



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

New Business - Development and Environmental Services Group

J.1.

12/20/2022

Subject:

Increase Contracted Dredge Volume for Sykes Creek Phase I Muck Removal Project - District 2

Fiscal Impact:

\$5,000,000 from Save Our Indian River Lagoon Program Funds already allocated for Sykes Creek Muck Removal, and \$661,129.81 from the Florida Department of Environmental Protection State Appropriations Agreement No. NS005, for cost savings up to \$2.2 million from Phase II project costs

Dept/Office:

Natural Resources Management Department

Requested Action:

It is requested that the Board authorize the County Manager to: 1) execute a change order for up to \$5,661,129.81 to remove up to 60,792 additional cubic yards of muck; 2) extend the contract time to July 1, 2024; and 3) approve associated budget change requests.

Summary Explanation and Background:

The Sykes Creek Phase I Dredging Project was approved by the Board May 21, 2019 to remove 57,459 cubic yards (CY) of muck to improve water quality. The initial contract volume for Phase I was based on the consulting engineer using a conservative estimate of how much material would fit in the dredge material management area. Work on Phase I began in August 2022 and the contractor, Gator Dredging, is nearly 40% complete. Now that work is this far along, it is apparent that through efficient use of space and restructuring of the management area, an additional 48,000 to 60,792 CY of muck will fit within the permitted site. This additional muck volume would otherwise be removed during Phase II, however accomplishing the work now via a change order to the Phase I contract will as outlined below, complete the work more quickly and to be more cost effective than waiting for Phase II.

The proposed change order will maximize the amount of muck removal that can be completed during Phase I of the Sykes Creek muck removal project. Remaining material not removed during Phase I will be bid as Phase II, likely late in 2023, and processed through a separate temporary dredge material management area on Merritt Island (as approved by the Board on September 17, 2019). This Phase II dewatering area will require trucking cost to dispose of the material off-site, as compared to use of the Phase 1 handling and disposal on-site.

Cost Savings up to approximately \$2.2 million:

1. By more efficient use of the permitted material storage area and other fixed costs like pumps already mobilized to the island site, this change order will provide up to a 7% savings per CY of additional muck removed relative to the overall Phase I cost.

2. The Consumer Price Index Unit (CPI-U) has increased approximately 15% from the date of the original bid in February 2020, yet Gator Dredging is offering to continue dredging at their 2020 bid rate.
3. Trucking cost required for Phase II, but not for Phase I, would cost over \$400,000.
4. By removing at least an additional 48,000 CY and up to 60,792 CY of material now, a total approximate cost savings of at least \$1 million and up to \$2.2 million is anticipated relative to the expected costs of removing this material as part Phase II. Savings arise from the cost efficiency of using the existing site and mobilized pumps, avoiding trucking costs, and not incurring price inflation since the 2020 bid.

To attain this cost savings, approval of a \$5,661,129.81 Change Order (attached) to the Gator Dredging Sykes Creek muck removal contract is requested to remove up to 60,792 CY of additional muck using the current dredge material management area. The Change Order does allow for removal of as little as 48,000 CY should unforeseen logistics at the dredge material management area force a reduced volume. The cost savings of a lesser muck removal volume would still be substantial (approximately \$1M) relative to future Phase II cost estimates.

A one-year time extension to July 1, 2024 is needed for the additional work, which is consistent with the original contract that allowed 365 days for removal of 57,459 CY.

Funding for this work will be from the Save Our Indian River Lagoon Program Funds and from Florida Department of Environmental Protection State Appropriations, both already planned for the Sykes Creek Muck Removal Project, Phases I and II.

Clerk to the Board Instructions:

Startup of this additional work is time sensitive so please email a copy of the Clerk's memo to Jeanne.Allen@brevardfl.gov



December 21, 2022

MEMORANDUM

TO: Virginia Barker, Natural Resources Management Director Attn: Jeanne Allen

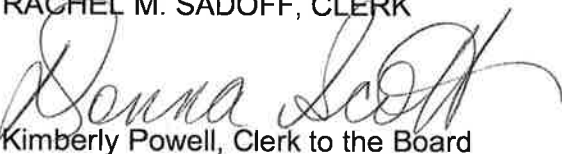
RE: Item J.1., Increase Contracted Dredge Volume for Skyes Creek Phase I Muck Removal Project

The Board of County Commissioners, in regular session on December 20, 2022, authorized the County Manager to execute a change order for up to \$5,661,129.81 to remove up to 60,792 additional cubic yards of muck; approved extending the contract time to July 1, 2024, and approved associated Budget Change Requests.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
RACHEL M. SADOFF, CLERK

for: 
Kimberly Powell, Clerk to the Board

/pp

Encl. (1)

cc: County Manager
Finance
Budget

CHANGE ORDER NO. 003 to Contract for Bid No. B-2-20-05

Project Title: Sykes Creek Phase I Muck Removal Project
Contractor: Waterfront Property Services, L.L.C. dba Gator Dredging
Date: December 7, 2022

<u>Contract Funds</u>	<u>Contract Time</u>
Original Contract Amount: \$ 5,658,177.83	Original Contract End Date: 6/1/2023
Previous Change Orders: \$ 90,747.62	Previous Change Orders: 30 days
Previous Contract Sum: \$ 5,748,925.45	Previous Contract End Date: 7/1/2023
Current Change Order: \$ 5,661,129.81	Current Change Time: 365 days
New Contract Total: \$11,410,055.36	New Contract End Date: 7/1/2024

Previous Contract Modifications:

Description of Change (Attach additional sheets if required)	<u>Decrease</u>	<u>Increase</u>
<u>CO1</u> - Mobilize an excavator to the Sykes Creek Phase I dredged material management area and work under County staff's supervision and direction to excavate gopher tortoise burrows.	_____	\$71,747.62
<u>CO2</u> - Change the dredge template to dredge about 6,336 CY from Zone 1B instead of Zone 1A, because areas in Zone 1A were found to be inaccessible.	_____	\$19,000.00
Funding is added for pre & post dredge surveys in Zone 1B.	_____	_____
A time extension of 30 days is for surveys, mobilization, and weather delays	_____	_____
_____	_____	_____
_____	_____	_____

Proposed Contract Modification:

Description of Change (Cost proposal attached)	<u>Decrease</u>	<u>Increase</u>
<u>CO3</u> - Increases the dredge volume by a minimum of 48,000 CY and a maximum of 61,000 CY	_____	\$5,661,129.81
_____	_____	_____

Substantial Completion Date: April 1, 2024

Final Completion Date: July 1, 2024

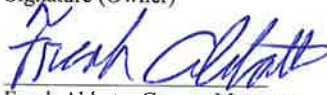
This Change Order is an amendment to the Contract Agreement between Contractor and the Owner, and all contract provisions shall apply unless specifically exempted. The amount and time change designated are the maximum agreed to by both the Owner and the Contractor for this change. In consideration of the foregoing adjustments in contract time and contract amount, the Contractor hereby releases Owner from all claims, demands or causes of action arising out of the transactions, events and occurrences giving rise to this Change Order. This written Change Order is the entire agreement between Owner and Contractor with respect to this Change Order. No other agreements or modifications shall apply to this Contract amendment unless expressly provided herein. This Change Order represents final action relating to this Change Order.

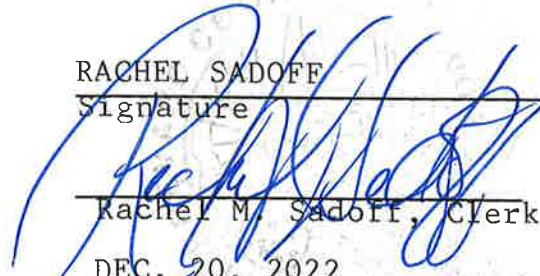
AGREED:

 Signature (Contractor)

 Name and Title

 Date

FRANK ABBATE
 Signature (Owner)

 Frank Abbate, County Manager
 DEC. 20, 2022
 Date

RACHEL SADOFF
 Signature

 Rachel M. Sadoff, Clerk
 DEC. 20, 2022
 Date

B-2-20-05 / Sykes Creek Phase 1 Dredging Project					
Lump Sum Fixed Costs - DMMA Expansion Plan					
Bid Item	Item Description	Est. Qty.	Unit	Unit Cost	Lump Sum Total
	DMMA Expansion				
1.A	Bonds and Insurance	1	LS	\$ 163,991.02	\$ 163,991.02
2.A	Environmental Protection	1	LS	\$ 15,870.10	\$ 15,870.10
3.A	Engineering Design and Permitting	1	LS	\$ 158,700.99	\$ 158,700.99
4.A	Temporary Utilities Construction and Permitting	1	LS	\$ 10,580.07	\$ 10,580.07
5.A	DMMA Construction Surveys	1	LS	\$ 37,030.23	\$ 37,030.23
6.A	DMMA Mobilization	1	LS	\$ 565,025.00	\$ 565,025.00
7.A	Construction Quality Control Testing	1	LS	\$ 15,870.10	\$ 15,870.10
8.A	DMMA Facility Construction	1	LS	\$ 795,384.01	\$ 795,384.01
9.A	DMMA Demobilization	1	LS	\$ 68,770.43	\$ 68,770.43
10.A	DMMA Stabilization and Cleanup	1	LS	\$ 47,610.30	\$ 47,610.30
11.A	Site Mitigation	1	LS	\$ -	\$ -
12.A	Pre-Construction Utility Survey	1	LS	\$ -	\$ -
13.A	Pre-Dredging Bathymetric Surveying	1	LS	\$ 12,000.00	\$ 12,000.00
14.A	Pipeline Mobilization and Construction	1	LS	\$ 52,900.33	\$ 52,900.33
15.A	Dredging Mobilization	1	LS	\$ 132,250.82	\$ 132,250.82
16.A	Pipeline Demobilization and Construction	1	LS	\$ -	\$ -
17.A	Dredging Demobilization	1	LS	\$ -	\$ -
18.A	Payment/Post-Dredging Bathymetric Surveying	1	LS	\$ 19,000.00	\$ 19,000.00
19.A	Dredging	60,792	CY	\$ 44.37	\$ 2,697,341.04
20.A	Dredged Material Management	1	LS	\$ 287,248.79	\$ 287,248.79
21.A	Operations Material Testing	1	LS	\$ 26,450.16	\$ 26,450.16
22.A	Turbidity and Water Quality Testing	1	LS	\$ 37,030.23	\$ 37,030.23
23.A	Environmental Species Monitoring	1	LS	\$ 31,740.20	\$ 31,740.20
24.A	Phosphorus Concentration Level = 75 ppb or less	60,792	CY	\$ 4.00	\$ 243,168.00
25.A	Nitrogen Concentration Level = 3,000 ppb or less	60,792	CY	\$ 4.00	\$ 243,168.00
TOTAL LUMP SUM FIXED COSTS - DMMA EXPANSION:					\$ 5,661,129.81
				\$ Per CY	\$ 93.12