

**US Army Corps of Engineers District: CEMVN**

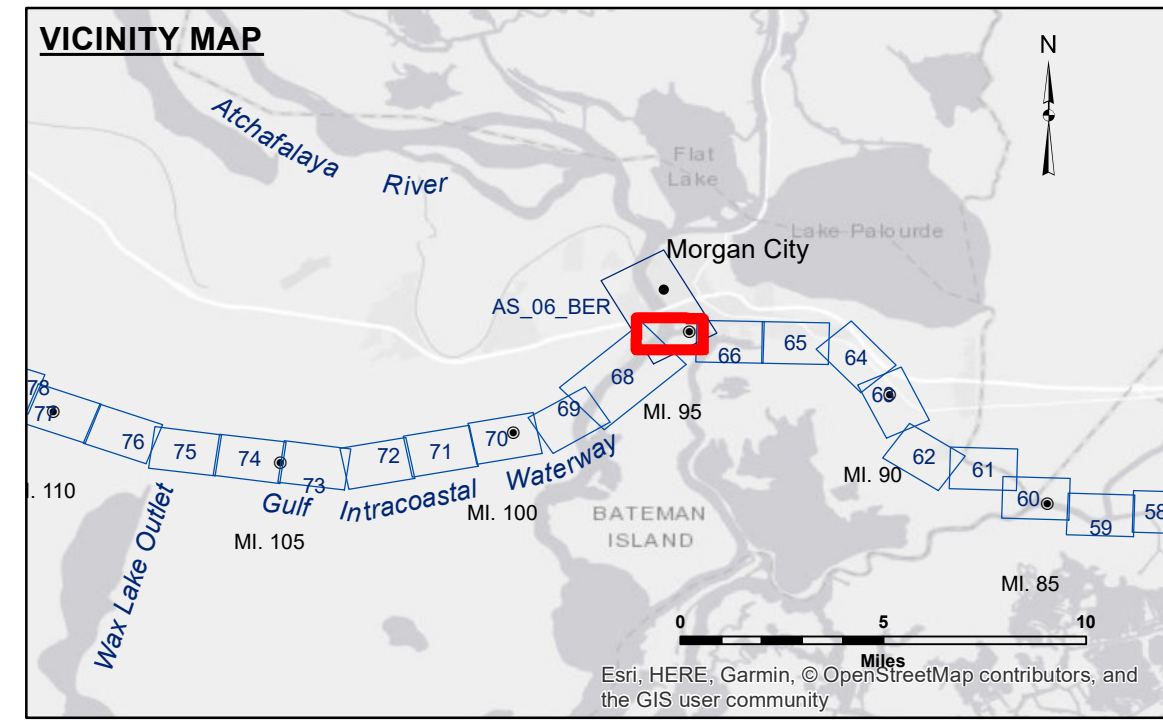
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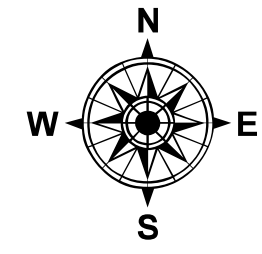
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: SOUK/SONNIER	Plotted By: MS
Recommended:	Chief, Survey Section	Checked By: MS
Approved:	Chief, Waterways Maintenance Section	

**GULF INTRACOASTAL WATERWAY**  
20 GRAND POINT  
GL\_67\_BBW\_20180721\_CS  
21 July 2018

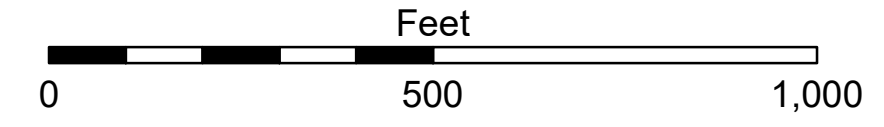


**LEGEND**

--- 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: MORGAN CITY: 3.53 MLG  
Sea Conditions: CALM  
Vessel Name: OB-167  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: LOW



**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).  
Datum Relationships for Lower Atchafalaya River at Morgan City (03780) as of 2017:  
0.0' NAVD88 (2009.55) = 1.89' MLG

The location of navigation aids are base on and provided by the U.S. Coast Guard.

2015 Aerial Photography data source: NAIP, 1998 DOQQ imagery shown in green from USGS.

Reference is N.O.A.A. Navigation Chart No. 11355.

\*\* 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.

**Sheet Reference Number**  
67 of 191

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3.12-20160811