

Dredging Inspection Field Report

Site Observations

Date: 6/9/2021 Wood Field Engineer: Mike Triano & Charlene Stroehlen

Weather Conditions: Sunny, Partly Cloudy Temperature: 90s 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 & Location	<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>A second 30' X 80' barge was being utilized to continue work within the Mooring / Autobahn Canals cleaning up high spots.</p> <p>The two 20' wide push barges and tugs were being utilized as shuttles for the large 30' X 80' barge dredging the Mooring / Autobahn canals.</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>Photo: 1, 2, 5</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, 5</p>
Work Completed	<p>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.</p> <p>Mooring Canals</p> <p>Portions of N Baseline 2, 3, 4, 5, & 6</p> <p>BDI indicated that continued clean up of the Mooring & Autobahn Canals are underway.</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>	<p>See Map</p>



Work Underway	Cleanup dredging of Mooring & Autobahn Canals, 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>The two 20' wide push barges and tugs were being utilized as shuttles for the large 30' X 80' barge dredging the Mooring / Autobahn canals.</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: 1 & 5
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 9.95 NTU 1200 reading was 16.6 NTU – taken at the time of the inspection.</p> <p>Barrier was open at the time of the inspection.</p>	Photos: 4
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 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: 5
Posted Permit	Permits are kept on Angel's boat while dredging operations are taking place.	
Other...	See Additional Comments Below	

Additional Notes

Projected Schedule:

- 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 cleanup of the Autobahn & Mooring Canals is completed, all barges will be placed back within the IOP District to continue dredging in Baselines 2 & 6 as well as Baseline 4.

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. – Photo 3
- 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.
- Continued cleanup of canals outside of the IOP District. This also affects the planned schedule and resident's ability to move boats blocking access.
- Warmer weather increasing Manatee Traffic

Engineer's Notes:

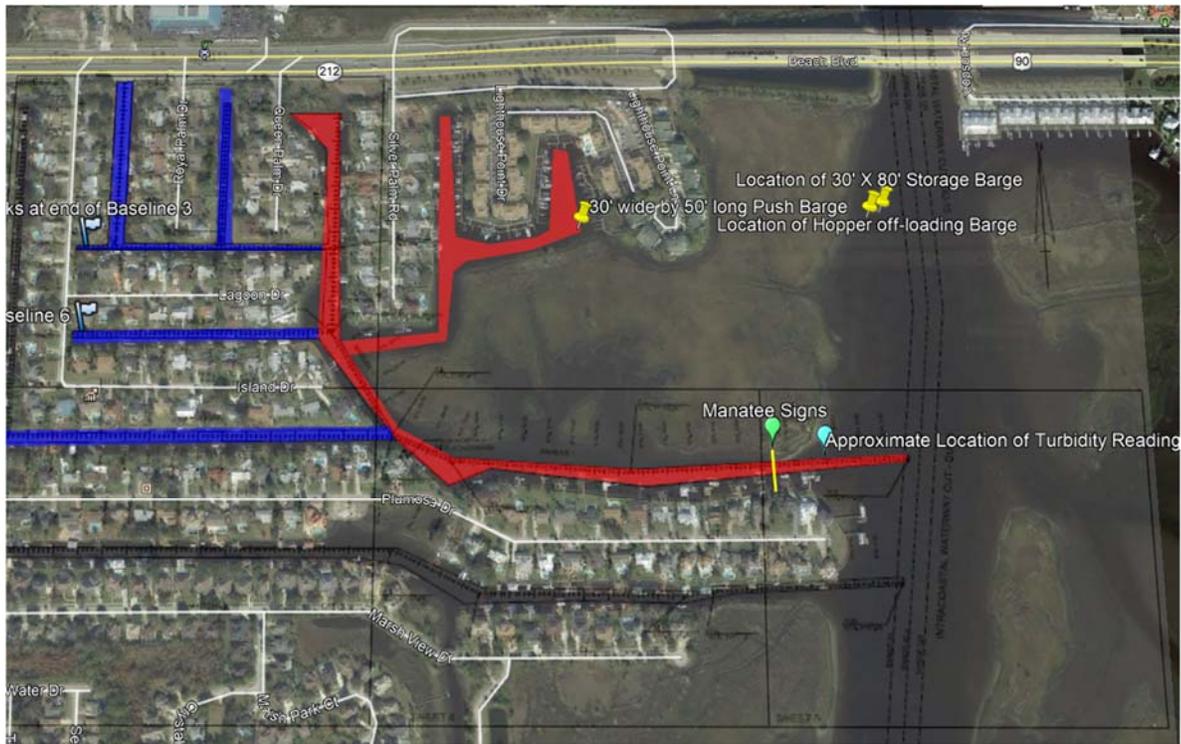
- Angel was provided a copy of the Baseline 1 Survey for his review and will determine a time frame / schedule for cleaning up the identified highspots.
- Angel has Mr. Gordon Holder's contact information and will coordinate with him when the time comes for the dredge to access Baselines 3 & 5. (If contact has not been made with BDIs home office already)
- BDI indicated that a plan to reach the terminus of Baseline 3 and 6 has yet to be determined.

Field Engineer Signature:



Date: 6/9/2021

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



Photograph Log:



Photo 1: Tug pushing 20' wide barge to off load.



Photo 2: Photo towards Mooring / Autobahn Canals, one 30' X 80' barge dredging, two 20' wide barges acting as shuttles for material.



Photo 3: Inactive 26' Thruster Barge.



Photo 4: Typical turbidity barrier and manatee signs



Photo 5: Typical view of offloading point in the intercoastal for the smaller barges.