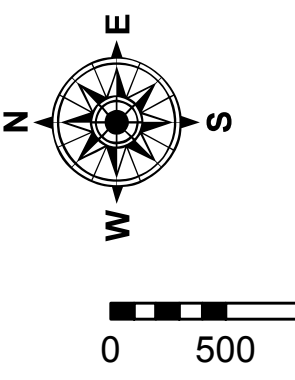


LEGEND		
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area
— Federal Navigation Center Line	▭ Placement Area	● Shoalest Sounding**
— As-built Pipeline/Cable	⊗ Anchorage Area	☆ Beacon, General
⋯ Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy
— Project Depth Contour	✶ Wrecks-Submerged	◆ Green Navigation Buoy
		0' and above
		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: 2.8  
 BR:30.81 D:21.4 USED:31.20 NGVD  
 Gage Reading:  
 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.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 bathymeter settings.



**ACCESSORIES:**  
 Access: 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. The user is responsible for the reliability, usability or suitability for any particular purpose of the data. The user shall indemnify and hold the Government harmless under no liability whatsoever to any person by reason of any use of these data. These data belong to the Government. Therefore the recipient may not transfer, disseminate, or otherwise use these data to others without the written consent of the Army Corps of Engineers. The recipient shall be responsible for changes in the hydrographical conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey conducted on or about the date indicated. The information is considered to represent the general condition existing at that time.  
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U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Checked By: MSK
Recommended:	Checked By: MSK
Surveyed By: DR,SR	Printed By: BITD

**MISSISSIPPI RIVER - B.R. TO GULF  
 BATON ROUGE FRONT RECON  
 MR\_01\_BRF\_20160218  
 18 February 2016**

**Sheet Reference Number  
 1 of 97**