

- NOTES:
- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
  - PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "BUTLER & SANDERSON", 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: USCG DOCK. 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

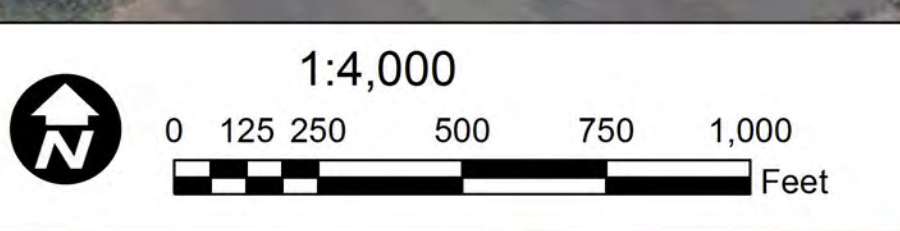
**US Army Corps of Engineers**  
Wilmington District

**NORTH CAROLINA**

Wilmington  
Morehead City

Wilmington  
Masonboro Inlet  
Atlantic Ocean

SURVEYED BY: LMT, WJC, JBD, WWW, SRV
MAPPED: K7OPNSMG
SURVEY DATE: 13, 20, 27 & 28 JUNE 2016
MAP DATE: 29 JUNE 2016
MAP SCALE: 1:4,000
IMAGERY DATE: 21 JANUARY 2016
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MAP FILE NAME: IN_07_MAS_20160628.MXD



**LEGEND**

Green Light	4 and Shallower	Waypoints
Red Light	6 - 4	Waypoint Lines
Green Daybeacon	7 - 6	Matchlines
Red Daybeacon	8 - 7	Navigation Channel
Green Lighted Buoy	10 - 8	Placement Areas
Red Lighted Buoy	12 - 10	
Mileboard	14 - 12	
Tide Gage	15 - 14	
Junction Marker	15 and Deeper	

**WAYPOINTS**

Survey Date	Project	SPF_X	SPF_Y	DMS_X	DMS_Y
2016-06-28	AIWW Shinn Ck - S4 - Tangent 3-4 - Waypoint 1	2355761	164358	77° 49' 24.850" W	34° 11' 44.828" N
2016-06-28	AIWW Shinn Ck - S4 - Tangent 3-4 - Waypoint 2	2354803	162869	77° 49' 36.458" W	34° 11' 30.230" N
2016-06-28	AIWW Shinn Ck - S4 - Tangent 3-4 - Waypoint 3	2353245	160272	77° 49' 55.375" W	34° 11' 4.726" N
2016-06-13	BANKS CHANNEL - Waypoint 1	2358859	162291	77° 48' 48.268" W	34° 11' 24.039" N
2016-06-13	Masonboro Inlet - Waypoint 1	2362369	157090	77° 48' 7.242" W	34° 10' 32.171" N
2016-06-13	Masonboro Inlet - Waypoint 2	2357955	160555	77° 48' 59.278" W	34° 11' 6.969" N
2016-06-27	Masonboro Inlet - Waypoint 3	2357301	162220	77° 49' 6.821" W	34° 11' 23.514" N
2016-06-27	Masonboro Inlet - Waypoint 4	2356424	162659	77° 49' 17.202" W	34° 11' 27.957" N
2016-06-27	Masonboro Inlet - Waypoint 5	2354803	162869	77° 49' 36.458" W	34° 11' 30.230" N

**HYDROGRAPHIC SURVEY**

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
WILMINGTON, NORTH CAROLINA

**Masonboro Inlet and Shinn Creek**  
WRIGHTSVILLE BEACH, NORTH CAROLINA