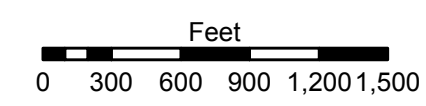
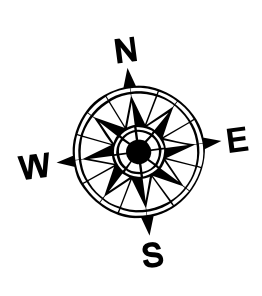


**LEGEND**

--- Federal Navigation Channel	○ Cable Area	■ Shoaling Area	■ 0' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ 0' to -5'
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General	■ -5' to -9'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	□ -9' and below
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	



LWRP: 12.6  
 Gage Reading: RR:23.7 BR:10.5 USED:22.40 NGVD  
 Sea Conditions: CALM  
 Vessel Name: M/V OB167  
 Survey Type: CONDITION  
 Sounding Frequency\*\*\*: HIGH

**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 Low Water Reference Plane 2007 (NGVD).  
 Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.  
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.  
 2010 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.  
 Reference is USACE IENC U35LM236.  
 \*\*\* 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.



**Access/Availability:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are for official use only and that they are not to be distributed, copied, or used for any purpose other than that for which they were prepared. The user is responsible for the results of any use of these data. The United States Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, or suitability of these data for any purpose other than that for which they were prepared. The user is responsible for the results of any use of these data. The United States Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, or suitability of these data for any purpose other than that for which they were prepared. The user is responsible for the results of any use of these data.

Submitted:	Submitted By:	DR, SP
Recommended:	Plotted By:	AO
Approved:	Checked By:	AO

U.S. ARMY CORPS OF ENGINEERS  
 NEW ORLEANS DISTRICT

**MISSISSIPPI RIVER - SHALLOW DRAFT  
 SMITHLAND - SHEET 3  
 MS\_11\_SM3\_20161116  
 16 November 2016**

**Sheet Reference Number  
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