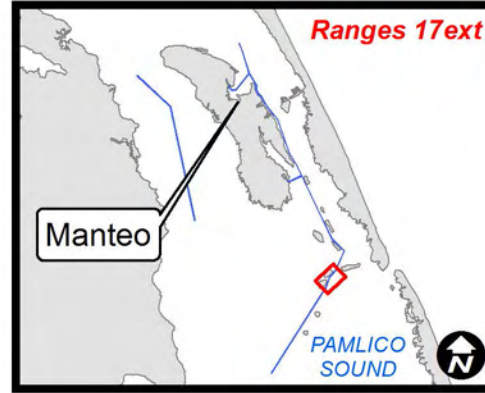
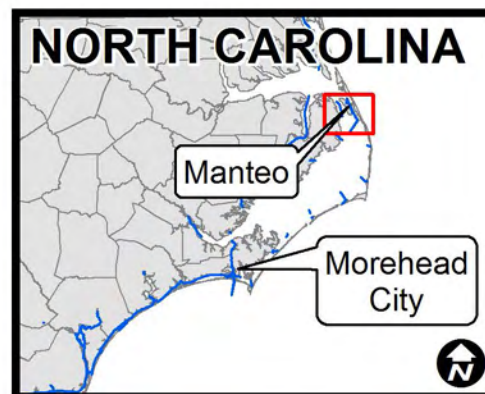
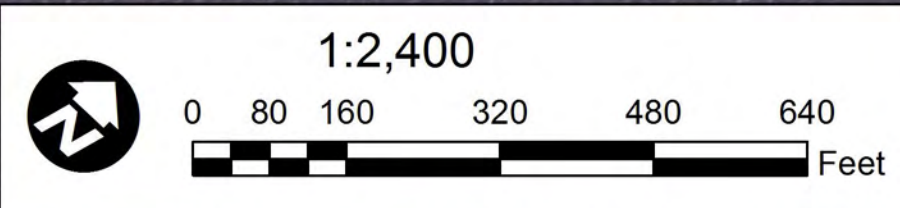


US Army Corps of Engineers
Wilmington District



SURVEY DATE: 16 SEPTEMBER 2016	SURVEYED BY: BRJ, DCH
MAP DATE: 19 SEPTEMBER 2016	MAPPED: K7OPNSMG
MAP SCALE: 1:2,400	
IMAGERY DATE: 21 JUNE 2016	
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WAYPOINTS					
Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Manteo R 17x-OH1 Waypoint 1	2016-09-16	3011788	7500655	75° 35' 19.761" W	35° 45' 47.308" N
Manteo R 17x-OH1 Waypoint 2	2016-09-16	3012690	7526885	75° 35' 7.731" W	35° 46' 12.889" N
Manteo R 17x-OH1 Waypoint 3	2016-09-16	3013435	7536557	75° 34' 58.292" W	35° 46' 22.248" N
Manteo R 17x-OH1 Waypoint 4	2016-09-16	3014406	7545228	75° 34' 46.150" W	35° 46' 30.526" N

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

- 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 "POTTER" 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 37
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

HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Ranges 17ext
& Old House Range 1
WANCHESBEE, NORTH CAROLINA