

# Memorandum



Date: July 22, 2015  
To: Tara C. Smith, Director  
Internal Services Department

From: Lester Sola, Director  
Miami-Dade Water and Sewer Department

Subject: Review Item: Geotechnical Services, Special Inspections, Structural Assessments, Soils, Foundations and Materials Testing Services related to the Improvement, Upgrades and Expansions of Water and Wastewater Treatment Plants, Pump Stations, Collection, Distribution and Transmission Piping, and all related Facilities as necessary to ensure Quality Control/Assurance for Water and Sewer Department's Capital Improvement Projects - Project No. E15-WASD-13

The Miami-Dade Water and Department (WASD) is requesting that the subject project be reviewed for Small Business Enterprise (SBE) measures for Architectural and Engineering (A/E) and Goods and Services (G/S), in order to proceed with the advertisement and subsequent consultant selection for this project.

WASD is seeking three (3) engineering firms to provide Geotechnical Services, Special Inspections, Structural Assessments, Soils, Foundations and Materials Testing Services related to the Improvement, Upgrades and Expansions of Water and Wastewater Treatment Plants, Pump Stations, Collection, Distribution and Transmission Piping, and all related Facilities as necessary to ensure Quality Control/Assurance for WASD's Capital Improvement Projects. A detailed scope of services is attached as "Notice to Professional Consultants." The term for each Non-Exclusive Professional Services Agreement (PSA) is ten (10) years. Maximum compensation is \$10,000,000, plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65. No minimum work or compensation will be assured to the retained consultants.

The Consultant providing engineering services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

Technical Category (TC)	Description	TC Percentage	SBE %
9.01 Prime	Soils, Foundations and Materials Testing-Drilling, Subsurface Investigations and Seismographic Services	45%	5%
9.02 Prime	Soils, Foundations and Materials Testing-Geotechnical and Materials Engineering Services	20%	3%
9.03 Prime	Soils, Foundations and Materials Testing-Concrete and Asphalt Testing Services	14%	3%
9.04 Other	Soils, Foundations and Materials Testing-Non-destructive Testing and Inspections	2%	1%

9.05 Other	Soils, Foundations and Materials Testing-Roof Testing and Consulting	3%	2%
9.06 Other	Soils, Foundations and Materials Testing- Material Testing/ Consulting/Training	5%	2%
10.02 Other	Environmental Engineering-Geology Services	6%	1%
10.05 Other	Environmental Engineering-Contamination Assessment and Monitoring	1%	1%
10.06 Other	Environmental Engineering-Remedial Action Plan Design	2%	1%
10.07 Other	Environmental Engineering-Remedial Action Plan/Implementation /Operation/Maintenance	2%	1%
<b>Total</b>		<b>100%</b>	<b>20%</b>

WASD is recommending a twenty percent (20%) SBE A/E and zero point twenty-five percent (0.25%) SBE G/S under this PSA. Attached are WASD's Departmental Input Worksheet and the Notice to Professional Consultants for your review and approval. Should you have any questions, please contact Patty David, Chief, Intergovernmental Affairs Section at pattyd@miamidade.gov or (786) 552-8040.

**Attachments**

c: Gary Hartfield, Assistant Director, Small Business Development

**MIAMI-DADE COUNTY, FLORIDA  
NOTICE TO PROFESSIONAL CONSULTANTS  
MIAMI-DADE WATER AND SEWER DEPARTMENT  
GEOTECHNICAL SERVICES, SPECIAL INSPECTIONS, STRUCTURAL ASSESSMENTS,  
SOILS, FOUNDATIONS AND MATERIALS TESTING SERVICES RELATED TO THE  
IMPROVEMENT, UPGRADES AND EXPANSIONS OF WATER AND WASTEWATER  
TREATMENT PLANTS, PUMP STATIONS, COLLECTION, DISTRIBUTION AND  
TRANSMISSION PIPING, AND ALL RELATED FACILITIES AS NECESSARY TO ENSURE  
QUALITY CONTROL/ASSURANCE FOR WATER AND SEWER DEPARTMENT'S  
CAPITAL IMPROVEMENT PROJECTS  
PROJECT NO. E15-WASD-13**

The County Mayor, Miami-Dade County (County), pursuant to Section 287.055, Florida Statutes, 2-8.1, 2-8.2.12 and 2-10.4 of the Miami-Dade County Code, Administrative Order 3-39 and Ordinance 14-77, announces that the Miami-Dade Water and Sewer Department (WASD) will require professional geotechnical and materials testing engineering services from a qualified Consultants to provide soils, foundations, geotechnical investigations, structural and special assessments as well as materials and systems testing for forthcoming water and wastewater treatment projects related to WASD's other capital improvement needs identified on the Multi-Year Capital Improvement Plan.

WASD is the primary provider of water and wastewater services to Miami-Dade County serving a population of over 2.3 million, making it among the largest water/wastewater utilities in the United States. WASD has developed a Multi-Year Capital Improvement Program (CIP) to upgrade its facilities and infrastructure system throughout the County in order to renew and replace existing deteriorated system, and to ensure with efficient, proper management, operation and maintenance practices and to accommodate future growth and development or redevelopment. WASD recognizes the need for an independent, owner controlled soils, foundations, geotechnical and materials testing services related to design parameters, quality assurance/quality control for the evaluation, design and implementation of other critical projects which are an integral part of the CIP.

WASD has a myriad of other capital improvement projects that have been identified as critical and necessary for future growth, development, and optimization of the system for upgrading the existing and new wastewater, water treatment plants, including new regulatory mandates which are not included on the current ongoing Consent Decree, Pump Station Improvement Program, and other CIP projects.

The services of a geotechnical/material testing engineering firm responsible for ensuring quality assurance/quality control on all existing and ongoing CIP projects is necessary to ensure a code compliant, safe, complete, comprehensive and thorough renovations, enhancements, expansions and upgrades as necessary.

**Scope of Services**

Miami-Dade County has the need to establish Professional Services Agreements (PSA) to provide soils, foundations, geotechnical and materials testing services plus special structural integrity assessments, threshold building inspections, and other special inspections as necessary for the new facilities, refurbishments, design and construction of all projects included in the CIP schedule. The work will be assigned as required by WASD for each of the selected firms available within the agreements.

WASD intends to retain three (3) qualified firms under three (3) separate Non-Exclusive PSA. The proposals received for this project will be reviewed and ranked by the Competitive Selection Committee (CSC) members. The three (3) highest ranked responsive and responsible firms will be selected and forwarded to the County Mayor for negotiations and award. The term of the contract is for a ten (10) year period. Maximum compensation for each PSA is \$10,000,000, plus contingency in accordance with Ordinance 00-65.

No minimum amount of work or compensation will be assured to the retained consultant. The County reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion.

### **Experience and Qualifications**

The Prime consultant submitting for this solicitation shall be a full service geotechnical/materials testing engineering firm experienced in similar facilities. Qualified firms shall have proven successful experience with quality assurance/ quality control, testing and inspection work, condition evaluation and special structural assessments, threshold building inspections, special inspections and with proven history of performance. The successful experience on the above items shall be demonstrated prior to the date of this solicitation. The Prime consultant shall provide a list of members of the proposed team, identifying the project/contract Manager, and the team leaders for key specialties.

The Prime consultant shall provide descriptions of at least one (1) successfully completed project(s) where similar services of each listed technical categories were provided prior to the date of this solicitation. The descriptions shall include the client (i.e., municipality or agency), key project staff, the project name, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the Prime firm, the achievements (e.g., projects delivered on schedule, dollars saved, new technologies utilized), and a client reference and contact information. Also the Prime also must have a Construction Materials Engineering Council Certification for a laboratory that is located in Miami-Dade County.

The Subconsultants shall also provide a description of at least one (1) project(s) that is relevant to the scope of work that they will be performing under this PSA. The descriptions shall include the client (i.e., municipality or agency), key project staff, a summary of the work performed, the contract amount, the schedule (to include start and completion dates) the specific role of the Subconsultant firm, the project's achievements, and client reference and contact information.

### **A/E TECHNICAL CERTIFICATION REQUIREMENTS**

#### **Prime**

- 9.01 Soils, Foundations and Materials Testing-Drilling, Subsurface Investigations and Seismographic Services
- 9.02 Soils, Foundations and Materials Testing-Geotechnical and Materials Engineering Services
- 9.03 Soils, Foundations and Materials Testing-Concrete and Asphalt Testing Services

### Prime and/or Subconsultants

- 9.05 Soils, Foundations and Material Testing-Roof Testing and Consulting
- 9.04 Soils, Foundations and Materials Testing-Non-destructive Testing and inspections
- 9.06 Soils, Foundations and Materials Testing-Material Testing/Consulting/Training
- 10.02 Environmental Engineering-Geology Services
- 10.05 Environmental Engineering-Contamination Assessment and Monitoring
- 10.06 Environmental Engineering-Remedial Action Plan Design
- 10.07 Environmental Engineering-Remedial Action Plan Implementation/Operation/Maintenance

### BREAKDOWN LIST

Technical Category (TC)	Description	TC Percentage	SBE %
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10.06 Other	Environmental Engineering-Remedial Action Plan Design	2%	1%
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	<b>TOTAL</b>	<b>100%</b>	<b>20%</b>

**DEPARTMENTAL INPUT  
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

**Contract/Project Title:** Geotechnical Services, Special Inspections, Structural Assessments, Soils, Foundations and Materials Testing Services related to the Improvement, Upgrades and Expansions of Water and Wastewater Treatment Plants, Pump Stations, Collection, Distribution and Transmission Piping, and all related Facilities as necessary to ensure Quality Control/Assurance for Water and Sewer Department's Capital Improvement Projects

**Contract/Project No.** E15-WASD-13

**Description:** Geotechnical Services, Special Inspections, Structural Assessments, Soils, Foundations and Materials Testing Services related to the Improvement, Upgrades and Expansions of Water and Wastewater Treatment Plants, Pump Stations, Collection, Distribution and Transmission Piping, and all related Facilities as necessary to ensure Quality Control/Assurance for Water and Sewer Department's Capital Improvement Projects

**DEPARTMENT:** Miami-Dade Water and Sewer Department (WASD)      **CONTACT:** Patty David

**PHONE:** (786) 552-8040

**Estimated Cost:** Three (3) contracts at \$10,000,000 each, plus a 10% contingency allowance in accordance with Ordinance 00-65.

**Funding Sources:** WASD Revenue Bonds Sold and Future WASD Revenue Bonds

**ANALYSIS**

Commodity/Service No. \_\_\_\_\_ SIC: \_\_\_\_\_  
Trade/Commodity/Service Opportunities

**Contract/Project History of Previous Purchases for Previous Three (3) Years**  
**Check Here if this is a New Contract/Purchase with no Previous History**

	<u>Existing</u>	<u>2<sup>nd</sup> Year</u>	<u>1<sup>st</sup> Year</u>
Contractor _____	_____	_____	_____
Ethnicity/Race _____	_____	_____	_____
Gender _____	_____	_____	_____
Contract Value _____	_____	_____	_____

COMMENTS: \_\_\_\_\_

**RECOMMENDATIONS**

<u>SBE GOAL</u> 20 %	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
	<u>Analysis for Goal Recommendation</u>	
<u>Sub-Trade</u>	<u>Est. Cost</u> \$ _____	<u>% of Item to Base Bid</u> _____
	\$ _____	_____
	\$ _____	_____
	\$ _____	_____
	<u>Total:</u> \$ _____	_____
		<u>Availability</u> _____

**Basis for Recommendation:** WASD proposes that the goal can be achieved with SBE firms assisting with 9.01-5%, 9.02-3%, 9.03-3%, 9.04-1%, 9.05-2%, 9.06-2%, 10.02-1%, 10.05-1%, 10.06-1%, and 10.07-1%.

*[Signature]*  
 By: Lester Sola, Director      Date: 7/21/15

Internal Services Department      Date: \_\_\_\_\_