



## Legislation Details (With Text)

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**Title:** APPROVAL OF A RESOLUTION NO. 145-18 TO AWARD A SERVICE AUTHORIZATION AGREEMENT NO. 5 TO APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC. IN THE AMOUNT NOT-TO-EXCEED \$989,428 FOR COASTAL ENGINEERING CONSULTING SERVICES INCLUDING A SAND SEARCH INVESTIGATION, ENGINEERING, PERMITTING AND MONITORING FOR THE CITY OF DELRAY BEACH'S BEACH NOURISHMENT PROGRAM (PROJECT NO.17-081)

**Sponsors:** Public Works Department - Programs & Project Manag

**Indexes:** Capital Improvement Projects - City Wide

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**Attachments:** 1. Agenda Cover Report, 2. Resolution Aptim Sand Search 11.6.18Legal, 3. Legal Review Checklist Coastal Eng Aptim, 4. SA\_2018-19 Coastal Engineering ServicesREV

Date	Ver.	Action By	Action	Result
12/4/2018	1	City Commission		

**TO:** Mayor and Commissioners  
**FROM:** Susan Goebel-Canning, Director Public Works  
**FROM:** Missie Barletto, Assistant Public Works Director  
**THROUGH:** Mark R. Lauzier, City Manager  
**DATE:** December 4, 2018

APPROVAL OF A RESOLUTION NO. 145-18 TO AWARD A SERVICE AUTHORIZATION AGREEMENT NO. 5 TO APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC. IN THE AMOUNT NOT-TO-EXCEED \$989,428 FOR COASTAL ENGINEERING CONSULTING SERVICES INCLUDING A SAND SEARCH INVESTIGATION, ENGINEERING, PERMITTING AND MONITORING FOR THE CITY OF DELRAY BEACH'S BEACH NOURISHMENT PROGRAM (PROJECT NO.17-081)

### **Recommended Action:**

Approval of a Resolution No. 145-18 to award Service Authorization No.5 with Aptim Environmental & Infrastructure, Inc. in the amount not-to-exceed \$989,428 for Coastal Engineering Consulting Services including a sand search investigation, engineering, permitting and monitoring for the City of Delray Beach's Nourishment Program. (Project No. 17-081)

### **Background:**

The Delray Beach Shore Protection Program consists of the design, permitting, construction and monitoring of approximately 2.6 miles of shoreline. The primary focus of the program is to provide for the protection and enhancement of the beach and coastal resources in accordance with State and Federal permit conditions.

The City of Delray Beach holds a Joint Coastal Permit (JCP), Permit No.0303553-001-JC, with the

Florida Department of Environmental Protection (FDEP) and the United States Army Corp of Engineers (USACE) for sand nourishment of the beachfront with offshore borrow areas. The JCP has conditions specific to the beach nourishment / construction activities, marine turtle and manatee protection, monitoring and reporting. The JCP requires annual post-construction physical beach monitoring studies for three-years following sand nourishment events. The City of Delray Beach has participated in eight beach nourishment projects from 1973 to 2012, with the most recent sand renourishment project completed in 2014 in response to damages incurred by Hurricane Sandy in 2012. The City is currently in the planning stages for the next renourishment event, continuing post-construction monitoring for the 2013 (City planned renourishment) and 2014 (USACE storm repair renourishment) projects and is in need of a sand search to identify offshore sand sources for future projects.

The Delray Beach Shore Protection Program include annual topographic (onshore) and bathymetric (offshore) surveys of the beach and offshore. The monitoring data is used to assess, with quantitative measurement, the performance of the beach replenishment projects. The monitoring data provides the City and the Florida Department of Environmental Protection information necessary to plan for the next renourishment project, evaluate the beach performance and optimize the design of the next beach renourishment project.

On November 25, 2017, the City advertised a Request for Qualifications (Bid No.2015-01) for Coastal Engineering Consulting Services. On August 26, 2015, The City executed an agreement with CB&I Environmental & Infrastructure, Inc. to provide Coastal Engineering Consulting Services. The Agreement is for assistance with managing the Beach Renourishment Program, including funding applications, permit acquisition, consultant and construction contract supervision and professional advice and monitoring services regarding the coastline and its management. The Agreement term is for five years from August 26, 2015 through August 25, 2020 with an option to renew for an additional two three-year terms.

On June 30, 2017 CB&I Environmental & Infrastructure, Inc. was acquired by Veritas Capital and has rebranded their business as Aptim Environmental & Infrastructure, Inc. (Aptim). Aptim has expressed its intention to assume all of CB&I Environmental & Infrastructure, Inc. rights and obligations of these awards under the terms and conditions set forth in the Agreement for consulting services with the City. The Consent to assignment from CB&I Environmental & Infrastructure, Inc. to Aptim was approved by City commission on March 6, 2018.

Under this service authorization, Aptim will provide coastal engineering consulting services including a sand search investigation, engineering, permitting and post-construction monitoring for the City's Beach Nourishment Program. Total estimated cost for services under Service Authorization No. 5 is in the amount not to exceed \$989,428.

Pursuant to Sections 161.091 - 161.161, Florida Statutes, the FDEP provides financial assistance to eligible governmental entities for beach erosion control and inlet management activities under the Florida Beach Management Funding Assistance Program. On August 21, 2018 The City commission approved a grant agreement with FDEP in the amount of \$299,729 for their cost share reimbursement of the City's Shore Protection Project including surveys of the beach and offshore and design phase for the next nourishment project and post-construction monitoring activities.

Allocation of Funding:

The design, permitting, construction and monitoring services proposed in this Service Authorization were programmed on the Capital Improvement Program budget for Fiscal Year 18/19. The funds requested are for physical monitoring services including surveys of the beach and offshore, geotechnical engineering reports (sand search) and preliminary engineering and permitting; and the City receives partial reimbursement from the Federal, State and County government partners as shown in the table below (and based on availability of funding). Note that the State cost share is \$299,729; which is the grant agreement approved by City commission August 21, 2018. The Federal cost share / reimbursement is currently an ongoing discussion with new administration at the USACE; however the cost share listed on the table is based on a long standing agreement between the City and USACE.

Project Task	Task Cost	Federal 56.33%	State 21.835%	City of Delray Beach 21.835%
Update Geotechnical Information (Sand Search and BA Design)	\$ 673,613.50	\$ 379,446.48	\$ 147,083.51	\$ 147,083.51
Engineering & Permitting	\$ 237,272.13	\$ 133,655.39	\$ 51,808.37	\$ 51,808.37
Year 5 Physical Monitoring Survey & Report	\$ 78,541.90	\$ 44,242.65	\$ 17,149.62	\$ 17,149.62
Year 5 Turtle Surveys + Comprehensive Turtle Program	\$ 200,000.00	\$ 112,660.00	\$ -	\$ 87,340.00
Year 5 Beach Tilling	\$ 6,500.00	\$ 3,661.45	\$ -	\$ 2,838.55
<b>Total 2019</b>	<b>\$ 1,195,927.53</b>	<b>\$ 673,665.98</b>	<b>\$ 216,041.50</b>	<b>\$ 306,220.05</b>

**City Attorney Review:**

Approved as to form and legal sufficiency.

**Funding Source/Financial Impact:**

This approval is required for the City to continue planning for the next renourishment event, reporting for the beach nourishment program's compliance with Federal, State and Local permits and funding assistance for beach renourishment and associated projects. Funding is available from account number 332-41-363-572.31-10 (Beach Restoration Fund-Professional Services/Engineering).

**Timing of Request:**

This request is time-sensitive as the services herein preserve the annually required permit reporting, maintain the schedule for the next beach restoration and continues to support the City's Shore Protection Program.