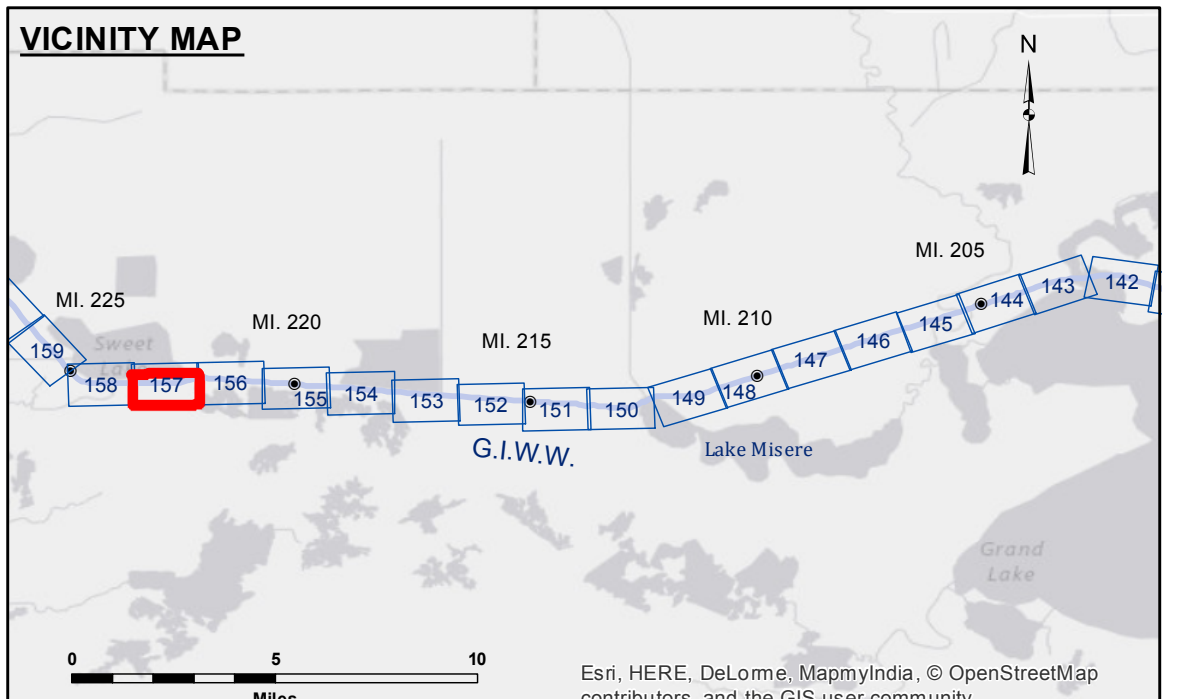


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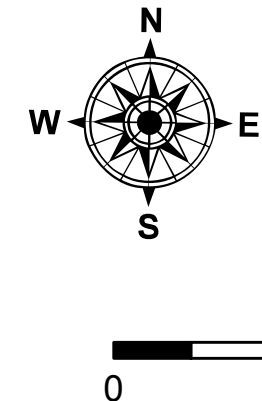
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: SPPM
Recommended: Chief, Survey Section	Plotted By: BTD
Approved: Chief, Waterways Maintenance Section	Checked By: VAL

**GULF INTRACOASTAL WATERWAY
 MERMENEAU TO CALCASIEU
 GW_57_M2C_20140529
 29 May 2014**

**Sheet
 Reference
 Number
 157 of 191**



LEGEND			
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -12' and above
— Federal Navigation Center Line	▭ Placement Area	● Shoalest Sounding**	□ -12' and below
— As-built Pipeline/Cable	⊗ Anchorage Area	☆ Beacon, General	
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	♦ Red Navigation Buoy	
— Project Depth Contour	⊗ Wrecks-Submerged	◆ Green Navigation Buoy	



Gage Reading: CALC LOCK EAST: 1.92 MLG
 Sea Conditions: CALM
 Vessel Name: M/V OB 167
 Survey Type: CONDITION
 Sounding Frequency***: Low

Feet
 0 500 1,000

NOTES:
 Horizontal Coordinate System:
 North American Datum of 1983 (NAD83), projected to the State Plane
 Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.
 Vertical Datum:
 Soundings are shown in feet and indicate depths below Mean Low Gulf Datum (MLG).
 Mile markers on the G.I.W.W. are shown in one mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard.
 2010 Aerial Photography data source: NAIP, 1998 DOQQ imagery shown in green from USGS.
 Reference is N.O.A.A. Navigation Chart No. 11348.
 ** Shoalest Sounding per Quarter per Reach.
 *** High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.