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May 22, 2023

Robin Gomez
Madeira Beach, City Manager
300 Municipal Drive
Madeira Beach, FL 33708

**Re: Johns Pass Dredging Design, Permitting, and Pre-construction Services
Change Order #1: Benthic Resource Investigation**

Dear Robin:

This letter is in response to the City of Madeira Beach (City) request for a proposal for Aptim Environmental & Infrastructure, LLC (APTIM) to conduct a benthic resource investigation in support of the design, permitting, and pre-construction services for the dredging of the northern shoreline of Johns Pass. The need for a benthic resource investigation was determined during the pre-application meetings held on January 12, 2023, with the Florida Department of Environmental Protection (FDEP) and the U.S. Army Corps of Engineers (USACE).

A description of the task to perform this work is listed and described below. A breakdown of the labor and expenses to develop this cost is attached (Exhibit A). APTIM proposes to perform these services on a lump sum basis not to exceed \$15,240.64. The services proposed herein will be governed by the terms and conditions of contract number 167-0486-CN (RW) between Pinellas County and Aptim Environmental & Infrastructure, LLC, dated March 20, 2018. Work will commence upon receiving the City's Notice to Proceed; however, work shall commence no earlier than June 1 to comply with the agency recommended seagrass survey window of June through September.

Task 1 – Benthic Resource Investigation

Scope of Work: A benthic resource investigation is required to determine the presence of benthic resources within the proposed project area. APTIM biologists will conduct a benthic resource survey within the dredge area that stretches approximately 673 linear feet along the northern shoreline of Johns Pass and out to the channel to identify and map any benthic resources that may be present. The location of any resources, if found, will be documented using a Differential GPS antenna linked to a laptop computer running HYPACK navigational software. The location and extent of any submerged aquatic vegetation (SAV) verified in situ shall be recorded and the community structure shall be qualitatively described to include species and approximate abundance, as well as notes on the general condition of the vegetation. For this purpose, abundance will be noted as sparse (<25% cover), moderate (25-50% cover), or dense (50-100% cover). Site conditions, such as sediment type and water depth will be noted. Representative photographs and/or video will be taken of any observed resources.

This survey is not meant to provide the level of data required for mitigation planning as it is assumed that any areas with SAV will be avoided in the design of any dredging efforts. With avoiding impacts, this level of data collection should be sufficient to obtain State and Federal



environmental permits. The survey will be conducted within SAV growing season to meet agency guidelines unless otherwise authorized by the agencies.

Deliverable: The final deliverables will include an observation report (in pdf) with a map overlaid on recent aerial imagery. If benthic resources are documented during the investigation, the report will provide the location/delineation of those resources with a qualitative description and representative photographs. Digital shapefiles of any SAV and/or benthic resources documented during the survey will also be provided.

Thank you for the opportunity to serve City of Madeira Beach. As always, please do not hesitate to call if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Nicole S. Sharp'.

Nicole S. Sharp, P.E.
Coastal Market Lead
Aptim Environmental & Infrastructure, LLC

cc: Beau Suthard, P.G., APTIM
Katy Brown, APTIM

A handwritten signature in blue ink, appearing to read 'Robin F. Gomez'.

Client Authorized Signature

A handwritten name in blue ink, appearing to read 'Robin F. Gomez'.

Printed Name

A handwritten title in blue ink, appearing to read 'City Manager'.

Title

A handwritten title in blue ink, appearing to read 'City of Madeira Beach'.



Exhibit A

**City of Madeira Beach
Johns Pass Dredging
Benthic Resource Investigation**

Summary of Cost by Task

Task Number	Task Name	Labor	Equipment	Materials	Travel	Total
Task 1	Benthic Resource Investigation	\$ 12,155.00	\$ 1,868.64	\$ 225.00	\$ 992.00	\$ 15,240.64