Dredging Inspection Field Report

Site Observations

Date: 8/4/2021 Field Engineer: Mike Triano

Weather Conditions: Breezy, Overcast, Rainy Temperature: 80s

Wood Project Number: 2402210005.01.01 Client: Isle of Palms

Contractor: Branch Diversified (BDI) Foreman Onsite: Lance Young

Item	Observations	Photo
Crew Size & Location	30' x 80' barge, moored off to the large Hopper barge in the intracoastal This barge is used to unload the smaller barges. Southeast of Baseline 7. One 26' Thruster Barge actively off-loading at the time of the inspection – was dredging additional identified material and high spots in Baseline 1. One 20' Push Barge was down for maintenance at the time of the inspection (Ruptured Hydraulic Hose) One 20' Wide push barge was actively dredging Baseline 7 at the time of the inspection. One Tug moored off to the large Hopper barge in the intracoastal. One Tug pushing 20' Wide barge back and forth from Baseline 7. One large tug moving large Hopper barges to the DMMA One ~ 50' X 100'+ Hopper barge staged in intracoastal southeast of Baseline 7 used to transport material to DMMA. 20' aluminum boat	Photo: 1, 2 & 3 See Map
Equipment on Site	Same as Crew size, 4 mechanical dredges (excavators)	Photos: 1, 2 & 3
Work Completed	S Baseline 1 from POB to ~ Station 31 Majority of N Baseline 1 to terminus: Correction of High Spots within Baseline 1 Mooring Canals Portions of N Baseline 2, 3, 4, 5, & 6 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.	See Map
Work Underway	Actively Dredging Baseline 7 North IOP Actively Dredging Identified Additional Material / Correcting High spots in Baseline 1 North IOP	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. Southeast of Baseline 7. Lance indicated that once dredging commences in the South IOP Canals, a second Large ~ 50' x 100'+ will be stored on pilings east of the entrance to the southern canals.	Photo: 2 & 3

Manatee Observer	All crew on barges were advised to keep eye out for Manatees - signs posted on northern and southern canals.	Photos: N/A
Turbidity Monitoring	Background Reading: **15.9 NTU** 1600 Reading: **16.2 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	Large ~50' X 100'+ Hopper barge – southeast of the Baseline 7. A second Large ~50' x 100'+ Hopper Barge will be staged east of the entrance to the south IOP Canals. One 30' X 80' Barge located in the Intracoastal southeast of Baseline 7, moored to the large Hopper. Both barges are moored in the intracoastal. Angel advised that trips to the DMMA are taken once these large bargesare full, that usually occurs once a day – will resume once large tug is repaired.	Photo: 2 & 3
Posted Permit	Permits are not posted. BDI was provided with additional copies.	
Other…	See Additional Comments Below	

Additional Notes

Projected Schedule:

- Lance Young indicated dredging in Canals within the southern portion of IOP will begin once Baseline 7 and additional dredging/clean-up work in Baseline 1 in the northern canals are completed.
- Dredging within Baseline 7 will continue for approximately 1-2 additional weeks.
- Lance Young indicated Arc has/will be conducting a survey weekending 8/6.

Anticipated Obstacles to Meeting Schedule:

- Equipment malfunctioning / no operator to dig / Barges at Idle.
- The very end of Baselines 3, 6 and 2 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. Lance Young indicated a smaller 15' barge will be utilized to reach these areas at a later time. He indicated that this sized barge is unavailable as a rental at the moment and is looking at additional options.
- Displaced material causing contractor to re-work areas to correct high spots.

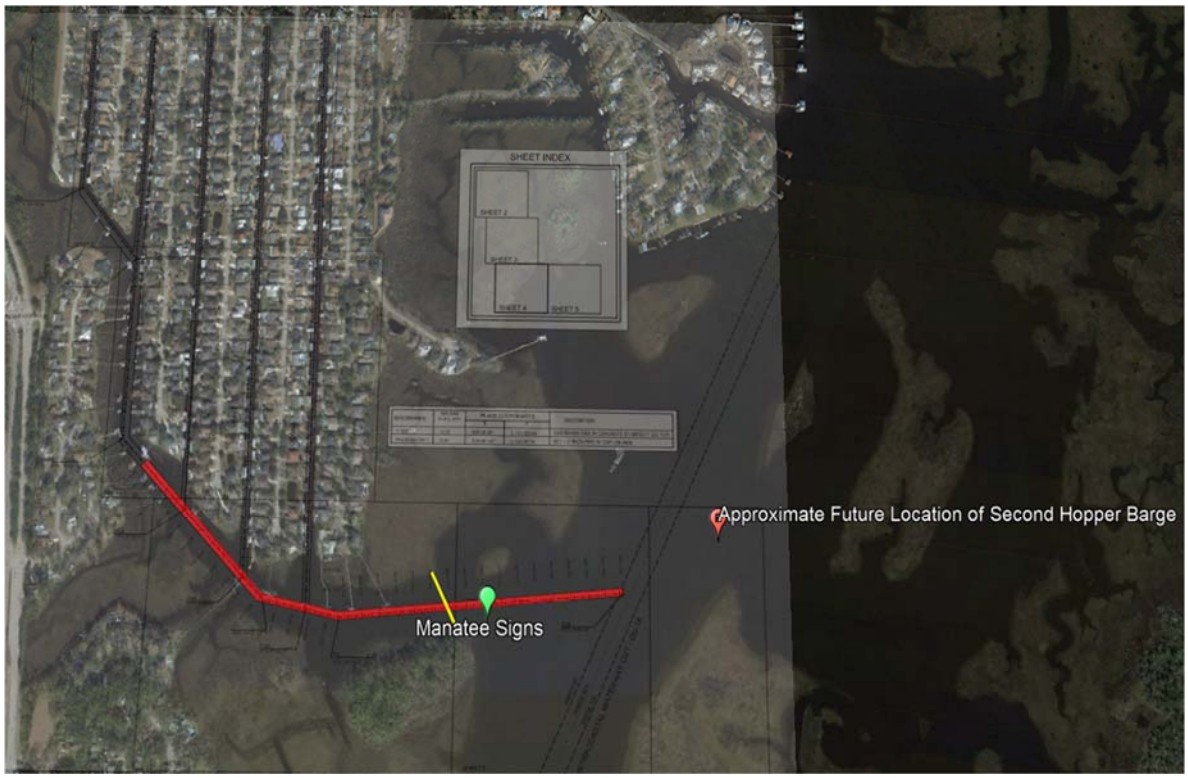
Engineer's Notes:

- Mechanic was on-site fixing one of the 20' wide push barges at the time of the inspection.
- Lance Young indicated he will have up to four barges at one time in the southern canals when the northern canals are finished.
- Large Hopper storage barge was moved and moored southeast of Baseline 7.

Field Engineer Signature: 

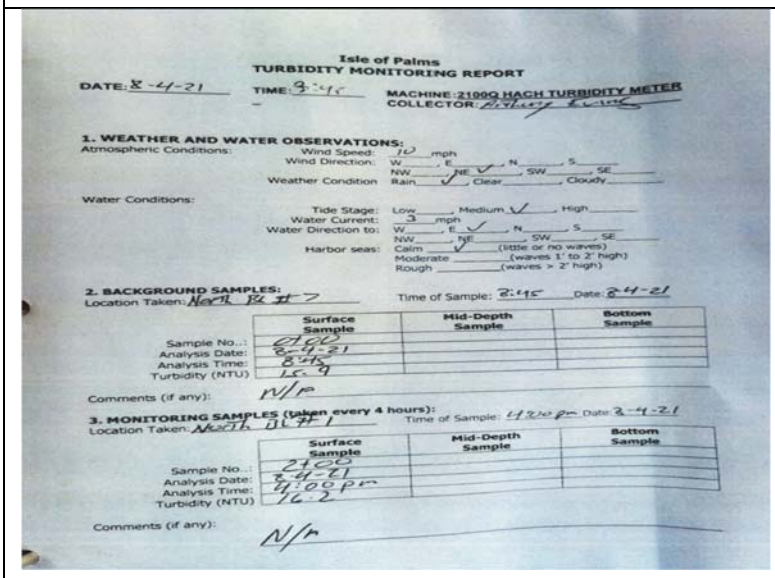
Date: 8/4/2021

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



Photograph Log:

	**Photo 1:** View of 20′ Wide Push Barge returning to Baseline 7 after off – loading.
	**Photo 2:** View of 26′ Thruster Barge actively off-loading before returning to Baseline 1.

	**Photo 3:** Additional photo of 26′ Thruster Barge full of material off-loading to the Hopper storage barge.
	**Photo 2:** 8/4/2021 Turbidity Report.

Isle of Palms
TURBIDITY MONITORING REPORT

DATE: 8-4-21 TIME: 3:45 MACHINE: 2100Q HACH TURBIDITY METER
COLLECTOR: Anthony Lucas

1. WEATHER AND WATER OBSERVATIONS:
Atmospheric Conditions: Wind Speed: 10 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: 3 mph
Water Direction to: W ___, E ✓, N ___, S ___
NW ___, NE ___, SW ___, SE ___
Harbor seas: Calm ✓ (little or no waves)
Moderate ___ (waves 1' to 2' high)
Rough ___ (waves > 2' high)

2. BACKGROUND SAMPLES:
Location Taken: North DL #7 Time of Sample: 2:45 Date: 8-4-21

	Surface Sample	Mid-Depth Sample	Bottom Sample
Sample No.:	2100		
Analysis Date:	8-4-21		
Analysis Time:	8:45		
Turbidity (NTU)	16.9		

Comments (if any): N/A

3. MONITORING SAMPLES (taken every 4 hours):
Location Taken: North DL #1 Time of Sample: 4:20 pm Date: 8-4-21

	Surface Sample	Mid-Depth Sample	Bottom Sample
Sample No.:	2100		
Analysis Date:	8-4-21		
Analysis Time:	4:00 pm		
Turbidity (NTU)	16.2		

Comments (if any): N/A