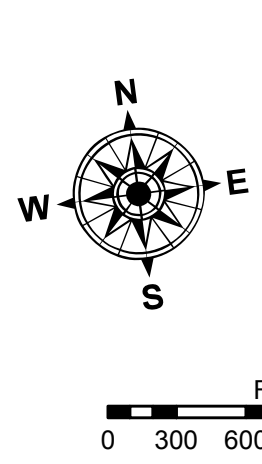


LEGEND			
--- Federal Navigation Channel	○ Cable Area	■ Shoaling Area	■ 0' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ 0' to -5'
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General	■ -5' to -9'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red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



LWRP: 12.6  
 Gage Reading: RR:37.4BR:21.9 USED:35.8 NGVD  
 Sea Conditions: CALM  
 Vessel Name: M/V OB189  
 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 NOTES**  
 Access Restrictions: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were prepared, and that the data are not to be distributed, reproduced, or modified in any way without the express written consent of the United States Government. The user is responsible for the results of any use of the data for other than its intended purpose.  
 Distribution Liability: The data represent the results of data collection processing for a specific US Army Corps of Engineers project and are not to be used for any other project. The user is responsible for the results of any use of the data for other than its intended purpose.  
 Data Comments: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, shoaling, and other changes in the river channel. The user is responsible for the results of any use of the data for other than its intended purpose. The user is responsible for the results of any use of the data for other than its intended purpose. The user is responsible for the results of any use of the data for other than its intended purpose.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT			
Submitted:	Surveyed By: DR, SP	Plotted By: AO	Checked By: MK
Recommended: Chief Survey Section			
Approved: Chief Waterways Maintenance Section			

**MISSISSIPPI RIVER - SHALLOW DRAFT  
 SMITHLAND - SHEET 3  
 MS\_11\_SM3\_20160622  
 22 June 2016**

**Sheet Reference Number  
 11 of 39**

Revision Number:  
 3.8.9-20150202