

Dredging Inspection Field Report

Site Observations

Date:	5/25/2021 Field Inspector: Mike Triano	
Weather Conditio	ns:Sunny	
Wood Project Nu	mber: 2402210005.01.01 Client: Isle of Palms	
Contractor:	Branch Diversified (BDI) Foreman Onsite: Angel Guzman	
tem	Observations Photo	
Crew Size	Two 20' wide barges dredging at time of inspection. Two tugs to move the barges back and forth. One 26' Thruster Barge One ~ 50' X 100' + Hopper barge staged in intracoastal east of mooringcanals used to transport material to DMMA. Angel's ~20' aluminum boat The 30' x 80' barge, typically located at Station 18, Baseline 1, was moored off to the large Hopper barge in the intracoastal at the time of the inspection. This barge was still being used to unload the smaller barges.	'hotos: 1 , 2
Location of Crew	20' Wide barge located: Actively dredging in Baseline 6	otos: 1, 2, 5 e Map
Equipment on Site	Same as Crew size, 4 mechanical dredges (excavators)	'hotos: 1, 2, 5
Work Completed	S Baseline 1 from POB to ~ Station 31 Majority of N Baseline 1 to terminus - High spots remain: BDI indicated that any high spots identified will be corrected to the proper depth. Mooring Canals Portions of N Baseline 2, 3, 4, 5, & 6SoBDI indicated that the Mooring Canals are now fully completed.SoBDI 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.	ee Map





Work Underway	Dredging was underway in Baseline 2, Baseline 6 and Baseline 7 at the time of theinspection.	See Map
Materials on Site	Stored in ~100'+ long X 50' wide Hopper barge and One 30' x 80' barge. Both barges were moored in the intracoastal at the time of the inspection. The 30' x 80' barge, typically located at Station 18, Baseline 1, was moored off to the large Hopper barge in the intracoastal at the time of the inspection. This barge was still being used to unload the smaller barges. Angel advised that trips to the DMMA are taken once these large barges are full, that usually occurs once a day.	Photos: 3, 5
Manatee Observer	All crew on barges were advised to keep eye out for Manatees - signs posted on northern and southern canals.	Photo: 6
Turbidity Monitoring	 0800 reading was 8.08 NTU. 1200 reading was 29.6 NTU – taken at the time of the inspection. Note: the 29.6 NTU reading is still within the acceptable threshold standard determined by 62 – 302.530 F.A.C. (70) (29 NTU above Natural Background Conditions) Control sample taken for today was the 0800 reading which was done before work commenced and read 8.08 NTU. 	Photos: 4, 6
Dewatering	Barrier was open at the time of the inspection. Lance advised dewatering does not occur - drain holes are located in. bottom of containers. Lance advised inner canals are mixing zones. Turbidity samples are being taken at the mouth of the north project area.	N/A
Dredging	Mechanical	
Offloading Location	 Large ~80' -100' + storage barge located in the Intracoastal. Angel advised that there are several barges of this size, and larger that are interchanged once full. The 30' x 80' barge, typically located at Station 18, Baseline 1, was moored off to the large Hopper barge in the intracoastal at the time of the inspection. This barge was still being used to unload the smaller barges. Angel advised that trips to the DMMA are taken once these large barges are full, that usually occurs once a day. 	Photo: 5
Posted Permit	Permits are not posted. Copies are kept on Angel's boat while dredging operations are taking place.	
Other	See Additional Comments Below	



Additional Notes

Projected Schedule:

- Active dredging in Baseline 2, 4, & 6 at the time of the inspection.
- Dredging of Baseline 4 was initiated due to the presence of a large sailboat blocking access to Baseline 5. Although this sailboat was not present at the time of the inspection, BDI indicated that dredging would continue in Baseline 4 for now until the first phase of dredging was completed.

Anticipated Obstacles to Meeting Schedule:

- Equipment malfunctioning at the time of the inspection, one tugboat was out of commission. One barge continues to have battery issues, generator was left on all day to combat this.
- The very end of Baseline 3 will have to be finished later; current dredges do not have a long enough boom to reach past the two docks at the end of the canal.
- The input of material in Baseline 5 BDI indicated that material keeps filling in the dredged location at the terminus
 of the canal (near Beach BLVD). BDI indicated that the likely reason for this is material within the riprap flowing out
 into the dredged portions. This scenario is likely what was occurring at the Mooring Canals which took longer
 than expected.
- Warmer weather increasing Manatee sightings.

Engineer's Notes:

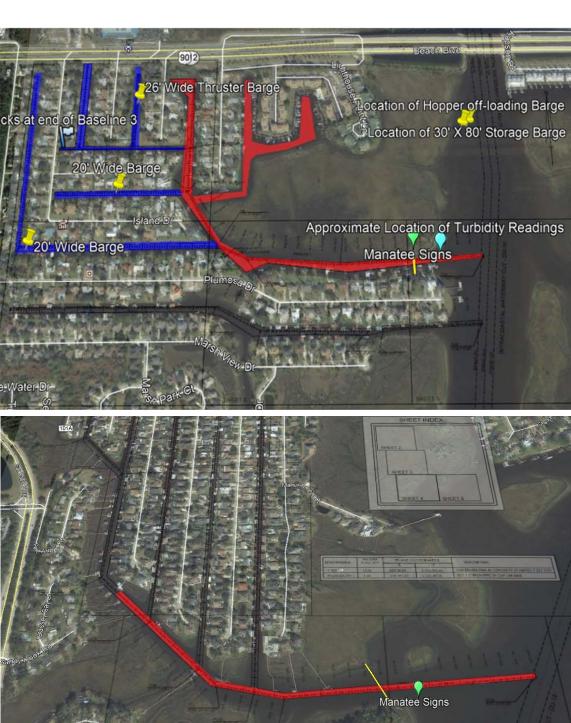
- BDI indicated that dredging of the terminus of Baseline 5 starts approximately 20 feet south of the riprap associated with Beach Blvd. See photo 8 for reference.
- BDI indicated that the northern most half of Baseline 5, (approximately from Station 3 to Station 7) was only 1 foot away from being at grade.
- BDI indicated that any high spots identified by the Arc Survey in Baseline 1 will be corrected to the proper depth.

Field Engineer Signature:

Minilasof

Date: 5/25/2021

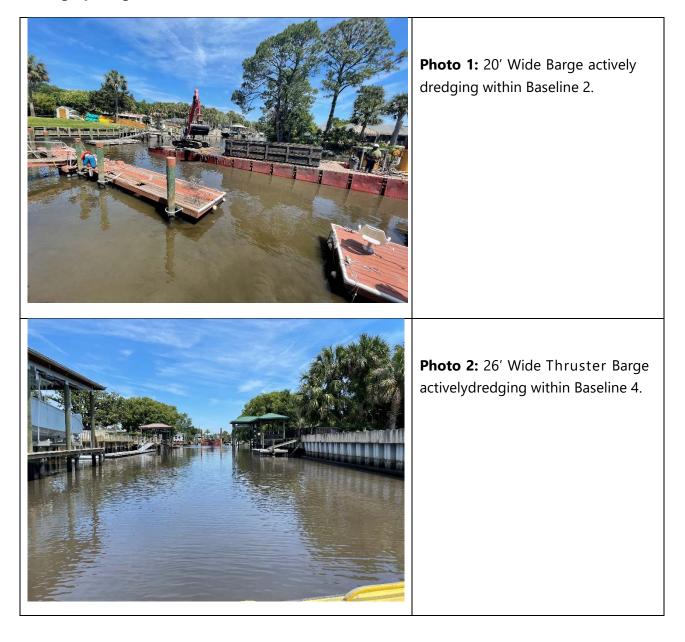




Maps: Red is completed Work Blue is Work to be completed



Photograph Log:





<image/>	Photo 3: Material removed from Baseline 2.
	Photo 4: 1200 Turbidity Reading of 29.6 NTU.



<image/>	 Photo 5: View of Barge setup in the intracoastal and active material removal from smaller, 20' wide barge at the time of the inspection. Barge being off-loaded was the barge BDI indicated was working within Baseline 6.
	Photo 6: Turbidity barrier and manatee signs.



Photo 7: Typical view of riprap at
terminus of Baseline 5.
Photo 8: For reference, BDI indicated that the dredge is parked parallel to the end of this dock (northern most dock in Baseline 5) during dredging activities.