

Dredging Inspection Field Report

Site Observations

Date: 6/1/2021 Field Engineer: Mike Triano
 Weather Conditions: Partly Sunny Temperature: 80s and Windy
 Wood Project Number: 2402210005.01.01 Client: Isle of Palms
 Contractor: Branch Diversidied (BDI) Foreman Onsite: Angel Guzman

Item	Observations	Photo
Crew Size	<p>One 20' wide barge dredging at time of inspection within the IOP District. One additional 20' wide barge was dredging a portion of the "Autobahn Canal," adjacent to the Mooring Canals.</p> <p>Two tugs to move the barges back and forth.</p> <p>One 26' Thruster Barge – Not actively dredging at the time of the inspection</p> <p>One ~ 50' X 100'+ Hopper barge staged in intracoastal east of mooring canals used to transport material to DMMA.</p> <p>Angel's ~20' aluminum boat</p> <p>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.</p>	<p>Photo: 1, 2, 6</p>
Location of Crew	<p>20' Wide barge located: actively dredging Baseline 6 IOP</p> <p>26' Wide Thruster barge: not actively dredging at the time of the inspection</p> <p>20' Wide barge located: Actively dredging in "Autobahn Canal"</p> <p>One ~ 50' X 100'+ Hopper barge staged in intracoastal east of mooring canals.</p> <p>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.</p> <p>Angel's ~20' aluminum boat roams throughout</p>	<p>Photo: 1, 2, 6</p> <p>See Map</p>
Equipment on Site	<p>Same as Crew size, 4 mechanical dredges (excavators), and the inactive 26' Thruster Barge</p>	<p>Photos: 1, 2, 6</p>
Work Completed	<p>S Baseline 1 from POB to ~ Station 31</p> <p>Majority of N Baseline 1 to terminus - High spots remain: BDI indicated that any high spots identified will be corrected to the proper depth.</p> <p>Mooring Canals</p> <p>Portions of N Baseline 2, 3, 4, 5, & 6</p> <p>BDI indicated that the Mooring Canals are now fully completed.</p> <p>BDI indicated that the Autobahn Canal would take approximately 2 days to finish.</p>	<p>See Map</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>	
Work Underway	Dredging of Baseline 6 within the IOP District Dredging of Autobahn Canal outside of the IOP District	See Map
Materials on Site	<p>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.</p> <p>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.</p> <p>Angel advised that trips to the DMMA are taken once these large barges are full, but that usually occurs once a day.</p>	Photo: 6
Manatee Observer	All crew on barges were advised to keep eye out for Manatees - signs posted on northern and southern canals.	Photos: 4
Turbidity Monitoring	<p>0800 reading was 6.45 NTU 1200 reading was 11.50 NTU – taken at the time of the inspection.</p> <p>Barrier was open at the time of the inspection.</p>	Photos: 3
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.	N/A
Dredging	Mechanical	
Offloading Location	<p>Large ~80 -100+ foot storage barge located in the Intracoastal. Angel advised that there are several barges of this size, and larger that are interchanged once full.</p> <p>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.</p> <p>Angel advised that trips to the DMMA are taken once these large barges are full, but that usually occurs once a day.</p>	Photo: 6
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 within Baseline 6 will continue.

- The 26' Thruster Barge, when manned by an operator, will continue to dredge within Baseline 4. Angel indicated that this barge would be able to correct the spots above grade in Baseline 1 once he reviews the survey and identified high spots. He indicated that he was not provided a copy of this survey to review.
- Once the Autobahn Canal is completed, the second 20' wide barge would be placed back within the IOP District to continue dredging in either Baseline 3, 5, or 2.

Anticipated Obstacles to Meeting Schedule:

- Equipment malfunctioning / no operator to dig. The 26' wide thruster barge was not in operation due to there not being an operator to run the dredge.
- The very end of Baseline 3 and Baseline 6 will have to be finished at a later time, current dredges do not have a long enough boom to reach past the two docks at the end of the canals.
- Large vessels blocking access at different intervals, BDI was unable to return to Baseline 5 due to the presence of a large vessel at the beginning of the canal. BDI indicated that they will attempt to contact the owner and request they move before returning to this canal.
- Warmer weather increasing Manatee Traffic

Engineer's Notes:

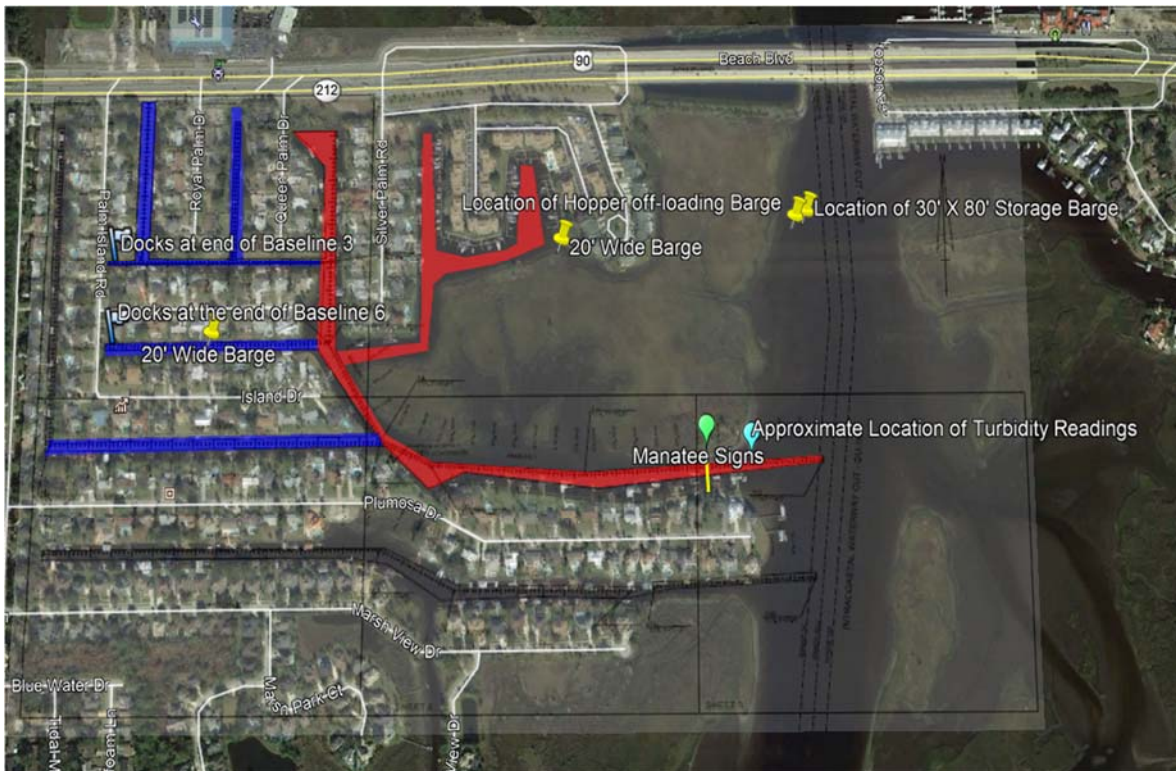
- Angel indicated that the input of material in Baseline 5 has stabilized. He indicated that he believes it is material falling off from the adjacent banks into the cut line, similarly to the Mooring Canals.
- Angel requested a copy of the Baseline 1 survey and identified high spots in order to delegate a crew to correct these areas to grade.
- BDI indicated that a plan to reach the terminus of Baseline 3 and 6 has yet to be determined.

Field Engineer Signature:



Date: 6/2/2021

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



Photograph Log:



Photo 1: Barge actively dredging in Baseline 6 IOP District.



Photo 2: Photo towards Autobahn Canal, one 20' wide barge actively dredging – outside of the IOP District.



Photo 3: Typical photo of vial and water during the 1200 turbidity reading.



Photo 4: Typical turbidity barrier and manatee signs



Photo 5: Large vessel blocking access to Baseline 5.



Photo 6: Typical view of offloading point for the smaller barges.