



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 |

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.

LWRP: 1.4
 Gage Reading: BR:35.82 D:25.55 USED:25.5 NGVD
 Sea Conditions: CALM
 Vessel Name: OB-189
 Survey Type: CONDITION
 Sounding Frequency***: HIGH

Scale: 0 500 1,000 1,500 2,000 2,500 Feet



DISCLAIMER:
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data. The user is responsible for the results of the application of the data for other than its intended purpose. These data are provided for informational purposes only and are not to be used for any other purpose. The user is responsible for the results of the application of the data for other than its intended purpose. The user is responsible for the results of the application of the data for other than its intended purpose. The user is responsible for the results of the application of the data for other than its intended purpose.

**U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT**

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| Submitted: | Surveyed By: DS/DK |
| Recommended: Chief Survey Section | Plotted By: BD |
| Approved: Chief Waterways Maintenance Section | Checked By: AC |

**MISSISSIPPI RIVER - B.R. TO GULF
 SMOKE BEND RECON
 MR_22_SMB_20180502_CS
 02 May 2018**

**Sheet Reference Number
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