



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:** 1.7  
**Gage Reading:** BR:8.0D:4.4 USED:5.4 NGVD  
**Sea Conditions:** CALM  
**Vessel Name:** 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 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.



**Accession:** 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 originally prepared, and that the user is responsible for the results obtained. The user is advised that the data are not to be used for any purpose other than that for which they were originally prepared, and that the user is responsible for the results obtained. The user is advised that the data are not to be used for any purpose other than that for which they were originally prepared, and that the user is responsible for the results obtained.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: SPS:JH
Recommended:	Plotted By: AO
Approved:	Checked By: AO

**MISSISSIPPI RIVER - B.R. TO GULF  
 ALHAMBRA RECON  
 MR\_16\_ALH\_20161201  
 01 December 2016**

**Sheet Reference Number  
 16 of 97**