



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:23.0D:15.7 USED:17.8 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 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.



DISCLAIMER: The data represented on this map is the result of data collection for a specific project. The data is not intended for use in any other project. The user is responsible for the accuracy, completeness, and timeliness of the data. The user is not to be held liable for any errors or omissions in the data. The user is not to be held liable for any damages, including consequential damages, arising from the use of the data. The user is not to be held liable for any changes in the data. The user is not to be held liable for any updates to the data. The user is not to be held liable for any deletions of the data. The user is not to be held liable for any additions to the data. The user is not to be held liable for any modifications to the data. The user is not to be held liable for any deletions of the data. The user is not to be held liable for any additions to the data. The user is not to be held liable for any modifications to the data.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	DR:JA
Recommended:	AO
Approved:	MK

**MISSISSIPPI RIVER - B.R. TO GULF
 ALHAMBRA RECON
 MR_16_ALH_20151202
 02 December 2015**

**Sheet
 Reference
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