

**INDIAN RIVER COUNTY, FLORIDA  
MEMORANDUM**

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**TO:** Board of County Commissioners

**THROUGH:** John A. Titkanich, Jr., County Administrator  
Kylie Yanchula, Natural Resources Director

**FROM:** Quintin Bergman, Coastal Resources Manager

**SUBJECT:** **Work Order No. 2018006-19 – APTIM,  
Sector 3 Hurricanes Ian and Nicole Dune Renourishment  
2025 Environmental Monitoring**

**DATE:** January 23, 2025

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**DESCRIPTION AND CONDITIONS**

On January 9, 2018, the Board of County Commissioners (BCC) approved a contract with Aptim Environmental & Infrastructure, Inc. (APTIM) for professional coastal engineering and biological support services related to the management and nourishment of Sector 3 (Wabasso Beach). The Sector 3 project area is a critically eroded 6.6-mile section of engineered shoreline that extends from the Seaview Subdivision south past the Turtle Trail beach park. The Sector 3 coastline suffered significant storm-related losses to the beach and dune system from the impacts of Hurricanes Ian (2022) and Nicole (2022) creating the need for repair.

On November 7, 2023, the BCC awarded Bid No. 2024004 to Dickerson Infrastructure, Inc. dba Dickerson Florida, Inc. for the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project. The project started construction on December 1, 2023 and was substantially completed on April 10, 2024. The project consisted of a dune restoration project that placed approximately 223,040 cubic yards of beach compatible sand fill and installing approximately 728,633 native dune plants along the shoreline in Indian River County from FDEP range monuments R20 to R55.

Regulatory permits issued for the beach restoration activities require post-construction environmental monitoring to be performed on a set schedule for several years following completion of construction. These environmental monitoring activities are evaluated to demonstrate compliance with permit conditions. In the case of the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project, post-construction nearshore hardbottom, escarpment monitoring, sea turtle, and shorebird nest monitoring is required.

The proposed Work Order No. 2018006-19, in the amount of \$430,014.25 includes two (2) separate tasks, providing professional services for permit required construction related

environmental monitoring for the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project. These tasks and related expenses are:

- Task 1: 2025 Nearshore Hardbottom Biological Monitoring (\$177,214.94)
- Task 2: 2025 Sea Turtle and Escarpment Monitoring (\$252,799.31)

All subsequent annual post construction environmental monitoring of the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project will be addressed through future work orders.

### **FUNDING**

Partial reimbursement funding for the post-construction environmental monitoring associated with the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project will be made available through FEMA, the FDEM, the FDEP Local Government Funding Request Grants, and local funds for beach restoration provided by a portion of Local Optional Tourist Tax. Funding for post-construction related environmental monitoring (Tasks 1 and 2) will be budgeted and available in the Coastal Engineering Fund/Hurricane Ian Emergency Dune Repair account, no. 12814472-033490-22601, in the amount of \$94,603.14, and the Coastal Engineering Fund/Hurricane Nicole Emergency Dune Repair account, no. 12814472-033490-23007, in the amount of \$335,411.11, for a total Work Order No. 2018006-19 cost of \$430,014.25

<b>Account Name</b>	<b>Account No.</b>	<b>Amount</b>
Coastal Engineering Fund/Hurricane Ian Emergency Dune Repair	12814472-033490-22601	\$94,603.14
Coastal Engineering Fund/Hurricane Nicole Emergency Dune Repair	12814472-033490-23007	\$335,411.11
<b>Total Work Order No. 2018006-19:</b>		<b>\$430,014.25</b>

### **RECOMMENDATION**

Staff recommends the Board authorizes Work Order No. 2018006-19 in the total lump sum amount of \$430,014.25. Additionally, staff recommends the Board authorize the Chairman to execute Work Order No. 2018006-19.

### **ATTACHMENTS**

1. Work Order No. 2018006-19 Agreement

**APPROVED AGENDA ITEM FOR: FEBRUARY 11, 2025**