, Codes, Licenses and Regulations, applicable health



and safety standards and to limit and/or avoid potential for construction claims, and

- Optimize the project to avoid and minimize natural resource impacts, MOT and allow for concurrent ICWW use.

#### Work Approach

Based on our understanding of the City's needs, goals and objectives and our experience with similar dredging and permitting projects, AMEC developed a preliminary schedule of activities for the Las Olas Marina Dredging. The preliminary project schedule describes a work approach that incorporates all associated design, scheduling and coordination efforts necessary to allow the City's project to be synchronized with the FIND's dredging project for deepening the Intracoastal Waterway main corridor adjacent to the City's project location. This schedule assumes that the duration of the FIND's ICWW deepening project is 18 to 24 months.

AMEC's preliminary project schedule is based upon completion of tasks and activities common to the required field data collection, design development or permitting necessary to support either project dredging or permitting. The schedule illustrates the importance of timely collection of field data, initiated at the onset of the project immediately following compilation and review of project documentation provided by the City. Field data collection and field survey activities provide critical, site-specific information necessary to support permit and design development.

**H. ADDITIONAL INFORMATION**

**30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.**

Our preliminary project schedule indicates a project duration of 18 months. The schedule provides a contingent time frame of approximately six months to accommodate unforeseen schedule delays, changes or modifications associated with design development and permitting following near-concurrent tracks. The preliminary schedule includes two rounds of Request for Additional Information with a 30-day response period and a similar 30-day period for agency review and response. The preliminary schedule assumes a notice to proceed in February 2015. Our benthic and bathymetric site work is subsequently initiated in project month 3, coinciding with the early start of the seagrass growing season. Any delays in issuance of notice to proceed will affect the start of this time-sensitive field activity, which drives mitigation design and permitting activities.

Our project schedule on the following page incorporates all scope elements identified in the City's solicitation 946-11484 described for Phases 1 and 2.

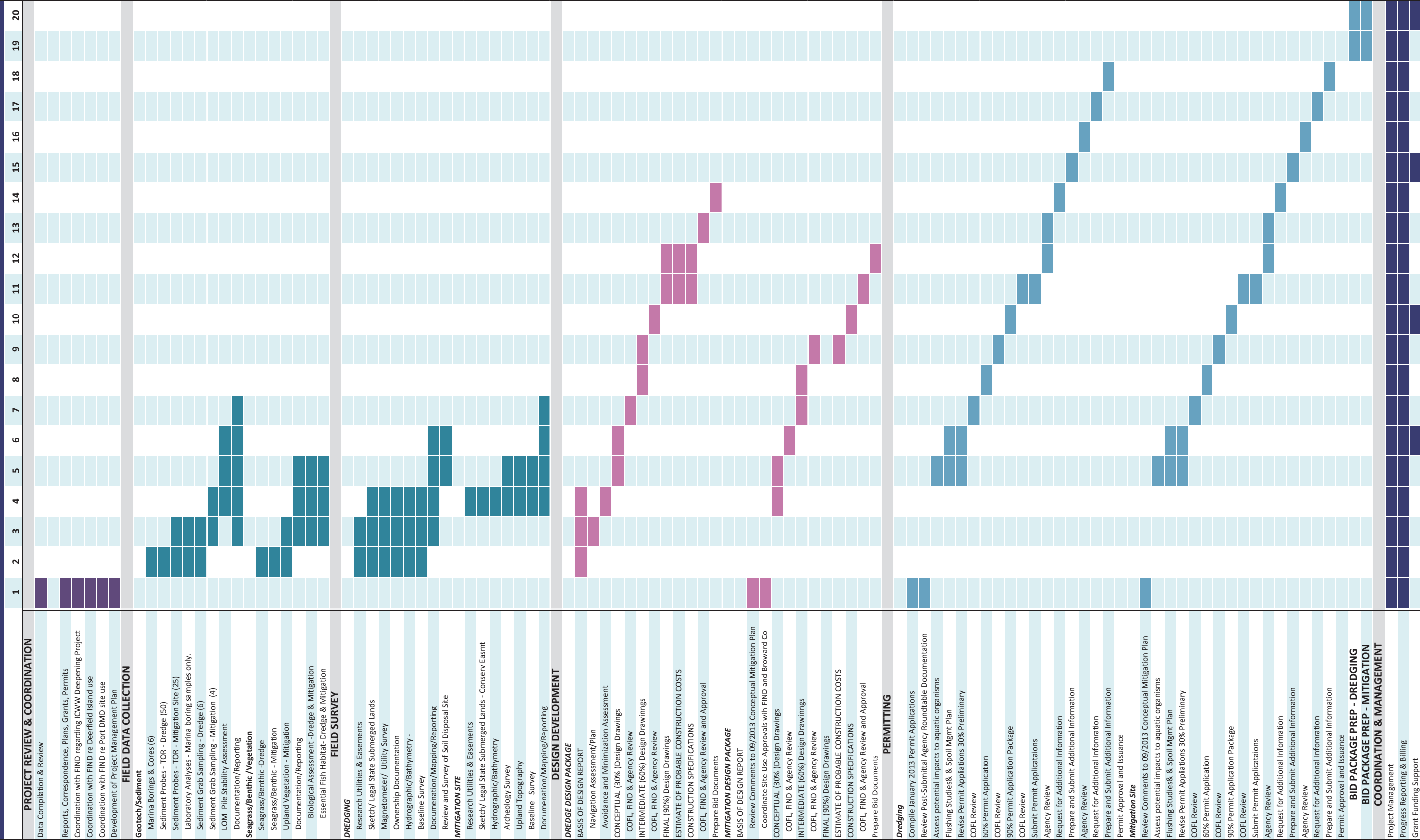


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Preliminary Schedule - COFL Los Olas Marina Dredging Project

Months



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## H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

### Vision, Ideas and Methodology

AMEC's approach to complete the work is based upon our experience with dredging and permitting in both marine and freshwater environments. Our work approach includes collaboration with the FIND regarding site conditions, dredging techniques and equipment, regulatory activities and work approaches utilized on their recently completed Dania Cut-Off Canal project for suitable application to the City's project.

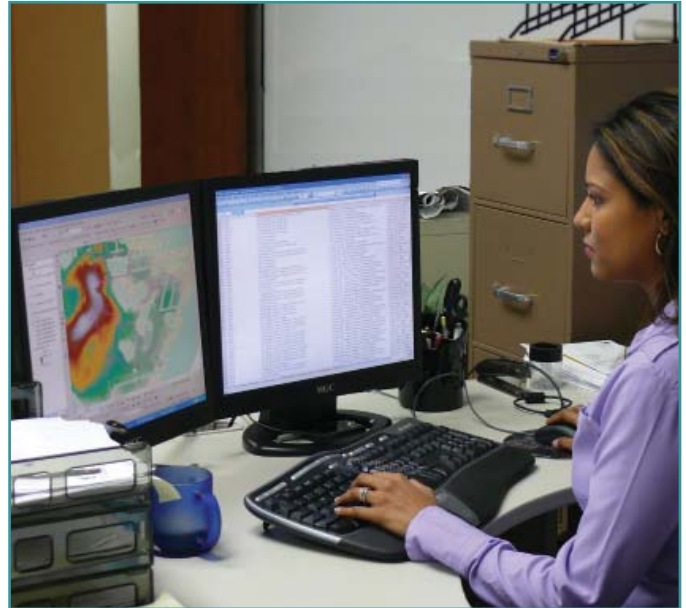
AMEC's experience has shown that early and frequent coordination with the permit reviewers ensures a timely permitting process and minimizes Requests for Additional Information (RAI). By working with the reviewers throughout the application review process, we are often able to quickly respond to questions and concerns before project delaying RAI's are issued.

Our approach also includes application of our firm-wide Quality Assurance/Quality Control practices throughout the design development process for both the dredging and mitigation, regulatory communications, presentations, correspondence and applied to all field data collection, laboratory, reporting and construction activities. All subcontractors will perform their work in full compliance with our Quality Assurance/Quality Control Plan unless their own Quality Control plans are more stringent and variance from our corporate QA/QC plan approved. Additionally, all work will be completed in compliance with our corporate Health and Safety and project management plans.

### Scheduling Methodology

This is a schedule driven project. Waterways Assistance Grants include detailed project timelines for the accomplishment of key project components including completion dates for permitting, design, bidding, applicant approvals, initiation of construction, and completion of construction. Progress reporting requires monitoring adherence to the project baseline schedule.

AMEC will utilize industry-standard scheduling software (Primavera P3, Timberline or Microsoft Project) to manage this project. Following approval by the City, the selected scheduling program will be used to develop a baseline project schedule, identify critical path, dates for project milestones, deliverables, critical activities and approvals, City and regulatory reviews, and task and project completion dates. Our schedules are typically developed at the individual task level and presented in GANTT format. The schedule is often used to communicate work flow, activity and task relationship,



identify critical tasks, apply and evaluate resources, develop project cash flow, record and report project progress, identify resource constraints, and support development of acceptable work-arounds. The project baseline schedule will form the basis for resource allocation, project costs, and evaluating project progress.

Updated project schedules will be utilized to communicate project objectives associated with scope, time and budget and facilitate coordination with the FIND, USACE, National Marine Fisheries Service (NMFS) FDEP, BCEPGMD, governing board, City Commission, Marina and Beach Advisory Board and other agencies, offices, authorities and stakeholders necessary to complete the project.

### GIS Software

For more than 10 years, AMEC has been utilizing GIS and other information management tools to assist both public and private sector clients worldwide. AMEC has in-depth knowledge and experience in GIS projects requiring database creation, maintenance, and service support.

The firm also is an Environmental Systems Research Institute, Inc. (ESRI) business partner and Arc-platform software reseller. Our broad variety of services includes needs assessment analysis, system implementation/integration, application development, database development, data quality analyses, mapping and spatial analyses, and project/facilities management. We have also used GPS surveying for data collection on several projects.

## H. ADDITIONAL INFORMATION

### 30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Additionally, AMEC provides GIS training, with staff members experienced in teaching GIS internally, on client sites, and at the university level. We possess and are experienced in using ESRI's ArcGIS suite (ArcView and ArcInfo) and ArcMicrosoft; ERDAS Imagine; Autodesk's Civil 3D; databases including Access, Oracle, and SQL Server; and programming languages including Visual Basic, Avenue, AML, and multiple web scripting languages.

#### CAD Software

All design drawings are developed using AutoCAD version 2011 or later or other similar CAD software that is directly convertible to AutoCAD. AMEC has global agreements in place with major CAD providers such as Autodesk (AutoCAD) and Bentley (MicroStation) giving AMEC personnel extensive concurrent licenses to all products. AMEC is currently expanding these agreements with the goal of giving personnel access to unlimited quantities of software products. AMEC minimum computer configuration is a 3.1 1GHz Core i3-2100 Dell OptiPlex 390 with 8 GB RAM. Current AMEC minimum server configuration is s a Windows server 2008 R2 Standard 64 bit, 4G RAM, Xeon CPU X3430 @2.4GHz. AMEC maintains the latest versions of the following software for use on our design projects:

- Autodesk Civil 3D
- 3D Studio
- BIM Software - Autodesk Revit 2013 (Architecture, MEP and Structural)
- MicroStation
- GEOPAK
- InRoads
- HydroCAD
- Transoft AutoTURN
- Transoft GuidSign
- SignCAD



- Axiom Suite
- ProjectWise

#### Equipment, Facilities and Materials Availability

AMEC presently has the ability, the personnel and equipment necessary to perform the services outlined in the solicitation. This includes both field and office equipment that will be available for this project. Some of the equipment owned by AMEC is listed below:

- Geophysical Survey Equipment
- Surveying Equipment
- Sampling Equipment
- Aquifer Testing Equipment
- Health/Safety Equipment
- Geotechnical Construction Inspection Equipment
- Environmental/Geotechnical/ Drilling/Water Testing Equipment
- GPS Equipment
- Vehicles
- Total Stations/ Theodolites
- Automatic Levels
- Data Collectors
- Boats
- Subsurface Utility Engineering Equipment
- Samplers
- Measurement
- Soil Vapor Analyzers
- Meters
- Pumps
- Software
- Computer Hardware and Other Equipment
- Digital Cameras and Printers



**Surveying and Hydrographic survey equipment includes:**

AMEC Environment & Infrastructure, Inc. Survey Equipment List		
Applanix POS IMU system	HP 48 w/TDS (1)	Nikon model DTM 551 (1") electronic total stations (7)
2- Meter fixed height tripods (12)	JENA DIA 1" theodolite	Odom Hydrotrac single frequency echo sounders (2)
Digibar Pro velocimeter	K&E 1' transits (2)	Odom Echotrak MKIII dual frequency echo sounder
Hammerhead Laptops (2)	Kern GKO A	R2Sonic multi-beam echo sounder
HP 100(2)	Nikon AP-7 (2)	Ross 825b fathometer
Sokkia model SET 500 (2') electronic total stations (3)	Trimble 5700 dual frequency receivers w/ Trimble Zephyr L1/L2 antennae (3)	Wild T3 0.5" theodolite
Spectra Physics laser level	Trimble 5800 dual frequency receivers with NGS calibrated antennae (2)	Wild T16 6" theodolite
Topcon AT-F2 (5)	Trimble Pro XR resource grade DGPS receivers w/ controllers (3)	Zeiss/ Trimble model Ni 12- 1st order Digital level
Transducers of various frequencies and beam widths (4)	Trimble R8 dual frequency receivers with on-board antennae (2)	Zeiss/ Trimble model Ni 21- 2nd order Digital level
Trimble 4000ssi dual frequency receivers w/ Trimble Microcenter L1/L2 antennae (2)	Trimble TSC2 system controllers/ data collectors (10)	
Trimble 4700 dual frequency receivers w/ Trimble Zephyr L1/L2 antennae (3)	Wild N3 1st order level	



**H. ADDITIONAL INFORMATION**

**30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.**

**Workload and Availability**

The AMEC Team's ability to meet project needs and perform the required work is founded in our long and comprehensive history of successfully completing similar projects. Through this history, our team has developed and maintained a staff of experienced and qualified professionals who understand water quality, sediment quality, watershed characteristics, lake management and planning, and lake restoration projects and objectives.

AMEC understands that the overall quality project performance is directly related to availability of staffing, future project commitments, and office utilization. A key factor to providing the quality product relies on meeting schedules and providing services that are continuously available on short notice. All AMEC team members will be committed to this project and are available for the life of this contract. AMEC is dedicated to providing exemplary services to its clients and will spare no efforts in exceeding the expectations of the City of Fort Lauderdale.

We are confident that this project 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 project and are ready to start work immediately. The AMEC team is fully confident that we will complete the scope of services successfully and to your full satisfaction.



**I. AUTHORIZED REPRESENTATIVE**

*The foregoing is a statement of facts.*

31. SIGNATURE

Handwritten signature of Walter Reigner in blue ink.

32. DATE

September 29, 2014

33. NAME AND TITLE

Walter Reigner, PE, CPESC, Principal-In-Charge/Vice President

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)


## Part II - General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>AMEC Environment &amp; Infrastructure, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. DUNS NUMBER <b>03-808-6125</b>
2b. STREET <b>2000 E. Edgewood Dr., Suite 215</b>			<b>5. OWNERSHIP</b>	
2c. CITY <b>Lakeland</b>	2d. STATE <b>FL</b>	2e. ZIP CODE <b>33803</b>	a. TYPE <b>Corporation</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Mike Phelps, PE, Lakeland Office Manager</b>			b. SMALL BUSINESS STATUS <b>not applicable</b>	
6b. TELEPHONE NUMBER <b>(863) 667-2345</b>		6c. E-MAIL ADDRESS <b>mike.phelps@amec.com</b>		
7. NAME OF FIRM (if block 2a is a branch office) <b>AMEC Environment &amp; Infrastructure, Inc.</b>				
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
AMEC Earth & Environmental, Inc. (2000 – 2011)			1994	038086125
AGRA Earth & Environmental, Inc. (1994 – 2000)			1994	803037522
<b>Merger History:</b> AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below) Branch (Firm)
		(1) FIRM	(2) BRANCH			
05	Archeologists	75	--	C14	Conservation and Resource Management	5 (9)
07	Biologists	133	--	C15	Construction Management	3 (10)
08/29	CADD Technicians/GIS Specialists	250	4	D01/D02	Dams; Dikes; Levees	6 (9)
12	Civil Engineers	309	4		Design-Build	2 (10)
15/16	Construction Inspectors/Managers	195	3	E01	Ecological & Archeological Investigations	3 (9)
19	Ecologists	19	1	E07	Energy Conservation; New Energy Sources	1 (9)
23	Environmental Engineers	271	--	E09	EIS, Assessments or Statements	3 (10)
24	Environmental Scientists	386	1	E11	Environmental Planning	(9)
27/55	Foundation/Geotechnical/Soils Engineers	403	8	E12	Environmental Remediation	2 (10)
30	Geologists	390	1	G04	GIS Services	3 (10)
34	Hydrologists/Hydrogeologists	109	--	H03	Hazardous, Toxic, Radioactive Waste Remediation	3 (10)
36	Industrial Hygienist	63	--	H07	Highways; Streets; Airfield Paving; Parking Lots	4 (10)
48	Project Managers	145	4	P05/P07	Planning	(8)
51	Safety/Occupational Health Engineers	30	1	R03	Railroad, Rapid Transit	4 (10)
57	Structural Engineers	57	2	R04	Recreation Facilities (Parks, Marianas, Etc.)	4 (9)
58	Technicians	1078	7	R11	Rivers; Canals; Waterways; Flood Control	6 (10)
60	Transportation Engineers	64	--	S05	Soils & Geologic Studies; Foundations	6 (10)
62	Water Resources Engineers	187	7	S10	Surveying, Platting; Mapping; Flood Plain Studies	3 (8)
	Project Services	797	18	T02	Testing & Inspection Services	3 (10)
	Other Professional Staff	552	--	U01	Unexploded Ordnance Remediation	(10)
<b>Total</b>		<b>5513</b>	<b>61</b>	W02	Water Resources; Hydrology; Ground Water	6 (10)

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	<b>10</b>	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	<b>10</b>	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	<b>10</b>	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE	
The foregoing is a statement of facts.	
a. SIGNATURE 	b. DATE <p style="text-align: center;">3/7/2014</p>
c. NAME AND TITLE	

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)


## Part II - General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>AMEC Environment &amp; Infrastructure, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. DUNS NUMBER <b>03-808-6125</b>
2b. STREET <b>75 E. Amelia Street, Suite 200</b>			<b>5. OWNERSHIP</b>	
2c. CITY <b>Orlando</b>			2d. STATE <b>FL</b>	2e. ZIP CODE <b>32801-1320</b>
6a. POINT OF CONTACT NAME AND TITLE <b>Lisa Prieto, Orlando Office Manager</b>			a. TYPE <b>Corporation</b>	
6b. TELEPHONE NUMBER <b>407-522-7570</b>			b. SMALL BUSINESS STATUS <b>not applicable</b>	
6c. E-MAIL ADDRESS <a href="mailto:lisa.prieto@amec.com">lisa.prieto@amec.com</a>			7. NAME OF FIRM (if block 2a is a branch office) <b>AMEC Environment &amp; Infrastructure, Inc.</b>	
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
AMEC Earth & Environmental, Inc. (2000 – 2011)			1994	038086125
AGRA Earth & Environmental, Inc. (1994 – 2000)			1994	803037522
<b>Merger History:</b> AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number see below Branch (Firm)
		(1) FIRM	(2) BRANCH			
05	Archeologists	75	--	C14	Conservation and Resource Management	2 (9)
07	Biologists	133	--	C15	Construction Management	1 (10)
08/29	CADD Technicians/GIS Specialists	250	1	D01/D02	Dams; Dikes; Levees	(9)
12	Civil Engineers	309	--		Design-Build	(10)
15/16	Construction Inspectors/Managers	195	2	E01	Ecological & Archeological Investigations	2 (9)
23	Environmental Engineers	271	1	E07	Energy Conservation; New Energy Sources	(9)
24	Environmental Scientists	386	2	E09	EIS, Assessments or Statements	2 (10)
25	Fire Protection Engineers	14	1	E11	Environmental Planning	(9)
27/55	Foundation/Geotechnical/Soils Engineers	403	--	E12	Environmental Remediation	2 (10)
30	Geologists	390	--	G04	GIS Services	(10)
34	Hydrologists/Hydrogeologists	109	--	H03	Hazardous, Toxic, Radioactive Waste Remediation	(10)
36	Industrial Hygienists	63	--	H07	Highways; Streets; Airfield Paving; Parking Lots	2 (10)
38	Land Surveyors	37	16	P05/P07	Planning	(8)
48	Project Managers	145	--	R03	Railroad, Rapid Transit	1(10)
57	Structural Engineers	57	--	R04	Recreation Facilities (Parks, Marianas, Etc.)	1(9)
58	Technicians	1078	9	R11	Rivers; Canals; Waterways; Flood Control	2 (10)
62	Water Resources Engineers	187	1	S05	Soils & Geologic Studies; Foundations	1 (10)
	Air Quality Specialists	51	--	S10	Surveying, Platting; Mapping; Flood Plain Studies	6 (8)
	Project Services	797	3	T02	Testing & Inspection Services	5 (10)
	Other Professional Staff	563	--	U01	Unexploded Ordnance Remediation	(10)
<b>Total</b>		<b>5513</b>	<b>36</b>	W02	Water Resources; Hydrology; Ground Water	4 (10)

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	<b>10</b>	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	<b>10</b>	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	<b>10</b>	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million	10. \$50 million or greater	
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

<b>12. AUTHORIZED REPRESENTATIVE</b>	
a. SIGNATURE 	b. DATE 3/7/2014
c. NAME AND TITLE <b>Lisa Prieto, Orlando Office Manager</b>	

AUTHORIZED FOR LOCAL REPRODUCTION STANDARD FORM 330 (6/2004)



**ARCHITECT-ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (if any)

**Part II - General Qualifications**

*(If a firm has branch offices, complete for each specific branch office seeking work.)*

2a. FIRM (OR BRANCH OFFICE) NAME <b>AMEC Environment &amp; Infrastructure, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. DUNS NUMBER <b>03-808-6125</b>
2b. STREET <b>2580 MetroCentre Boulevard, Suite 6</b>			<b>5. OWNERSHIP</b>	
2c. CITY <b>West Palm Beach</b>			2d. STATE <b>FL</b>	2e. ZIP CODE <b>33407</b>
6a. POINT OF CONTACT NAME AND TITLE <b>Bruce Schmitt, West Palm Beach Office Manager</b>			a. TYPE <b>Corporation</b>	
6b. TELEPHONE NUMBER <b>(561) 242-7713</b>			b. SMALL BUSINESS STATUS <b>not applicable</b>	
6c. E-MAIL ADDRESS <b>bruce.schmitt@amec.com</b>			7. NAME OF FIRM (if block 2a is a branch office) <b>AMEC Environment &amp; Infrastructure, Inc.</b>	
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
AMEC Earth & Environmental, Inc. (2000 – 2011)			1994	038086125
AGRA Earth & Environmental, Inc. (1994 – 2000)			1994	803037522
<b>Merger History:</b> AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below) Branch (Firm)
		(1) FIRM	(2) BRANCH			
05	Archeologists	75	--	C14	Conservation and Resource Management	1 (9)
07	Biologists	133	--	C15	Construction Management	4 (10)
08/29	CADD Technicians/GIS Specialists	250	--	D01/D02	Dams; Dikes; Levees	4 (9)
12	Civil Engineers	309	--		Design-Build	(10)
15/16	Construction Inspectors/Managers	195	2	E01	Ecological & Archeological Investigations	(9)
19	Ecologists	19	--	E07	Energy Conservation; New Energy Sources	(9)
23	Environmental Engineers	271	--	E09	EIS, Assessments or Statements	1 (10)
24	Environmental Scientists	386	2	E11	Environmental Planning	(9)
27/55	Foundation/Geotechnical/Soils Engineers	403	4	E12	Environmental Remediation	2 (10)
30	Geologists	390	1	G04	GIS Services	(10)
34	Hydrologists/Hydrogeologists	109	--	H03	Hazardous, Toxic, Radioactive Waste Remediation	1 (10)
47	Planners: Urban/Regional/Environmental	49	--	H07	Highways; Streets; Airfield Paving; Parking Lots	2 (10)
42	Mechanical Engineers	36	1	P05/P07	Planning	(8)
48	Project Managers	145	1	R03	Railroad, Rapid Transit	(10)
58	Technician	1078	5	R04	Recreation Facilities (Parks, Marianas, Etc.)	(9)
60	Transportations Engineers	64	--	R11	Rivers; Canals; Waterways; Flood Control	1 (10)
62	Water Resources Engineer	187	--	S05	Soils & Geologic Studies; Foundations	4 (10)
	Environmental Regulatory Compliance Specialist	6	1	S10	Surveying, Platting; Mapping; Flood Plain Studies	(8)
	Project Services	797	2	T02	Testing & Inspection Services	4 (10)
	Other Professional Staff	611	--	U01	Unexploded Ordnance Remediation	(10)
				W02	Water Resources; Hydrology; Ground Water	4 (10)
<b>Total</b>		<b>5513</b>	<b>19</b>			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	<b>10</b>	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	<b>10</b>	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	<b>10</b>	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE <b>3/7/2014</b>
c. NAME AND TITLE <b>Bruce Schmitt, West Palm Beach Office Manager</b>	

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

## Part II - General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>AMEC Environment &amp; Infrastructure, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. DUNS NUMBER <b>03-808-6125</b>
2b. STREET <b>5845 NW 158th Street</b>			5. OWNERSHIP	
2c. CITY <b>Miami Lakes</b>			a. TYPE <b>Corporation</b>	
2d. STATE <b>FL</b>	2e. ZIP CODE <b>33014</b>		b. SMALL BUSINESS STATUS <b>not applicable</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Jose Perez, Miami Office Manager</b>			7. NAME OF FIRM (if block 2a is a branch office) <b>AMEC Environment &amp; Infrastructure, Inc.</b>	
6b. TELEPHONE NUMBER <b>305-826-5588</b>		6c. E-MAIL ADDRESS <b>jose.r.perez@amec.com</b>		
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
AMEC Earth & Environmental, Inc. (2000 – 2011)			1994	038086125
AGRA Earth & Environmental, Inc. (1994 – 2000)			1994	803037522
<b>Merger History:</b> AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.); Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)				

### 9. EMPLOYEES BY DISCIPLINE

### 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below) Branch (Firm)
		(1) FIRM	(2) BRANCH			
05	Archeologists	75	--	C14	Conservation and Resource Management	(9)
07	Biologists	133	--	C15	Construction Management	7 (10)
06	Architects	19	1	D01/D02	Dams; Dikes; Levees	(9)
08/29	CADD Technicians/GIS Specialists	250	2		Design-Build	7 (10)
12	Civil Engineers	309	4	E01	Ecological & Archeological Investigations	(9)
15/16	Construction Inspectors/Managers	195	6	E07	Energy Conservation; New Energy Sources	(9)
19	Ecologists	19	1	E09	EIS, Assessments or Statements	6 (10)
21	Electrical Engineers	18	1	E11	Environmental Planning	(9)
23	Environmental Engineers	271	4	E12	Environmental Remediation	7 (10)
24	Environmental Scientists	386	2	G04	GIS Services	2 (10)
27/55	Foundation/Geotechnical/Soils Engineers	403	3	H03	Hazardous, Toxic, Radioactive Waste Remediation	3(10)
30	Geologists	390	1	H07	Highways; Streets; Airfield Paving; Parking Lots	6 (10)
34	Hydrologists/Hydrogeologists	109	--	P05/P07	Planning	(8)
42	Mechanical Engineers	36	1	R03	Railroad, Rapid Transit	5 (10)
48	Project Managers	145	--	R04	Recreation Facilities (Parks, Marianas, Etc.)	2(9)
57	Structural Engineers	57	--	R11	Rivers; Canals; Waterways; Flood Control	1 (10)
58	Technicians	1078	25	S05	Soils & Geologic Studies; Foundations	7 (10)
62	Water Resources Engineers	187	--	S10	Surveying, Platting; Mapping; Flood Plain Studies	(8)
	Project Services	797	15	T02	Testing & Inspection Services	6 (10)
	Other Professional Staff	636	--	U01	Unexploded Ordnance Remediation	(10)
<b>Total</b>		<b>5513</b>	<b>66</b>	W02	Water Resources; Hydrology; Ground Water	3 (10)

### 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)


a. Federal Work	<b>10</b>
b. Non-Federal Work	<b>10</b>
c. Total Work	<b>10</b>

### PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- |   |   |
|---|---|
| 1. LESS THAN \$100,000                  | 6. \$2 million to less than \$5 million   |
| 2. \$100,000 to less than \$250,000     | 7. \$5 million to less than \$10 million  |
| 3. \$250,000 to less than \$500,000     | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million   | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater               |

### 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE <b>3/7/2014</b>
c. NAME AND TITLE <b>Jose Perez, Miami Office Manager</b>	

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 330 (6/2004)

**ARCHITECT-ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (if any)

**Part II - General Qualifications**


(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>AMEC Environment &amp; Infrastructure, Inc. (Gainesville)</b>			3. YEAR ESTABLISHED <b>1994</b>	4. DUNS NUMBER <b>03-808-6125</b>
2b. STREET <b>404 SW 140th Terrace</b>			<b>5. OWNERSHIP</b>	
2c. CITY <b>Newberry</b>			2d. STATE <b>FL</b>	2e. ZIP CODE <b>32669-3000</b>
6a. POINT OF CONTACT NAME AND TITLE <b>Mark C. Diblin, PG, Office Manager</b>			a. TYPE <b>Corporation</b>	
6b. TELEPHONE NUMBER <b>352-332-3318</b>			b. SMALL BUSINESS STATUS <b>not applicable</b>	
6c. E-MAIL ADDRESS <b>mark.diblin@amec.com</b>			7. NAME OF FIRM (if block 2a is a branch office) <b>AMEC Environment &amp; Infrastructure, Inc.</b>	
8a. FORMER FIRM NAME(S) (if any) AMEC Earth & Environmental, Inc. (2000 – 2011) AGRA Earth & Environmental, Inc. (1994 – 2000) <b>Merger History:</b> AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)			8b. YR. ESTABLISHED 1994 1994	8c. DUNS NUMBER 038086125 803037522

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below) Branch (Firm)
		(1) FIRM	(2) BRANCH			
07	Biologists	133	2	C14	Conservation and Resource Management	2 (9)
08/29	CADD Technicians/GIS Specialists	250	2	C15	Construction Management	3 (10)
11	Chemists	32	1	D01/D02	Dams; Dikes; Levees	(9)
12	Civil Engineers	309	3	D04	Design-Build	3 (10)
15/16	Construction Inspectors/Managers	195	--	E01	Ecological & Archeological Investigations	2 (9)
19	Ecologists	19	2	E07	Energy Conservation; New Energy Sources	5 (9)
21	Electrical Engineers	18	1	E09	EIS, Assessments or Statements	2 (10)
23	Environmental Engineers	271	5	E11	Environmental Planning	7 (9)
24	Environmental Scientists	386	5	E12	Environmental Remediation	4 (10)
27/55	Foundation/Geotechnical/Soils Engineers	403	1	G04	GIS Services	1 (10)
30	Geologists	390	2	H03	Hazardous, Toxic, Radioactive Waste Remediation	(10)
42	Mechanical Engineers	36	5	H07	Highways; Streets; Airfield Paving; Parking Lots	(10)
48	Project Managers	145	--	P05/P07	Planning	(8)
50/59	Risk Assessors/Toxicologists	26	1	R03	Railroad, Rapid Transit	(10)
58	Technicians	1078	6	R04	Recreation Facilities (Parks, Marianas, Etc.)	2 (9)
62	Water Resources Engineers	187	2	R11	Rivers; Canals; Waterways; Flood Control	2 (10)
	Air Quality Specialists	51	10	S05	Soils & Geologic Studies; Foundations	(10)
	Project Services	795	9	S10	Surveying, Platting; Mapping; Flood Plain Studies	(8)
	Quality Assurance Specialists	2	1	T02	Testing & Inspection Services	(10)
	Other Professional Staff	787	--	U01	Unexploded Ordnance Remediation	(10)
<b>Total</b>		<b>5513</b>	<b>58</b>	W02	Water Resources; Hydrology; Ground Water	5 (10)

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	<b>10</b>	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	<b>10</b>	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	<b>10</b>	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 2/18/2014
c. NAME AND TITLE <b>Mark C. Diblin, PG, Office Manager</b>	

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 330 (6/2004)

**ARCHITECT-ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (if any)

**Part II - General Qualifications**

*(If a firm has branch offices, complete for each specific branch office seeking work.)*

2a. FIRM (OR BRANCH OFFICE) NAME <b>AMEC Environment &amp; Infrastructure, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. DUNS NUMBER <b>03-808-6125</b>
2b. STREET <b>4919 West Laurel Street</b>			<b>5. OWNERSHIP</b>	
2c. CITY <b>Tampa</b>	2d. STATE <b>FL</b>	2e. ZIP CODE <b>33607</b>	a. TYPE <b>Corporation</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Carl Christmann, PE, Tampa Office Manager</b>			b. SMALL BUSINESS STATUS <b>not applicable</b>	
6b. TELEPHONE NUMBER <b>(813) 289-0750</b>		6c. E-MAIL ADDRESS <b>carl.christmann@amec.com</b>		
7. NAME OF FIRM (if block 2a is a branch office) <b>AMEC Environment &amp; Infrastructure, Inc.</b>				

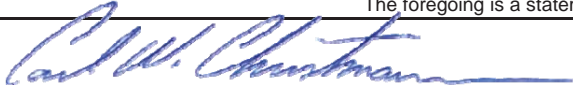
8a. FORMER FIRM NAME(S) (if any)		8b. YR. ESTABLISHED	8c. DUNS NUMBER
AMEC Earth & Environmental, Inc. (2000 – 2011)		1994	038086125
AGRA Earth & Environmental, Inc. (1994 – 2000)		1994	803037522

**Merger History:** AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.); Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below) Branch (Firm)
		(1) FIRM	(2) BRANCH			
5	Archeologists	75	--	C14	Conservation and Resource Management	4 (9)
07	Biologists	133	--	C15	Construction Management	3 (10)
08/29	CADD Technicians/GIS Specialists	250	--	D01/D02	Dams; Dikes; Levees	3 (9)
12	Civil Engineers	309	1		Design-Build	2 (10)
15/16	Construction Inspectors/Managers	195	1	E01	Ecological & Archeological Investigations	3 (9)
23	Environmental Engineers	271	2	E07	Energy Conservation; New Energy Sources	(9)
24	Environmental Scientists	386	1	E09	EIS, Assessments or Statements	5 (10)
27/55	Foundation/Geotechnical/Soils Engineers	403	5	E11	Environmental Planning	4 (9)
30	Geologists	390	4	E12	Environmental Remediation	4 (10)
34	Hydrologists/Hydrogeologists	109	--	G04	GIS Services	2 (10)
36	Industrial Hygienists	63	--	H03	Hazardous, Toxic, Radioactive Waste Remediation	1 (10)
40	Materials Engineers	33	1	H07	Highways; Streets; Airfield Paving; Parking Lots	3 (10)
48	Project Managers	145	1	P05/P07	Planning	(8)
57	Structural Engineers	57	--	R03	Railroad, Rapid Transit	2 (10)
58	Technicians	1078	14	R04	Recreation Facilities (Parks, Marianas, Etc.)	2 (9)
60	Transportation Engineers	64	2	R11	Rivers; Canals; Waterways; Flood Control	2 (10)
62	Water Resource Engineers	187	--	S05	Soils & Geologic Studies; Foundations	5 (10)
	Air Quality Specialists	51	--	S10	Surveying, Platting; Mapping; Flood Plain Studies	3 (8)
	Project Services	797	3	T02	Testing & Inspection Services	5 (10)
	Other Professional Staff	517	--	U01	Unexploded Ordnance Remediation	(10)
<b>Total</b>		<b>5513</b>	<b>35</b>	W02	Water Resources; Hydrology; Ground Water	4 (10)

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>	a. Federal Work	<b>10</b>	PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
	b. Non-Federal Work	<b>10</b>	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million		
	c. Total Work	<b>10</b>	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
			3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
			4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
			5. \$1 million to less than \$2 million	10. \$50 million or greater		

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE <b>3/7/2014</b>
c. NAME AND TITLE <b>Carl Christmann, PE, Tampa Office Manager</b>	



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## Section 2 References/Projects of Similar Scope

# Lake Seminole Sediment Removal

## Scope

Lake Seminole is a highly eutrophic lake located in Pinellas County, Florida, that is currently listed by FDEP and the EPA as an impaired waterbody pursuant to Section 393(d) of the federal Clean Water Act. The pollutants are nutrients (primarily phosphorus forms) that are present in elevated forms in water column and sediments.

This shallow, 684-acre, fresh water lake has been negatively impacted by nuisance sediments that impair water quality, cause habitat degradation, and impede recreational uses. The Lake Seminole Watershed Management Plan (2001) and The Lake Seminole Reasonable Assurance Plan (2007) recognize that the organic sediments are linked to the lake's nutrient-related impairment. The lake's approximately 3,500-acre watershed is highly urbanized, with commercial and residential land uses comprising most of the land service.

Prior to the mid-1940s Lake Seminole was an estuarine waterbody. It was converted to a freshwater system by the construction of a roadway which acted as a dam. This construction altered the lake's salinity regime from brackish to fresh, and the construction of the dam and several additional hydrologic modifications in the watershed have substantially reduced its flushing rate and increased its hydraulic residence time. The lake has also received discharges of untreated or minimally treated stormwater runoff from a variety of urban land uses for decades.

AMEC was retained in 2010 to provide professional environmental and engineering services requisite to the development of the Lake Seminole Dredging Project to remove approximately 1 million cubic yards of sediments from the lake. AMEC is providing assistance with the engineering, analytical, design, permitting, and administrative support services associated with the removal, processing, and disposal of the nuisance, nutrient rich sediments from within the lake.



AMEC's task assignments associated with this project, and currently in progress, include:

- Bathymetric and sediment surveys
- Physical, nutrient, and chemical characterizations of the sediment including moisture content and wet sieve analysis, specific gravity test, and total organic content analysis
- Geophysical and geotechnical site investigations
- Dredging and process design including prioritization of sediment laden areas; evaluation of sediment characteristics, volumes and material balance; and dredge and pumping system design
- Disposal area and structural foundation design
- Storm and sediment water management design
- Project plans
- Design report
- Permitting including agency communication and coordination; ERP permit applications; and permit RAI responses
- Public outreach
- Construction operations oversight and technical guidance

### Client

- Pinellas County

Kelli Hammer Levy, CPM  
 Section Manager  
 300 S Garden Ave  
 Clearwater, Florida  
 USA 33756  
 727.464.4425 (p)  
 727.464.4403 (f)  
 Email: klevy@pinellascounty.org

### Location

- Pinellas County, Florida

### Key Staff

- Walter Reigner, PE, CPESC
- Scott Wuitschick, PE
- Timothy Kelly, PE, CPSWQ, CPESC
- Jeffrey Beriswill, PE
- Leon Seale, PE
- Mark Chomtid, PhD, PE
- Allan Biddlecomb, PG

### Start Date

- 2010

### Completion Date

- Ongoing



# Tampa Waterway Management Projects

## Client

- City of Tampa

Ben Koplin  
 Environmental Specialist,  
 Stormwater Department  
 306 East Jackson Street  
 Suite 6N  
 Tampa, Florida  
 USA 33602  
 813.274.8371 (p)  
 813.274.7176 (f)  
 Email: heather.maggio@  
 ci.tampa.fl.us

## Location

- Tampa, Florida

## Key Staff

- Walter Reigner, PE, CPESC
- Dave Butcher, PE, LEED AP
- Scott Wuitschick, PE
- Les Bromwell, ScD, PE
- Carl Christmann, PE
- John Kiefer, PhD, PE, PWS
- Leon Seale, PE
- Kevin Shelton
- Aziza Baan, GISP
- Mark Jones

## Start Date

- 2008

## Completion Date

- Ongoing

## Scope

AMEC was retained to provide professional engineering services in support of the City of Tampa's waterway management projects. This special assessment program includes design of dredging projects at various locations throughout the City including but not limited to the Westshore area and Davis Islands.

The projects are partially funded by the U.S. EPA thereby requiring a substantial environmental enhancement element. Individual projects will typically be performed in three phases: project delineation and survey, preliminary design and permitting, and plans preparation and construction support services.

Tasks included:

- Document preparation for compliance with the National Environmental Policy Act (NEPA)
- Preparation of an Environmental Impact Document (EID) in accordance with EPA Section 40 CFR 31.36
- Survey of the existing conditions
- Development of proposed dredging plans
- Exploration of alternative dredging methods/scenarios
- Identification and permitting of spoil disposal
- Methods and mechanisms to improve water circulation
- Estimates of project costs
- Development of design criteria for City or agency approval
- Public meetings and workshops
- Coordination with permitting agencies
- Construction plan production
- Project permitting
- Construction staging



AMEC has delineated and inventoried areas that currently do not meet the desired level of service of at least 3 feet of clearance at Mean Low Water (MLW) level within 15 canals in the Westshore area in order to apportion costs and facilitate volumetric calculations. AMEC has identified disposal sites suitable for NEPA and SWFWMD co-funding.

# Lake Hollingsworth Restoration Project

## Scope

Lake Hollingsworth is a 350-acre urban lake located in the City of Lakeland, Florida. The lake is a popular recreational area for city and county residents but suffered from sediment accumulation and poor water quality.

In 1996, AMEC was retained by the City of Lakeland Public Works Department to develop plans and provide CEI services for the removal of organic sediments that covered approximately 75 percent of the lake bottom. Muck deposits ranged in thickness from one foot to more than twenty feet.

Elements of the project involved the permitting and removal of 3.6 million cubic yards of sediment. Materials handling, location of sufficient spoil areas, and dewatering were major challenges for the project team.

Several key elements of the project included the development and design of flocculation methods, disposal area specifications and dredging. Prior to the start up of full scale operations, a pilot project was conducted to test new dewatering methodologies.

Original disposal plans were redesigned and enlarged due to unusually heavy precipitation (El Niño) in 1997 and 1998. As a result, dredge spoil was pumped a distance of five miles via an 18-inch diameter Plexco pipeline that was installed through the Cleveland Heights Golf Course.

The dredge was constructed to meet the requirements and construction constraints of the project. It was equipped with GPS equipment that allowed accurate positioning within the lake. Final cost for sediment removal at Lake Hollingsworth was approximately \$4 per cubic yard. Major grants from the EPA and SWFWMD were obtained to assist in project funding.

The EPA awarded AMEC \$3 million in grants to test the state-of-the-art dewatering technique.



### Client

- City of Lakeland

Richard Lilyquist, PE  
 Director of Public Works  
 228 S. Massachusetts Ave.  
 Lakeland, Florida  
 USA 33801  
 863.834.6040 (p)  
 863.834.8040 (f)  
 Email: richard.lilyquist@lakelandgov.net

### Location

- Lakeland, Florida

### Key Staff

- Walter Reigner, PE, CPESC
- Timothy Kelly, PE, CPSWQ, CPESC
- John Kiefer, PhD, PE, PWS
- David Butcher, PE, LEED AP
- Mark Jones

### Start Date

- 1996

### Completion Date

- 2001

# Lake Rowell Aquatic Enhancement

## Scope

AMEC provided engineering design support for the removal of approximately 1.5 million cubic yards of sediment to restore the aquatic habitat of Lake Rowell on behalf of FWC. The lake's popular fishery and avifaunal habitats have been adversely affected by artificially accumulated fibrous organic sediments and muck. The sediments, derived largely from previous human-induced nutrient sources, have created excessive internal nutrient cycling that supports nuisance algal blooms and dense rafts of nuisance exotic vegetation (*hydrilla*) that limit native vegetation growth. The sediment condition of the lake is now affecting Lake Sampson, located immediately downstream, causing detrimental grass formation.



AMEC project tasks included:

- Preliminary dredge designed to demonstrate a few alternatives most likely to meet the objectives of the project and meet permitting requirements
- Data collection and review including reports, maps, aerial photographs, design plans, etc.
- Sediment assessment, characterization, and testing to facilitate cost-effective restoration design
- Determination of sediment volume increase and the settling and dewatering characteristics of the sediment
- Assisted FWC with selection of dredge material disposal site alternatives based on environmental impacts, groundwater, wetlands, proximity to public resources, safety, site access, pipeline routes to dredge site, ease of construction, costs, and schedule
- Cost estimates for three alternatives
- Preliminary Basis of Design booklet
- Preliminary project plans



Preliminary regulatory consultation was initiated as part of this project. Alternative containment site evaluations included outreach to a variety of landholders, and initiating dialogue with property owners and stakeholders on the potential beneficial use of sediment specific to each property.

### Client

- Florida Fish and Wildlife Conservation Commission

Bruce Jagers  
Biological Scientist  
601 W. Woodward Avenue  
Eustis, Florida  
USA 32726  
352.357.2398 (p)  
352.357.2941 (f)  
bruce.jagers@myfwc.com

### Location

- Bradford County, Florida

### Key Staff

- Walter Reigner, PE, CPESC
- Les Bromwell, ScD, PE
- John Kiefer PhD, PE, PWS
- Carl Christmann, PE
- Jie Gao, PE, CFM
- Leon Seale, PE
- Timothy Howard
- Aziza Baan, GISP

### Start Date

- 2008

### Completion Date

- 2009

# Chassahowitzka Springhead Restoration

## Scope

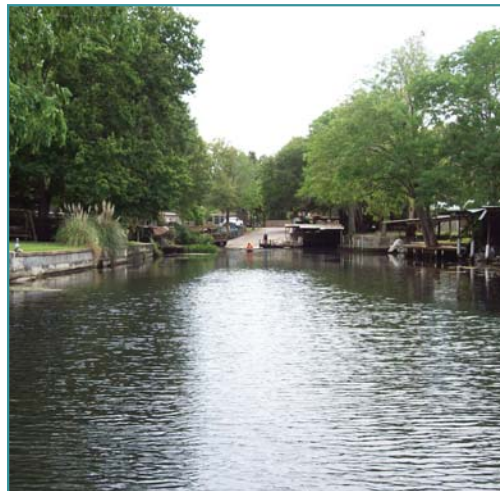
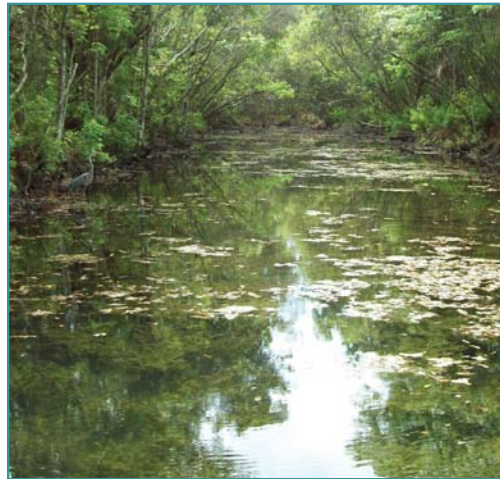
AMEC provided a dredging feasibility assessment, as well as design and permitting, construction, and dredging management services under a master engineering services contract for the removal of 3,000 cubic yards of sediment and woody debris from the Chassahowitzka headspring.

Chassahowitzka Spring is a first-magnitude springs complex that feeds the Chassahowitzka River, a designated Outstanding Florida Waterway, famous regionally as a passive recreational destination. The majority of the Chassahowitzka River system is publicly-owned. Approximately 3,000 cubic yards of sediment had accumulated in and around the headspring, significantly reducing flow volume and visibility. Removal of the sediment improved water quality within the Chassahowitzka headspring and near downstream area. Dredging soft sediment provided a suitable substrate for the establishment and regeneration of desirable submerged aquatic vegetation and improved aquatic habitat.

The dredging design plan had few to no restrictions on public access, boat launching, and navigation, and had limited impacts to manatee feeding and migration.

Specific AMEC project tasks included:

- Detailed site assessment including sediment surveys and dredging plan involving sediment core sampling using piston-tube sampler, estimate of removal volume, and sediment characterization and contaminant assessments
- Design and permitting of sediment removal including utility location and identification of sediment disposal area options
- Design and permitting of BMPs to be implemented within the canals upstream of the headspring



- Public education plan to reduce pollutants within the canals and headspring
- Dredging and construction technical specifications
- Engineering cost estimate
- Construction/dredging management

### Client

- Citrus County Public Works

Larry Brock  
 Operations & Projects Officer  
 3600 W. Sovereign Path  
 Lecanto, Florida  
 USA 34461  
 352.527.5202 (p)  
 352.527.5204 (f)  
 Email: larry.brock@bocc.citrus.fl.us

### Location

- Citrus County, Florida

### Key Staff

- Walt Reigner, PE, CPESC
- Carl Christmann, PE
- Leon Seale, PE
- Pavan Kolukula, EI

### Start Date

- 2008

### Completion Date

- 2009

# Lake Griffin Canal Dredging and Eustis Muck Farm Wetland Restoration

## Scope

Lake Griffin is a 9,300-acre lake at the headwaters of the Ocklawaha River in Lake County, Florida. AMEC provided evaluation, design, and construction support services of a project to remove sediment from more than 30 canals ringing the lake and to place those sediments in a confined section of a subsided muck farm in order to restore wetlands.

This project required AMEC's expertise in:

- Water resource engineering (disposal site impoundment water budget)
- Hydraulic system design (floating pipeline with booster pumps)
- Water quality treatment (alum and polymer feeds for turbidity control)
- Geotechnical engineering (slope stability, embankment design, settling and consolidation of mixed media slurry)
- Construction support services (bid specifications and plans, contractor screening and selection, engineering inspections, progress payment review, permit compliance review, and landowner coordination)
- Wetland science

Unique components of the project included:

- Long transport distances (5 to 12 miles) from the canals to the disposal site
- Highly variable composition of the dredged sediment (unconsolidated sands, flocculent muck, consolidated muck, and cohesive clay)
- A requirement for precise sediment deposition at a subsided muck farm to cap pesticide contamination hotspots while simultaneously maintaining several feet of water over the disposal site
- The project was completed by the lowest bidder without change orders under AMEC's inspection and coordination program



### Client

- Lake County Water Authority

Ron Hart  
Water Resources Manager  
107 North Lake Avenue  
Tavares, Florida  
USA 32778  
352.343.3777 (p)  
352.343.4259 (f)  
Email: ronh@lcwa.org

### Location

- Leesburg, Florida

### Key Staff

- Walter Reigner, PE, CPESC
- John Kiefer, PhD, PE, PWS
- Carl Christmann, PE
- Mark Jones

### Start Date

- 2003

### Completion Date

- Design: 2004
- Construction: 2008

# Lake Maggiore Aquatic Enhancement

## Scope

AMEC conducted a feasibility study of Lake Maggiore for the City of St. Petersburg to determine the most effective method of removing organic sediment from the bottom of the 350-acre lake located in a highly urbanized area. The project's purpose was to improve highly impacted water quality, habitat, and navigation.

There were a number of components that made this project unique. AMEC worked with the governor and his cabinet to successfully obtain project permits because of Pinellas County's environmental designation as "Aquatic Preserve." It was determined that approximately 2.3 million cubic yards of sand and highly organic sediment would need to be removed to achieve optimum restoration. Studied sediment removal methods included hydraulic dredging and lake drawdown/mechanical excavation.

The method selected for bidding was hydraulic dredging. Sediment reuse options that were studied included in-lake disposal areas, remote disposal, and production of beneficial/usable products. AMEC designed and permitted a specialized de-sanding and dewatering system. A dredge contractor was selected, and project implementation concluded in 2008.



### Client

- City of St. Petersburg

Mike Connors  
 City Hall  
 175 Fifth St. N.  
 St. Petersburg, Florida  
 USA 33701  
 727.893.7841 (p)  
 727.892.5365 (f)  
 Email: Michael.Connors@stpete.org

### Location

- St. Petersburg, Florida

### Key Staff

- Walter Reigner, PE, CPESC
- John Kiefer, PhD, PE, PWS
- Mark Jones

### Start Date

- 1995

### Completion Date

- Engineering: 2005
- Construction: 2008

# Taylor Creek Restoration Dredging

## Scope

### Client

- St. Lucie County

Donald West, PE  
 County Engineer  
 2300 Virginia Avenue  
 Fort Pierce, Florida  
 USA 34982  
 772.462.1485 (p)  
 772.462.2362 (f)  
 Email: westd@stlucieco.org

### Location

- Fort Pierce, Florida

### Key Staff

- Les Bromwell, ScD, PE
- Walter Reigner, PE, CPESC
- Michael Kelley, PE
- James Bailey

### Start Date

- 2001

### Completion Date

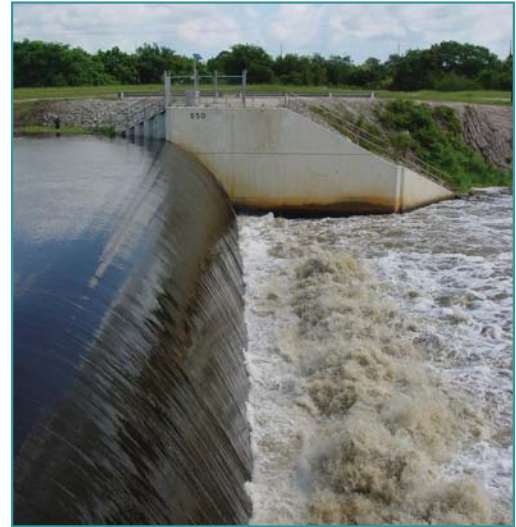
- 2009

AMEC investigated and evaluated alternative upland disposal sites for three phases (sediment removal and management feasibility, design and permitting, and bid specification and contractor selection) of sediment removal and restoration of Taylor Creek, a coastal stream flowing into the Indian River Lagoon (IRL). AMEC's scope of work included preparation of permit applications; coordination with local, state, and federal agencies; sediment sampling and characterization; calculation of volume requirements for disposal; engineering design and construction monitoring of upland disposal area; and monitoring and testing during dredging and material placement.

The ultimate goal of this project was to hydraulically remove and temporarily store approximately 200,000 cubic yards of sediment in one of two temporary upland dredged material management sites located on the St. Lucie Port property. After dewatering, the sediment was hauled to the county landfill for use as cover material. The removal of the sediment should reduce further discharge of fine-grained, organic bearing sediment to the IRL and reestablish both navigation and the sediment traps in Taylor Creek.

The project area consists of the westerly edge of the Intracoastal Waterway (ICW) right-of-way to the SFWMD Canal No. C-25 spillway (S-50 structure) and the Fort Pierce Farms Water Control District Canal No. 1 (F-1 Spillway). The project is broken down into two reaches. Reach No. 1 is the area between the westerly edge of the ICW channel and the Florida East Coast Railroad (FECRR) Bridge, and Reach No. 2 is the area between the FECRR and the Spillway (S-50 structure) at the C-25 Canal and the submerged weir at the F-1 (North) Canal on the west.

Approximately 120,000 cubic yards of sediment was removed from Reach No. 1. This includes 90,000 cubic yards of sediments from the previously designed navigation channel (100 to 140 feet wide; -12.5 feet MSL) and an additional 30,000 cubic yards north and south of the navigation channel to the shoreline. Reach No. 2 entailed removal of approximately 80,000 cubic



yards of sediment to reestablish the design channel depth to approximately -12.5 feet MSL and 140 feet wide. Reach No. 2 also underwent a shoreline restoration that included shoreline stabilization, improvement, and protection.

Specific objectives of the project included:

- Building project consensus through public involvement
- Investigating and recommending innovative sediment dewatering strategies (technologies) and temporary dredged material management site(s)
- Developing a material management strategy, which included material processing, handling, and beneficial utilization
- Confirming sediment bathymetry and volumes for removal
- Designing a dredged material management facility, including construction drawings and specifications
- Reevaluating the total project cost
- Preparing and submitting an ERP
- Developing bid specifications and assisting with contractor selection
- Construction monitoring and materials testing (QA/QC) during construction and dredging

# FIND MSA 0-7 DMMA

## Scope

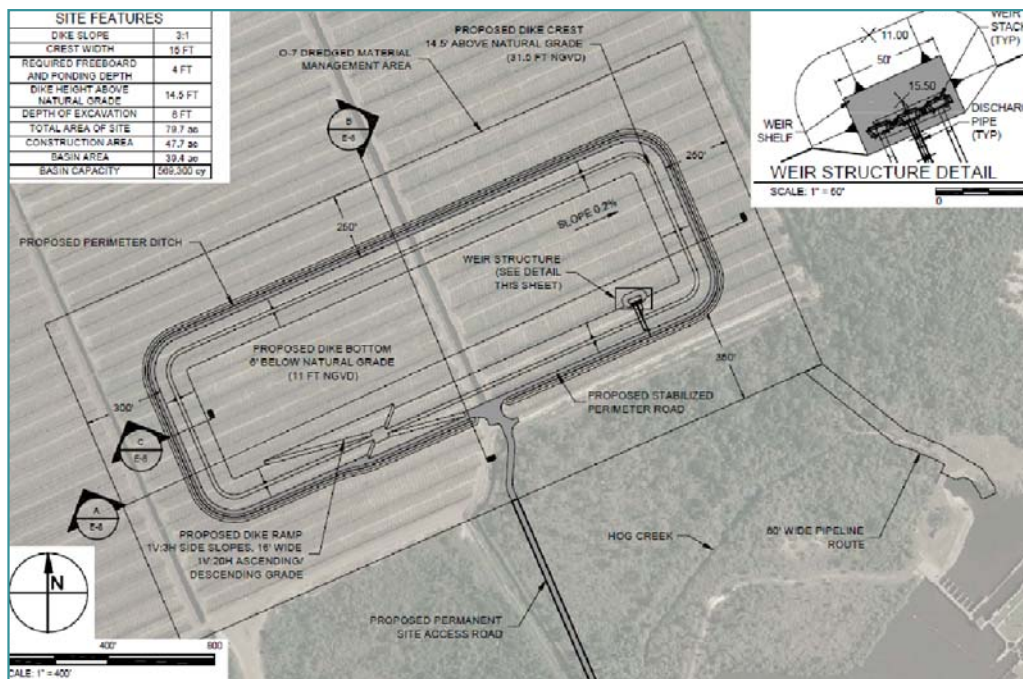
AMEC was contracted by Taylor Engineering, Inc., through their client, the Florida Inland Navigation District (FIND), to provide geotechnical engineering services for a proposed 39-acre dredged material management area (DMMA) and associated infrastructure. The project site is located on the north side of the Okeechobee Waterway (OWW), near the St. Lucie Lock and Dam, about 5,500 feet south-southwest of the intersection of Florida's Turnpike and I-95 in Martin County, Florida.

The proposed DMMA will have a storage capacity of 569,300 cubic yards. The DMMA will have a dike crest elevation that is about 14.5 feet above the existing grade. The DMMA will have a dike crest width of 15 feet, 3:1 (H:V) dike side slopes, and a basin bottom elevation that is 20 feet below the dike crest. A pile-supported overflow weir structure will be located near the southeastern corner of the proposed DMMA. This DMMA will receive, dewater, and temporarily store material removed from Reach IV of the Okeechobee Waterway (OWW) during maintenance dredging operations. In addition,

a 9,650-foot long, unpaved access roadway and two small bridges will be constructed to provide access to the DMMA.

AMEC performed a geotechnical exploration for this project that consisted of 24 SPT borings to depths of 30 to 60 feet each along the proposed perimeter dike alignment, and 16 auger borings to a depth of 10 feet each in the interior of the proposed DMMA. For the proposed roadway and bridges, AMEC performed 24 auger borings to a depth of 6 feet each, and two SPT borings to a depth of 50 feet each for each of the two proposed bridges.

Laboratory testing consisted of moisture content, fines content, organic content, Atterberg limits, carbonate content, consolidation, Proctor compaction, hydraulic conductivity, triaxial compression, and Limerock Bearing Ratio (LBR). Engineering services consisted of multiple seepage and stability analyses for the proposed dikes, pile capacity analyses for the proposed weir structure and bridges, and subgrade evaluations for the proposed roadway.



### Client

- Taylor Engineering, Inc.

Lori Brownell, PE  
 Director of Waterfront Engineering  
 10151 Deerwood Park, Bldg 300 Suite 300  
 Jacksonville, Florida USA 32256  
 904.256.1367 (p)  
 Email: lbrownell@taylorengeering.com

### Location

- Martin County, Florida

### Key Staff

- Kirk McIntosh, PE
- Mike Woodward, PE
- Zhihong Hu, PhD, PE
- Brian Hathaway, PE
- Scott Gutowski, EI
- David Johns Jr.

### Project Cost

- \$66,000

### Start Date

- 2009

### Completion Date

- 2011



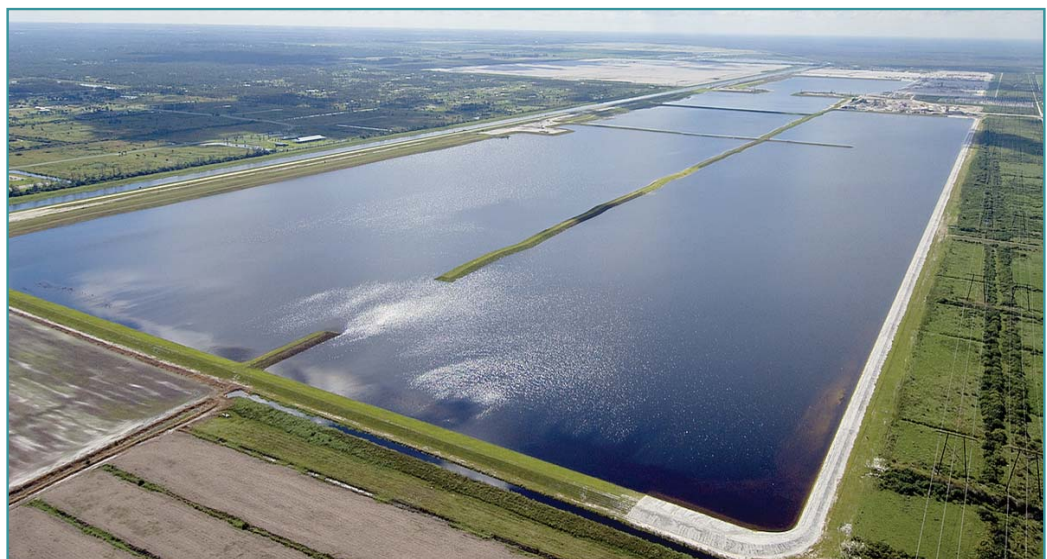
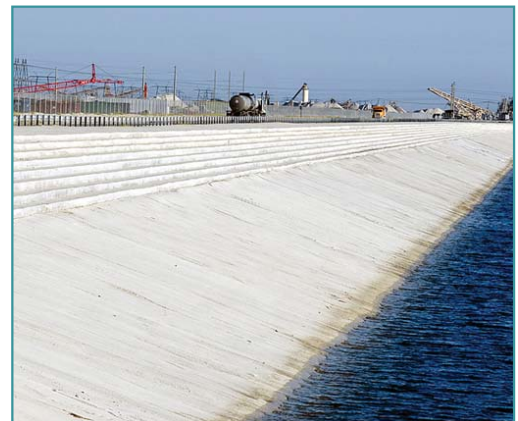
# L-8 Reservoir Dredging

## Scope

The SFWMD Loxahatchee Reservoir is a critical component of the Comprehensive Everglades Restoration Plan (CERP) and is the first public/private project completed under this plan. This 1,000-acre water storage area was created in a former limestone quarry. AMEC was retained by PBA Holdings, Inc. to provide comprehensive design and construction support and to serve as the engineer of record.

PBA converted mined rock pits into water storage reservoirs by implementing a dredging program to deepen the excavations to an elevation of -42 feet NAVD. The process required analysis of the materials to be dredged, design of disposal areas for the material and optimization of the process to minimize the amount of fine-grained sediments in the hydraulic fill.

Approximately 35 million cubic yards of material were dredged to create the reservoir. AMEC analyzed underwater slopes to minimize long-term erosion during hurricane events and filled disposal areas in a manner to allow for the construction of a power plant and residential development adjacent to the reservoir.



### Client

- South Florida Water Management District
- PBA Holdings, Inc.

Lin Riley, Jr.  
 Vice President  
 2100 Fairfax Road  
 Suite 101D  
 Greensboro, North Carolina  
 USA 27407  
 865.599.3859 (p)  
 828.584.0831 (f)  
 Email: lriley@pandj.com

### Location

- Palm Beach County, Florida

### Key Staff

- Les Bromwell, ScD, PE
- Carl Christmann, PE
- Jeff Beriswill, PE

### Start Date

- 2004

### Completion Date

- 2007



**CURTIS PORTERFIELD**  
Lakes & Stormwater Manager

**PUBLIC WORKS DEPARTMENT**  
**LAKES & STORMWATER DIVISION**

June 30, 2014

This letter is a reference letter from the City of Lakeland for AMEC Environment & Infrastructure, Inc. The City of Lakeland contracted with BCI (now AMEC) in 1994 to conduct a muck removal feasibility study and oversee dredging operations for Lake Hollingsworth. Attached with this letter is a brief overview of that project. The dredging in Lake Hollingsworth was deemed successful and water quality has since improved dramatically. AMEC continues to work with the City of Lakeland on various water quality and municipal engineering projects and has always provided excellent professional services. I would recommend their team of engineers and scientists to oversee any City of Lakeland projects and I am confident they would provide you with the same level of expertise and service for the Lake Apopka project. If you would like to speak with me concerning this reference, please feel free to contact me directly.

Sincerely,

Curtis Porterfield  
Lakes & Stormwater Manager  
Public Works | City of Lakeland  
407 Fairway Ave. Lakeland, FL 33801  
863/834-8439 (PH) | [curtis.porterfield@lakelandgov.net](mailto:curtis.porterfield@lakelandgov.net)

407 Fairway Avenue ❖ Lakeland, FL 33801-2467  
(863) 834 - 3300 ❖ [www.lakelandgov.net](http://www.lakelandgov.net)



**Lake County  
WATER AUTHORITY**

Michael J. Perry, Executive Director · Neil Kelly, Secretary-Treasurer

107 North Lake Avenue · Tavares, Florida 32778-3119 · (352) 343-3777 · Fax (352) 343-4259 · E-mail: info@lcwa.org · www.lcwa.org

July 1, 2014

I am contacting you to provide this letter of recommendation on behalf of AMEC Environment & Infrastructure, Inc.

The Lake County Water Authority has had a long and successful professional relationship with BCI Engineers and Scientists, which was brought into AMEC and with AMEC after the merger. The personnel associated with these firms have always provided first rate customer service and displayed superior technical abilities.

The Lake County Water Authority contracted with AMEC (BCI at the time) to provide design, permitting and construction management services for two separate major dredging projects in Lake County. The first was the Lake Griffin Canal Dredging project which was intended to provide access to Lake Griffin from residential canals should the SJRWMD ever implement the revised fluctuation schedule for the Lake. The project including moving nearly 400,000 cubic yards of sediment from 35 canals around the lake and move the material up to 12 miles to a disposal area on SJRWMD-owned property. The other is the Lake Beauclair Restoration project. This project was to remove an estimated 1.5 million cubic yards of sediment from the terminus end of the Apopka Beauclair Canal that was impeding navigation, particularly during low water periods, and causing water quality and habitat degradation. The project also involved moving the material nearly seven miles to a disposal area on SJRWMD-owned property.

For both projects, BCI/AMEC accomplished all of the pre-project due diligence including sediment and water quality sampling and geotech work necessary to fully understand the issues, design the appropriate cost-effective solutions, secure all of the necessary permitting and provided construction management and monitoring services.

BCI/AMEC created the designs for the dredging and disposal areas for both projects. Both projects required overcoming unique and significant design challenges related to long distance pumping of the dredge spoils and to receive the material and manage the disposal areas. In the

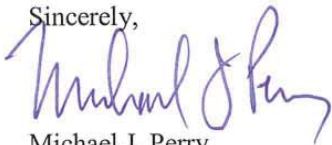
case of the Beauclair Restoration project, the disposal area became a bit of a moving target and the designs had to be modified several times to accommodate the needs of the partnering agencies and to provide assurance to the public that the projects will be completed in a thorough and professional manner. BCI/AMEC personnel managed the disposal areas to ensure material was placed to create desirable bird and other wildlife habitat and to protect against potential fish kills in the spoil area near the sensitive areas of the north shore of Lake Apopka . In both projects alum and a polymer were successfully used to enhance settling of flocculent materials. BCI/AMEC personnel selected the appropriate types of polymers and adjusted the type or dosage rate to achieve the most effective settling rates.

During each of the projects, BCI/AMEC personnel met regularly with the dredging contractor and the Water Authority staff to ensure timely status updates and resolutions to any potential problems. This attention to the process and coordination with the contractor, stakeholders and cooperating agencies resulted in both projects completed on-time, within budget and with no changes orders or additional work.

They possess a seasoned team of technical professionals able to understand the issues, design effective solutions, secure permits and manage and monitor the project while providing strong customer service to the client and the local community. These unique qualities have resulted in the successful completion of two major, complex dredging/restoration projects in Lake County. I would have no reservations in recommending AMEC highly for any future dredging and or restoration projects.

Please contact me if you would like to discuss any of these projects, or this letter of recommendation further.

Sincerely,



Michael J. Perry  
Executive Director

**BOARD OF COUNTY  
COMMISSIONERS**

Charlie Justice  
Susan Latvala  
Janet C. Long  
John Morroni  
Norm Roche  
Karen Williams Seel  
Kenneth T. Welch



July 8, 2014

Pinellas County Watershed Management hired AMEC in 2011 to study the feasibility of and subsequently design a whole-lake dredge project for Lake Seminole. Lake Seminole is a 684 acre hypereutrophic system located in west-central Pinellas County.

AMEC performed bathymetric investigations, soil characterizations, surveys, toxicity tests, and other tests on the accumulated sediments. They then developed several scenarios for removal and ultimately designed a construction project that's goal is to successfully remove the organic sediments. During the design phase AMEC developed plans and specifications, procured permits, and coordinated with various stakeholders.

We were very impressed by AMEC's field staff who provided superior services (e.g. surveys, habitat assessments) in a timely manner. The reports they provided were precise, well researched and well written. They made for excellent reference material during the permitting process and overall project development. AMEC field staff excelled at problem solving when site conditions changed and always exhibited a positive attitude.

AMEC provided services during permitting with the Florida Department of Environmental Protection (FDEP) and the United States Army Corp of Engineers (USACOE). AMEC staff coordinated with the permitting agencies to ensure a smooth permitting process. They developed strong applications that had few requests for additional information and when information was needed AMEC responded immediately in a thorough and concise manner. AMEC staff went the extra mile to make sure the reviewers had everything they needed and they kept in constant contact so as to not let anything fall through the cracks.

Overall, Pinellas County has had a favorable experience with AMEC on this project and we look forward to working with them through the successful completion of our project. Please feel free to contact us if you have any further questions.

Regards,

A handwritten signature in blue ink that reads "Kelli Hammer Levy".

Kelli Hammer Levy  
Pinellas County Natural Resources Manager  
(727)464-3317  
klevy@pinellascounty.org



**City of St. Petersburg**

Post Office Box 2842  
St. Petersburg, Florida 33731-2842  
Channel 35 WSPF-TV  
Telephone: 727 893-7171

July 9, 2014

AMEC (formerly BCI Engineers & Scientists) conducted a feasibility study and completed project permitting and design of the Lake Maggiore restoration project for the City of St. Petersburg. The project involved the effective removal of organic sediment from the bottom of a 380-acre lake located in a highly urbanized area of the City. The project's objective was to address a hypereutrophic lake by substantially reducing its trophic state index to improve highly impacted water quality, provide enhanced habitat, and increase navigability.

There were a number of components that made this project unique and somewhat complex. AMEC was required to elevate regulatory approval to the governor and cabinet to successfully obtain project permits because of the lakes environmental designation as an "Aquatic Preserve". It was determined that approximately 1.5 million cubic yards of highly organic sediment would be removed to achieve optimum restoration of the lake's natural bottom. The study determined that hydraulic dredging and subsequent mechanical dewatering of the sediment would be the most economical option.

AMEC assisted the City in oversight of the design and operation of a dewatering system that would facilitate successful removal of lake-bottom sands and maximization of solids concentration for offsite hauling. The project was publically bid and ER Jahna was selected by the City as the most responsive and advantageous bidder.

AMEC personnel provided periodic interface with the dredging contractor and City staff to ensure timely status updates and resolutions to any potential problems. Their attention to the process and regular collaboration with the contractor, stakeholders, and cooperating agencies helped achieve successful project implementation.

AMEC and Jahna staff provided a seasoned group of technical professionals and dredging practitioners who understood the unique issues, constraints, and solutions associated with sediment removal and lake restoration projects. These unique qualities have resulted in the successful completion of this complex dredging/restoration project for the City of St. Petersburg.

Sincerely,

Michael J. Connors  
Public Works Administrator

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## Section 3 Sample Insurance Certificate/ Licenses/Forms





# 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).

<b>PRODUCER</b> Aon Risk Services Northeast, Inc. Morristown NJ Office 44 Whippany Road, Suite 220 Morristown NJ 07960 USA	<b>CONTACT NAME:</b> PHONE (A.C. No. Ext): (866) 283-7122      FAX (A.C. No.): 800-363-0105		
	<b>E-MAIL ADDRESS:</b>		
<b>INSURED</b> AMEC Environment & Infrastructure, Inc. 1105 Lakewood Pkwy, Suite 300 Alpharetta GA 30009 USA	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	<b>INSURER A:</b> Zurich American Ins Co		16535
	<b>INSURER B:</b> ACE American Insurance Company		22667
	<b>INSURER C:</b> ACE Property & Casualty Insurance Co.		20699
	<b>INSURER D:</b> American Zurich Ins Co		40142
	<b>INSURER E:</b>		
<b>INSURER F:</b>			

Holder Identifier :

**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	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			G24554818	05/01/2014	05/01/2015	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$1,000,000 PRODUCTS - COMP/OP AGG \$1,000,000
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			BAP9483148-03	05/01/2014	05/01/2015	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY ( Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
C	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$10,000			X00G27238671	05/01/2014	05/01/2015	EACH OCCURRENCE \$1,000,000 AGGREGATE \$1,000,000
D	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N N	WC350486613	05/01/2014	05/01/2015	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE-EA EMPLOYEE \$1,000,000 E.L. DISEASE-POLICY LIMIT \$1,000,000
A	Archi t&Eng Prof DESCRIPTION OF OPERATIONS below			E0C938357806 SIR applies per policy terms & conditions	05/01/2014	05/01/2015	Any one Claim/Aggre \$1,000,000

Certificate No : 570053569272

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
Evidence of Insurance.

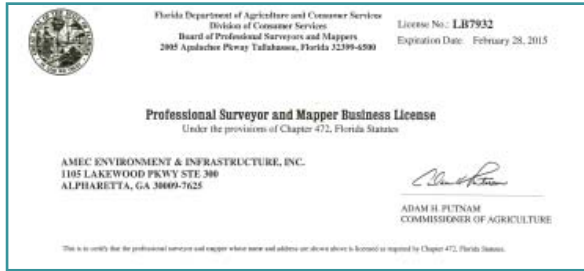
<b>CERTIFICATE HOLDER</b>  AMEC Environment & Infrastructure, Inc. 1105 Lakewood Parkway, Suite 100 Alpharetta GA 30009 USA	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  <b>AUTHORIZED REPRESENTATIVE</b>  <i>Aon Risk Services Northeast, Inc.</i>
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ACORD 25 (2014/01)

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Sample Insurance Certificate/  
Licenses/Forms

# Company Licenses



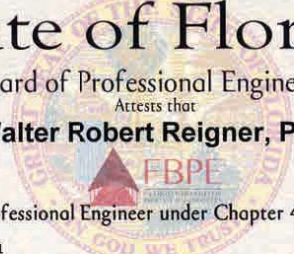
## Professional Licenses

**State of Florida**  
Board of Professional Engineers  
Attests that  
**Scott C. Wuitschick, P.E.**



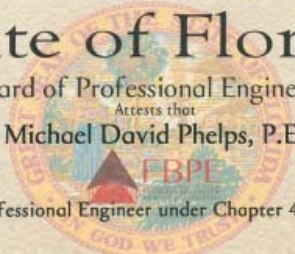
Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015 P.E. Lic. No: 54648  
Audit No: 228201518936

**State of Florida**  
Board of Professional Engineers  
Attests that  
**Walter Robert Reigner, P.E.**




Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015 P.E. Lic. No: 44118  
Audit No: 228201515491

**State of Florida**  
Board of Professional Engineers  
Attests that  
**Michael David Phelps, P.E.**



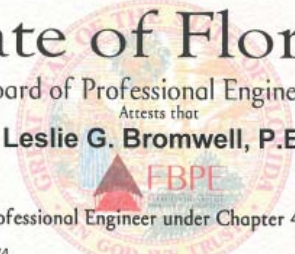
Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015 P.E. Lic. No: 53315  
Audit No: 228201502646

**State of Florida**  
Board of Professional Engineers  
Attests that  
**Michael Patrick Kelley, P.E.**



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015 P.E. Lic. No: 71736  
Audit No: 228201510673

**State of Florida**  
Board of Professional Engineers  
Attests that  
**Leslie G. Bromwell, P.E.**



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015 P.E. Lic. No: 18234  
Audit No: 228201514874

*State of Florida*  
Board of Professional Engineers

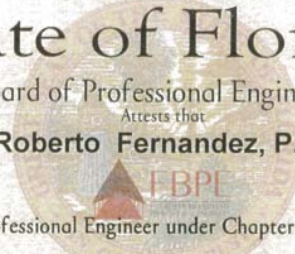
Glen Robert Andersen

*Has shown competency and fitness to practice Professional Engineering and has complied with all requirements of the Board of Professional Engineers; therefore by virtue of the powers vested in said Board by the State of Florida, the Florida Board of Professional Engineers hereby issues this certificate of licensure numbered 17201 to practice Professional Engineering in the State of Florida as provided by the laws of the state and subject to the powers vested in said Board.*

*In Testimony Whereof, Witness the signatures of the Chair and Vice Chair under the seal of the Board this 25 day of March, 2011.*



**State of Florida**  
Board of Professional Engineers  
Attests that  
**Roberto Fernandez, P.E.**



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015 P.E. Lic. No: 60070  
Audit No: 228201505642


RICK SCOTT, GOVERNOR      KEN LAWSON, SECRETARY


**STATE OF FLORIDA**  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION  
BOARD OF PROFESSIONAL GEOLOGISTS

**LICENSE NUMBER**  
PG1888

The PROFESSIONAL GEOLOGIST  
Named below IS LICENSED  
Under the provisions of Chapter 492 FS.  
Expiration date: JUL 31, 2016

BLONDIN, WENDY C  
158 BLUE HARBOR DRIVE  
TAVERNIER FL 33070





ISSUED: 07/15/2014      DISPLAY AS REQUIRED BY LAW      SEQ # L1407150001795



*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 its last anniversary, by that date, the individual shall have successfully completed recertification.*

*Certification Number: 2015-0001-0001*

Michael Tomford, GISP  
GISP Provider      Bruce Wilson, GISP  
GISP Executive Director

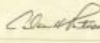


Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: LS4201  
Expiration Date: February 28, 2015

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

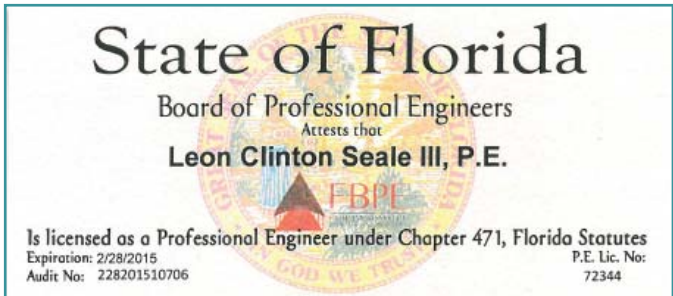
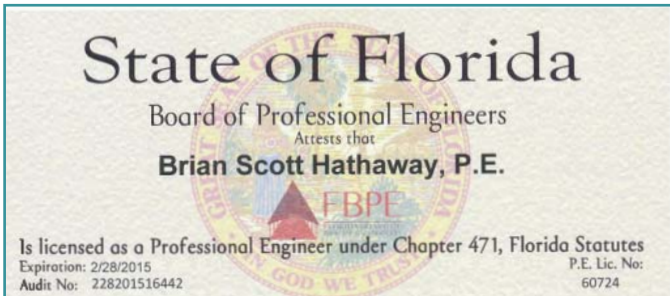
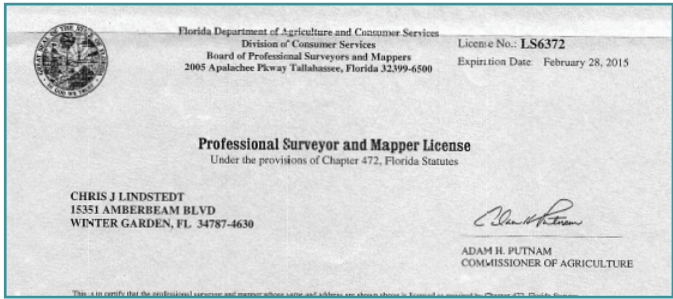
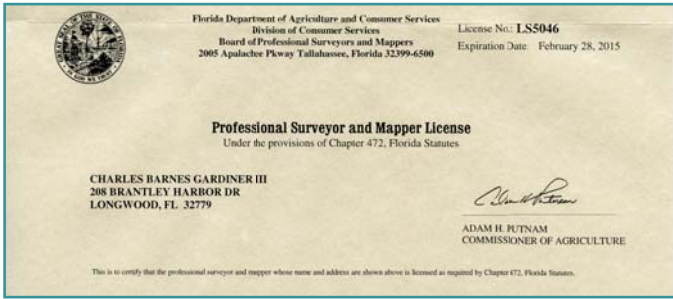
ROBERT MICHAEL JONES  
1300 FOXFIRE DR  
APOPKA, FL 32712-3015



ADAM H. PUTNAM  
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

## Professional Licenses Continued



# Minority Business Enterprise Certification - Dredging & Marine Consultants



Office of Supplier Diversity

## Dredging & Marine Consultants, LLC

**Active**

Profile   Commodity Codes

**Name:** Dredging & Marine Consultants, LLC  
**Shortname:** DMC  
**Business Designation:** corporation  
**Contact:** Shailesh Patel  
**Address:** 4643 S. Clyde Morris Blvd.  
                   Port Orange, FL 32129  
**County:** Volusia  
**Phone:** 386-304-6505  
**Fax:** 386-304-6506  
**Email:** spatel@dmces.com

### Designations

**ASIAN AMERICAN:** August 22, 2013 - August 22, 2015



**NON-COLLUSION STATEMENT:**

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

**3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).**

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

<u>NAME</u>	<u>RELATIONSHIPS</u>
N/A	
_____	_____
_____	_____
	_____
	_____

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

AMEC Environment & Infrastructure, Inc., certifies that this offer is made independently and free from collusion.

  
\_\_\_\_\_  
Signature

September 29, 2014  
\_\_\_\_\_  
Date

AMEC  
2000 East Edgewood  
Suite No. 215  
Lakeland, Florida 33803  
863.667.2345

