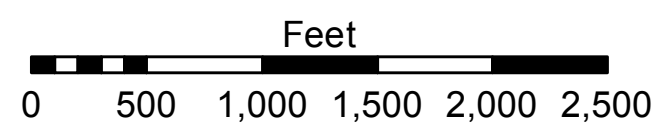
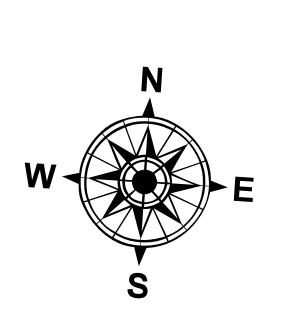


LEGEND	
--- Federal Navigation Channel	● Cable Area
— Federal Navigation Center Line	□ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	✈ Wrecks-Submerged
□ Borrow Area	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
★ Beacon, General	◆ Green Navigation Buoy
◆ Red Navigation Buoy	■ 0' and above
◆ Green Navigation Buoy	■ 0' to -5'
	■ -5' to -10'
	■ -10' to -20'
	■ -20' to -30'
	■ -30' to -35'
	■ -35' to -40'
	■ -40' to -45'
	■ -45' and below



LWRP: 2.4  
 Gage Reading: BR:38.1 D:27.63 USED:36.3 NGVD  
 Sea Conditions: CALM  
 Vessel Name: OB-189  
 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 N.O.A. Navigation Chart No. 11370.  
 \*\* 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.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: JA, JH	Plotted By: BD
Recommended: Chief, Survey Section	Checked By: AC	Checked By: AC
Approved: Chief, Waterways Maintenance Section		

**MISSISSIPPI RIVER - B.R. TO GULF  
 SARDINE POINT CROSSING  
 MD\_06\_SDP\_20170612\_CS  
 12 June 2017**

**Sheet  
 Reference  
 Number  
 6 of 97**

Revision Number:  
 3.13-20160811



**DISCLAIMER:**  
 The United States Government furnishes these data and the recipient agrees to use them with the express understanding that the data are not to be used for any purpose other than that for which they were originally prepared. The user is responsible for the results obtained from the use of the data for other than its intended purpose.  
 The information depicted on this map represents the results of a survey conducted on the date of the survey. The user is responsible for the results of the survey. The user is responsible for the results of the survey. The user is responsible for the results of the survey.  
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