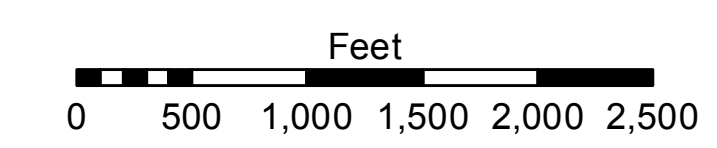
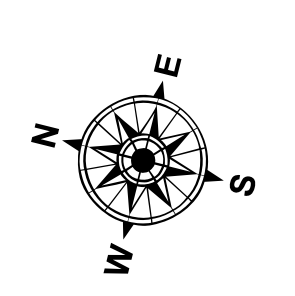


LEGEND

--- Federal Navigation Channel	○ Cable Area	□ Borrow 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 -10'
⋯ Unconfirmed Pipeline/Cable	⊗ Obstruction Point	♦ Red Navigation Buoy	-10' to -20'
— Project Depth Contour	✦ Wrecks-Submerged	♦ Green Navigation Buoy	-20' to -30'
			-30' to -35'
			-35' to -40'
			-40' to -45'
			-45' and below



LWRP: 1.2
 Gage Reading: D:5.0 R:4.2 USED:4.70 NAVD
 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 (NAVD).

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 fathometer settings.

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Submitted:	Surveyed By:	RYLAND/ADAMS
Recommended:	Plotted By:	BD
Approved:	Checked By:	AC

Other Waterways Maintenance Section

**MISSISSIPPI RIVER - B.R. TO GULF
 RICH BEND CROSSING
 MD_29_RIB_20211105_CS
 05 November 2021**

**Sheet
 Reference
 Number
 29 of 97**

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DATE CONSTRAINTS: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activities, channel migration, and other factors. The U.S. Army Corps of Engineers does not warrant the accuracy of the data for use in the hydrographic conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey conducted on the date specified and is not to be considered as representing the general condition existing at that time.

