

# Dredging Inspection Field Report

# **Site Observations**

Date:9/1/20	21 Field Enginee	r: <u>Mike Triano</u>	
Weather Conditions:	Breezy, Partly Cloudy	Temperature:	80s
Wood Project Number:	2402210005.01.01 Client:	Isle of Palms	
Contractor: Branch	Diversified (BDI) Forema	an Onsite: <u>Brett Tucker</u>	
Item	Observations		Photo
Crew Size & Location	<ul> <li>**All Barges are located in the Southe 30' x 80' barge, moored off to the large intracoastal. The 30' X 80' Barge is used to 50' X 100' + Hopper barge is used to tran Barges are located east of Baseline 1 in t</li> <li>Two 20' Wide push barges actively dredge inspection.</li> <li>Two Tugs pushing 20' Wide barges back One 26' Thruster barge was actively dredge One large tug moving large Hopper barg 20' aluminum boat used to travel to and</li> </ul>	~ 50' X 100' + Hopper barge in the to unload the smaller barges. The ~ nsport material to DMMA. Both the Intracoastal: Southern IOP. ging Baseline 1 at the time of the and forth from Baseline 1. dging Baseline 5. ges to the DMMA	Photo: 1, 2, 3, & 5 See Map
Equipment on Site	Same as Crew size, 3 mechanical dredge	s (excavators)	Photos: 1, 2, 3, & 5
Work Completed	Majority of Northern IOP Canals. * Portions of Baseline 1 and 5 Southern IO <u>BDI advised dredging occurs in two phas</u> removal of top layer of sediment and on specified grade. This is true for all canals	ses: on the way in for access & the way out for getting canal to	See Map
Work Underway	Actively Dredging Baseline 1 & 5 Southe	rn IOP.	See Map
Materials on Site Manatee Observer	<ul> <li>Stored in ~100' + X 50' Hopper barge and are moored in the intracoastal. East of Ba Lance indicated that once dredging com a second Large ~100' + 50' will be stored to the southern canals.</li> <li>All crew on barges were advised to keep</li> </ul>	aseline 1: Southern IOP. Imences in the South IOP Canals, I on pilings east of the entrance	Photo: 6
Manatee Observer	posted on northern and southern canals		Photos: 4
Turbidity Monitoring	Background Reading: 14.4 NTU 12:30 Reading: 15.1		Photos: 7





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' -100' + Hopper barge and 30' X 80' Barge – east of Baseline 1: Southern IOP. Advised that trips to Reed Island DMMA are taken once these large bargesare full, that usually occurs once a day.	Photo: 5 & 6
Posted Permit	Permits are not posted. BDI was provided with additional copies.	
Other	See Additional Comments Below	

### **Additional Notes**

#### **Projected Schedule:**

- Brett Tucker indicated that Baselines 1, 3, 4, and 5 in the southern IOP canals will be focus for the next month. ٠
- 30' X 80' "MD-80" barge is going to be used in Baseline 1 until it cannot fit. •

#### **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:

- Brett Tucker indicated that turbidity readings are taken at the mouth of Baseline 1: Southern IOP.
- Brett Tucker indicated that this was the first week all the barges were located in the Southern Canals. He also said they are awaiting additional surveys in the northern canals to determine if/where additional work needs to be done.
- A representative of the Bank named Major was on board at the time of the inspection. ٠

Field Engineer Signature:

Date: <u>9/1/2021</u>

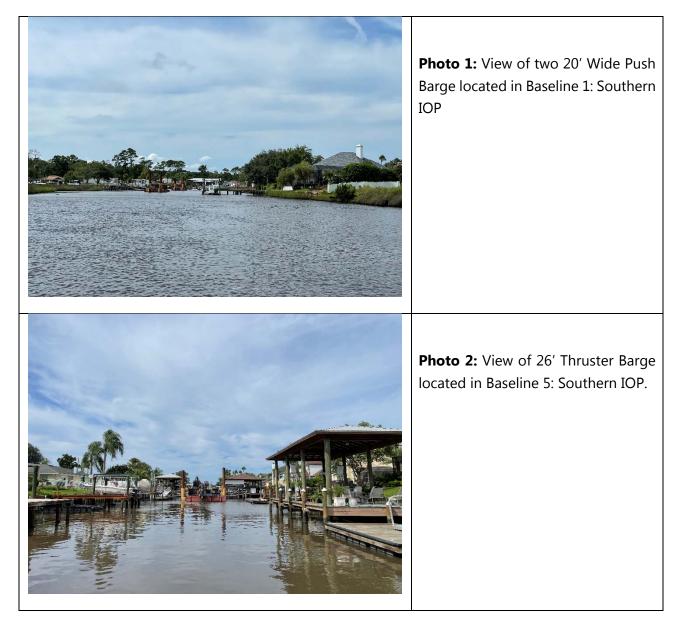




### Maps: Red is completed Work Blue is Work to be completed



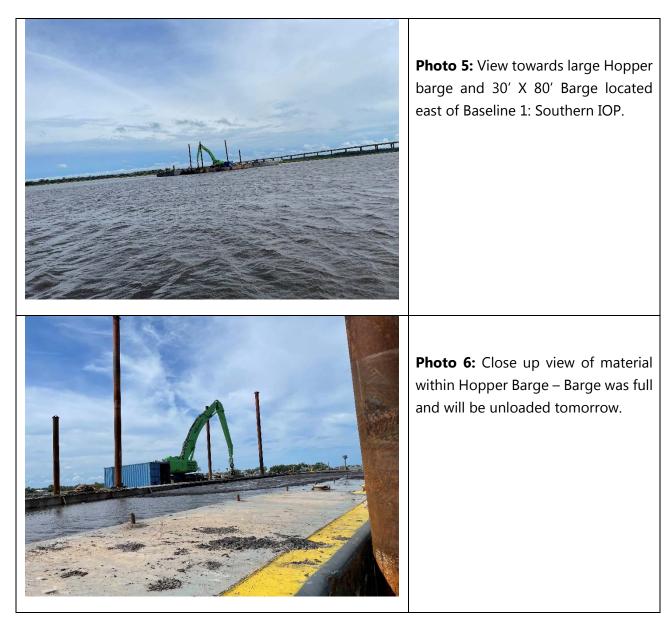
## Photograph Log:













	TURBIDITY MONI			Dhate 7: 0/1/2021 Turkidity F
DATE: 9-1-21		COLLECTOR	3 Regarden	<b>Photo 7:</b> 9/1/2021 Turbidity F
1. WEATHER AND WA Atmospheric Conditions:	TER OBSERVATION	St	/	
Automphenic Conditions:	Wind Speed: Wind Direction: V	W , E , N	.s. se	
Water Conditions:	Weather Condition R	tain, Clear	_, Cloudy	
water conditions:	Tide Stage: L Water Current:	ow Medium	, High	
	Water Direction to: V	N E N	S no waves)	
	Harbor seas: C	CalmClittle or r Moderate(waves > tough(waves >	1" to 2" b(ab)	
2. BACKGROUND SAMP				
Location Taken: 1	BL-#1 Surface	Time of Sample: 13 stert		
Sample No	Sample	Sample	Sample	
Analysis Date: Analysis Time:	9-1-21 12:00Pm			
Turbidity (NTU)	14.4			
Comments (if any):				
	ES (taken every 4 hou	Time of Sample: (2-30	Prover 9-1-21	
3. MONITORING SAMPL		Mid-Depth Sample	Bottom Sample	
	Surface		Sector Se	
3. MONITORING SAMPL Location Taken:	Surface Sample	Sample		
3. MONITORING SAMPL Location Taken:B Sample No Analysis Date: Analysis Time:	Surface	Sample		
3. MONITORING SAMPL Location Taken:	Surface Sample 9 - 1 - 2.1	Sample		
3. MONITORING SAMPL Location Taken:B Sample No Analysis Date: Analysis Time:	Surface Sample 9 - 1 - 2.1	Sample		
3. MONITORING SAMPL Location Taken:	Surface Sample 9 - 1 - 2.1	Sample		
3. MONITORING SAMPL Location Taken:	Surface Sample 9 - 1 - 2.1	Sample		