

Dredging Inspection Field Report

Note: This Inspection Was conducted Via Telephone with Foreman Angel Guzman

Site Observations

Date: 6/29/2021 Field Engineer: Mike Triano
 Weather Conditions: Breezy, overcast, scattered Rain Temperature: 80s
 Wood Project Number: 2402210005.01.01 Client: Isle of Palms
 Contractor: Branch Diversified (BDI) Foreman Onsite: Angel Guzman

Item	Observations	Photo
Crew Size & Location	<p>30' x 80' barge, moored off to the large Hopper barge in the intracoastal This barge is used to unload the smaller barges.</p> <p>One 20' Wide push barge actively dredging Baseline 2 – dredge was removing material at Station 29+00. One 20' Wide push barge actively dredging Baseline 6 between Stations 1+00 and 8+00. Two Tugs operating to move the 20' push barges. One 26' Thruster Barge actively dredging in Baseline 5.</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, & 3</p> <p>See Map</p>
Equipment on Site	Same as Crew size, 4 mechanical dredges (excavators)	Photos: 1, 2, & 3
Work Completed	<p>S Baseline 1 from POB to ~ Station 31 Majority of N Baseline 1 to terminus: Correction of High Spots within Baseline 1 is occurring as additional Baselines are finished.</p> <p>Mooring Canals Portions of N Baseline 2, 3, 4, 5, & 6</p> <p>BDI indicated that the Mooring & Autobahn Canals are fully completed.</p> <p>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.</p>	See Map
Work Underway	<p>Baseline 2 Baseline 5 Baseline 6</p>	See Map
Materials on Site	Stored in ~50' X 100'+ Hopper barge and One 30' x 80' barge. Both barges are moored in the intracoastal.	Photo: 3



Materials on Site (Cont.)	Angel advised that daily trips to the DMMA are taken once these large barges are full.	
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	0800 reading was 12.9 NTU 1200 reading was 10.0 NTU	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.	
Dredging	Mechanical	
Offloading Location	<p>Large ~80' -100'+ storage barge. Angel advised that there are several barges of this size, and larger that are interchanged once full.</p> <p>One 30' X 80' Barge located in the Intracoastal east of the Mooring Canals.</p> <p>Both barges are moored in the intracoastal.</p> <p>Angel advised that trips to the DMMA are taken once these large barges are full, that usually occurs once a day.</p>	Photo: 3
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:

- Continued Dredging within Baseline 2 with 20' Wide Push Barge for the foreseeable future. Estimated to be three weeks.
- 26' Thruster Barge will concentrate on Baselines 3, 4 & 5 for the foreseeable future. Estimated to be up to one week in each Baseline.
- Continued Dredging within Baseline 6 with 20' Wide Push Barge for up to one week.

Anticipated Obstacles to Meeting Schedule:

- Equipment malfunctioning / no operator to dig.
- The very end of Baseline 3 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 canal.
- Boat lift at Station 9 in Baseline 6 bars the dredge from reaching Baselines 10 and 10+89.
- Two docks approximately 23 feet apart at station 29+00 in Baseline 2. See Photo 5.

- Warmer weather increasing Manatee Traffic

Engineer's Notes:

- Arc Surveying was actively performing a survey at the time of the inspection.
- BDI is working through options to gain access to terminus of Baselines 3 and 6.

Field Engineer Signature:



Date: 6/29/2021

Photograph Log:



Photo 1: Typical View of Baseline 2, 20' Wide Barge being pushed to off-load.



Photo 2: Typical view of active dredging in Baseline 6.



Photo 3: View of 26' Thruster Barge being off-loaded.



Photo 4: Typical view of turbidity barrier and manatee signs as well as 20' Wide Barge being pushed back to Baseline 2.



Photo 5: View towards two docks at Station 29+00 in Baseline 2. Docks were measured at the time of the inspection to be approximately 23 feet apart.



Photo 6: View towards Arc Surveying Boat actively conducting a survey of the northern canals in IOP District.