

Dredging Inspection Field Report

Site Observations

Date: 10/12/2021 Field Engineer: Mike Triano
 Weather Conditions: Breezy, Overcast Temperature: 80s
 Wood Project Number: 2402210005.01.01 Client: Isle of Palms
 Contractor: Branch Diversified (BDI) Foreman Onsite: N/A

Item	Observations	Photo
Crew Size & Location	<p>**All Barges are located in the Southern Canals**</p> <p>30' x 80' barge, moored off to the large ~ 50' X 100'+ Hopper barge in the intracoastal. The 30' X 80' Barge is used to unload the smaller barges. The ~ 50' X 100'+ Hopper barge is used to transport material to DMMA. Both Barges are located east of Baseline 1 in the Intracoastal: Southern IOP.</p> <p>One 20' Wide push barge actively dredging Baseline 4 One 20' Wide push barge actively dredging Baseline 5 26' Thruster Barge actively dredging baseline 1 Two Tugs pushing 20' Wide barges back and forth from Baseline 1 and 2. One large tug moving large Hopper barges to the DMMA One additional 30' X 80' "MD-80" Barge utilized to off-load smaller barges staged near the mouth of Baseline 1 in the intracoastal. 20' aluminum boat used to travel to and from the site – out of service as of 10/12/2021</p>	<p>Photo: N/A</p> <p>See Map</p>
Equipment on Site	Same as Crew size, 3 mechanical dredges (excavators)	Photos: N/A
Work Completed	<p>Majority of Northern IOP Canals. *</p> <p>Portions of Baseline 1, 2, 4 and 5 Southern IOP Canals</p> <p><u>BDI advised dredging occurs in two phases: on the way in for access & removal of top layer of sediment and on the way out for getting canal to specified grade. This is true for all canals that barges cannot initially access.</u></p>	See Map
Work Underway	Actively Dredging Baseline 1, 4 & 5 South IOP.	See Map
Materials on Site	Stored in ~100'+ X 50' Hopper barge and One 30' x 80' barge "MD-80". Both barges are moored in the intracoastal. East of Baseline 1: South IOP.	Photo: N/A
Manatee Observer	All crew on barges were advised to keep eye out for Manatees - signs posted on northern and southern canals.	Photos: N/A
Turbidity Monitoring	<p>Background Reading:</p> <p>Monitoring Reading:</p>	Photos:



Dewatering	Lance advised dewatering does not occur - drain holes are located in bottom of containers. Lance advised inner canals are mixing zones and therefore sediment/water returning to canals are not of concern.	
Dredging	Mechanical	
Offloading Location	Large ~50' -100'+ Hopper barge and 30' X 80' "MD-80" Barge – east of Baseline 1: Southern IOP. Advised that trips to Reed Island DMMA are taken once these large barges are full, that usually occurs once a day.	Photo: N/A
Posted Permit	Permits are not posted. BDI was provided with additional copies.	
Other...	See Additional Comments Below	

BDI will return to Canals to clean up survey identified high spots - Information gathered via Email & Telephone

Additional Notes

Projected Schedule:

- BDI indicated that Baselines 1, 2, 3, 4, and 5 in the southern IOP canals will be focus for the next month.

Anticipated Obstacles to Meeting Schedule:

- Equipment malfunctioning / no operator to dig / Barges at Idle.
- Narrow spots in the canals between boat docks.
- Displaced material causing contractor to re-work areas to correct high spots.

Engineer's Notes:

- Brett Tucker is no longer working with BDI.
- Lance Young indicated that the skiff used to perform inspections is still down. BDI stated an issue with the fuel system is to blame. BDI is actively trying to find a mobile mechanic but may have to take the skiff out and bring to a mechanic. Unsure of when it will be fixed.
- Information regarding barge locations and turbidity are shared via telephone and email.

Field Engineer Signature: 

Date: 10/12/2021

Maps: **Red** is completed Work **Blue** is Work to be completed

*BDI will return to Canals to clean up survey identified high spots

