

## Dredging Inspection Field Report

### Site Observations

Date: 11/02/2021 Field Engineer: Mike Triano  
 Weather Conditions: Breezy, Overcast Temperature: 70s-80s  
 Wood Project Number: 2402210005.01.01 Client: Isle of Palms  
 Contractor: Branch Diversified (BDI) Foreman Onsite: N/A

Item	Observations	Photo
<b>Crew Size &amp; Location</b>	<p><b>**All Barges are located in the Southern Canals**</b></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 3 – South IOP            One 20' Wide push barge actively dredging Baseline 5 – South IOP            26' Thruster Barge actively dredging baseline 6 – North IOP            Two Tugs pushing 20' Wide barges back and forth from Baseline 3 and 5 – South IOP.</p> <p>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 11/02/2021</p>	<p>Photo: N/A</p> <p>See Map</p>
<b>Equipment on Site</b>	Same as Crew size, 3 mechanical dredges (excavators)	Photos: N/A
<b>Work Completed</b>	<p>Majority of Northern IOP Canals. *</p> <p>Portions of Baseline 1, 2, 3, 4 and 5 Southern IOP Canals</p> <p><u>BDI advised dredging occurs in two phases: on the way in for access &amp; 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
<b>Work Underway</b>	Actively Dredging Baseline 3 & 5 South IOP. Actively Dredging Baseline 6 North IOP	See Map
<b>Materials on Site</b>	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
<b>Manatee Observer</b>	All crew on barges were advised to keep eye out for Manatees - signs posted on northern and southern canals.	Photos: N/A
<b>Turbidity Monitoring</b>	0700 Background Reading: 12.4 NTU 1230 Monitoring Reading: 11.8 NTU 1620 Monitoring Reading: 12.9 NTU	Photos: 1



<b>Dewatering</b>	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.	
<b>Dredging</b>	Mechanical	
<b>Offloading Location</b>	Large ~50' -100'+ Hopper barge and 30' X 80' "MD-80" Barge – east of Baseline 1: Southern IOP.  Was advised that trips to Reed Island DMMA are taken once these large barges are full, that usually occurs once a day.	Photo: N/A
<b>Posted Permit</b>	Permits are not posted. BDI was provided with additional copies.	
<b>Other...</b>	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 while touching up high spots in northern canals. Baseline 6 currently being re-visited.
- Lance mentioned BDI will be tentatively completed with the project mid to end-November.

### 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:

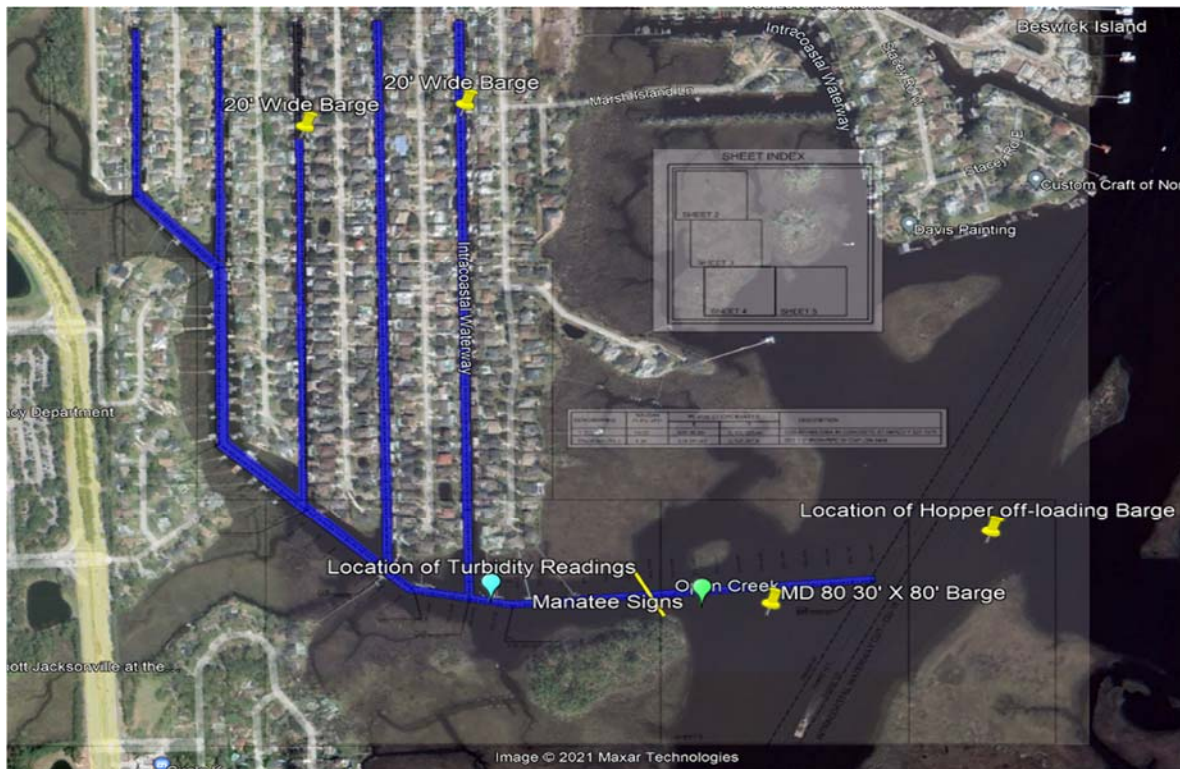
- BDI indicated this week the skiff was promised to be completed by Friday, 5 November. Wood will confirm and schedule an in-person inspection if skiff is in operation. Wood will attempt to schedule inspection prior to monthly board meeting.
- Information regarding barge locations and turbidity are shared via telephone and email.

Field Engineer Signature:

Date: 11/03/2021

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

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



## Photograph Log:

**Isle of Palms  
TURBIDITY MONITORING REPORT**

DATE: 11/2/21 TIME: 7:07 AM MACHINE: 2100Q HACH TURBIDITY METER  
COLLECTOR: 4:20p

**1. WEATHER AND WATER OBSERVATIONS:**

Atmospheric Conditions: Wind Speed: 2 mph  
Wind Direction: W    E    N    S     
NW    NE    SW    SE     
Weather Condition: Rain    Clear    Cloudy   

Water Conditions: Tide Stage: Low    Medium    High     
Water Current: 2 mph  
Water Direction to: W    E    N    S     
NW    NE    SW    SE     
Harbor seas: Calm    (tide or no waves)  
Moderate    (waves 1 to 2' high)  
Rough    (waves > 2' high)

**2. BACKGROUND SAMPLES:**  
Location Taken: \_\_\_\_\_ Time of Sample: \_\_\_\_\_ Date: \_\_\_\_\_

	Surface Sample	Mid-Depth Sample	Bottom Sample
Sample No.:			
Analysis Date:			
Analysis Time:			
Turbidity (NTU)			

Comments (if any): \_\_\_\_\_

**3. MONITORING SAMPLES (taken every 4 hours):**  
Location Taken: Station 1 Time of Sample: 7:07 AM Date: 11/2/21

	Surface Sample	Mid-Depth Sample	Bottom Sample
Sample No.:	<u>11-01a</u>	<u>11-01b</u>	<u>11-01c</u>
Analysis Date:	<u>11/2/21</u>	<u>11/2/21</u>	<u>11/2/21</u>
Analysis Time:	<u>7:07 AM</u>	<u>7:30 AM</u>	<u>7:54 AM</u>
Turbidity (NTU)	<u>1.2-4</u>	<u>1.1-6</u>	<u>1.2-9</u>

Comments (if any): \_\_\_\_\_

**Photo 1:** 11/02/2021 Turbidity Monitoring form.