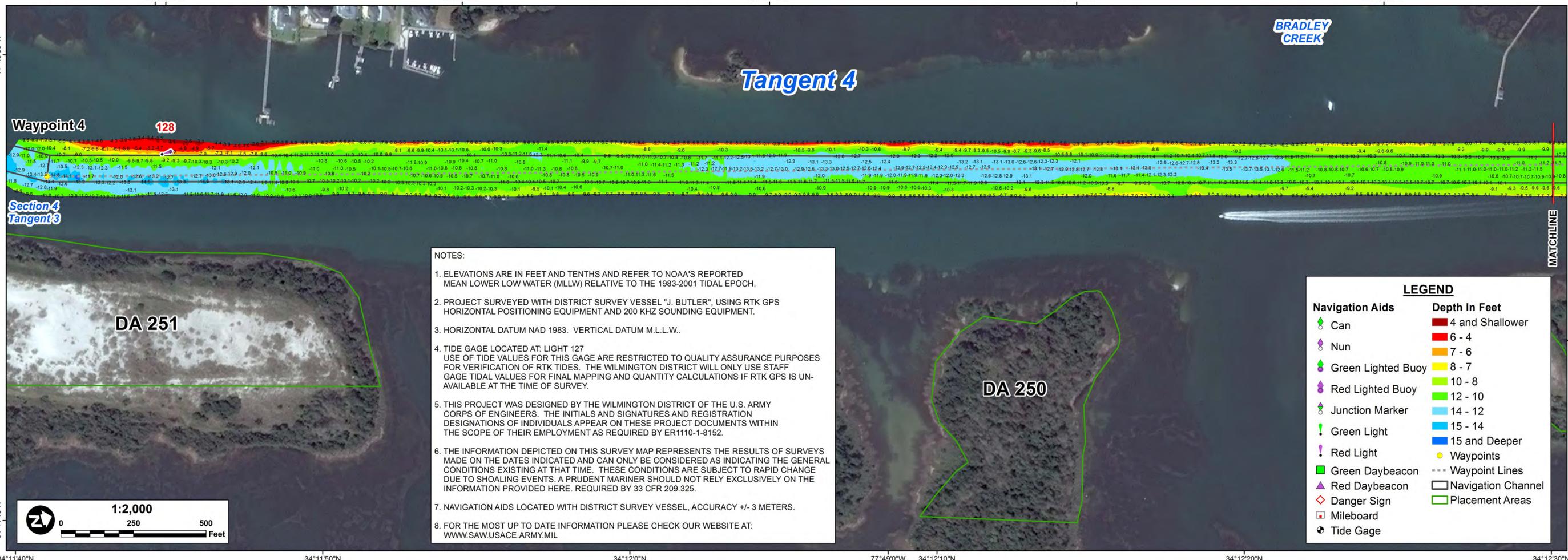


**WAYPOINTS**

Survey Date	Project	SPF_X	SPF_Y	DMS_X	DMS_Y
2016-11-15-16	AIWW / BFTCFR / S-4 - T4-5 / WAYPOINT 1	2360010	173741	77° 48' 32.929" W	34° 13' 17.148" N
2016-11-15-16	AIWW / BFTCFR / S-4 - T4-5 / WAYPOINT 2	2358153	171425	77° 48' 55.378" W	34° 12' 54.466" N
2016-11-15-16	AIWW / BFTCFR / S-4 - T4-5 / WAYPOINT 3	2357624	170814	77° 49' 1.756" W	34° 12' 48.479" N
2016-11-15-16	AIWW / BFTCFR / S-4 - T4-5 / WAYPOINT 4	2355768	164351	77° 49' 24.766" W	34° 11' 44.769" N

Survey Date: November 15-16, 2016	Surveyed By: LMT, SRV
Map Date: November 18, 2016	Mapped By: K7DPSPGD
Map Scale: 1:2,000	Processed By: K7DPSPGD
Imagery Date: October 21, 2016	
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Map File Name: aiww_bftcfr_s4t4-5_2016-11-15-16_cs.mxd	



**NOTES:**

- ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W..
- TIDE GAGE LOCATED AT: LIGHT 127  
USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325.
- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: [WWW.SAW.USACE.ARMY.MIL](http://WWW.SAW.USACE.ARMY.MIL)

**LEGEND**

<b>Navigation Aids</b>	<b>Depth In Feet</b>
Can	4 and Shallower
Nun	6 - 4
Green Lighted Buoy	7 - 6
Red Lighted Buoy	8 - 7
Junction Marker	10 - 8
Green Light	12 - 10
Red Light	14 - 12
Green Daybeacon	15 - 14
Red Daybeacon	15 and Deeper
Danger Sign	Waypoints
Mileboard	Waypoint Lines
Tide Gage	Navigation Channel
	Placement Areas

**HYDROGRAPHIC SURVEY**  
 U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 WILMINGTON, NORTH CAROLINA  
 Atlantic Intracoastal Waterway  
 Beaufort to Cape Fear River  
**SECTION 4 / TANGENTS 4 - 5**  
 WRIGHTSVILLE BEACH, NORTH CAROLINA