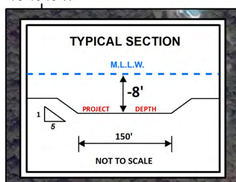
78°15'15"W 78°15'0"W 78°14'45"W 78°14'30"W 78°14'15"W 78°14'0"W 78°13'45"W 78°13'30"W

33°55'15"N 33°55'0"N 33°54'45"N 33°54'30"N



Tangent 10
Tangent 11
Tangent 12
Sheep Island
Holden Beach
Oak Island
Lockwoods Folly Inlet
DA 287
Light 48A Tide Gage
AIWW WAYPOINT 1
AIWW WAYPOINT 2
AIWW WAYPOINT 3
AIWW WAYPOINT 4
AIWW WAYPOINT 5
AIWW WAYPOINT 6
44
46A
46
46B
48
47A
47
48A
12
8
7
5
6
3
1
Blockade Runner "RANGER"
BENDIGO
LISA MARIE
IRON AGE
ELIZABETH

LEGEND

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Placement Areas
- Navigation Channel

Wrecks

Name	SPF_X	SPF_Y	DMS_X	DMS_Y
Bendigo	2231074	59639	78° 14' 18.668"W	33° 54' 41.112"N
Iron Age	2231618	59148	78° 14' 12.262"W	33° 54' 26.215"N
Elizabeth	2232179	58878	78° 14' 5.639"W	33° 54' 33.504"N
Lisa Marie	2231719	59592	78° 14' 11.027"W	33° 54' 40.599"N
Blockade Runner "Ranger"	2227420	59802	78° 15' 2.002"W	33° 54' 42.998"N

1:3,600

0 200 400 600 800 1,000 Feet

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "BUTLER ", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W..
4. TIDE GAGE LOCATED AT: LIGHT 48A
   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 UN-AVAILABLE AT THE TIME OF SURVEY.
5. 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.
6. 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
7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

WAYPOINTS

Survey Date	Project	SPF_X	SPF_Y	DMS_X	DMS_Y
2016-12-01-02	AIWW / CFRLR / T11 / Waypoint 1	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
2016-12-01-02	AIWW / CFRLR / T11 / Waypoint 2	2232915	63266	78° 13' 56.506" W	33° 55' 16.845" N
2016-12-01-02	AIWW / CFRLR / T11 / Waypoint 3	2231950	63448	78° 14' 7.937" W	33° 55' 18.721" N
2016-12-01-02	AIWW / CFRLR / T11 / Waypoint 4	2231524	63302	78° 14' 13.006" W	33° 55' 17.311" N
2016-12-01-02	AIWW / CFRLR / T11 / Waypoint 5	2231245	62927	78° 14' 16.341" W	33° 55' 13.618" N
2016-12-01-02	AIWW / CFRLR / T11 / Waypoint 6	2226636	62194	78° 15' 11.088" W	33° 55' 6.722" N

US Army Corps of Engineers
Wilmington District

SURVEYED BY: LMT, SRV
MAPPED: K7PDPSGD
PROCESSED BY: K7PDPSGD
MAP DATE: 06 JANUARY 2017
MAP SCALE: 1:3,600
IMAGERY DATE: 17 OCTOBER 2016
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SURVEY DATE: 01 DECEMBER 2016
MAP FILE NAME: IN_10_LFI_20161201.MXD

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

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA