



LEGEND

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|----------------------------------|---------------------|-------------------------|------------------|
| --- 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: 2.3
 Gage Reading: BR:9.0 D:4.8 USED: 8.30 NAVD
 Sea Conditions: CALM
 Vessel Name: M/V 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.
 2015 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 information depicted on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. It is not intended to be used for any purpose other than that for which it was prepared. The user is responsible for the results of any application of the data for other than its intended purpose. Data Constants: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging operations, channel migration, and changes in the bathymetry of the river. The user is responsible for the results of any application of the data for other than its intended purpose. The information depicted on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. It is not intended to be used for any purpose other than that for which it was prepared. The user is responsible for the results of any application of the data for other than its intended purpose.

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| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
| Submitted: _____ | Surveyed By: RYLAND/ADAMS |
| Recommended: _____ | Plotted By: JH |
| Approved: _____ | Checked By: JH |
| Chief, Survey Section | |
| Chief, Waterways Maintenance Section | |

**MISSISSIPPI RIVER - B.R. TO GULF
 SARDINE POINT CROSSING
 MD_06_SDP_20220802_CS
 02 August 2022**

**Sheet Reference Number
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