



**LEGEND**

|                                  |                     |                         |                  |
|----------------------------------|---------------------|-------------------------|------------------|
| --- Federal Navigation Channel   | ○ Cable Area        | ■ Shoaling 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 (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.

2017 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: 1.5  
Gage Reading: BR:11.3 D:5.5 USED:6.1 NAVD88  
Sea Conditions: CALM  
Vessel Name: OB189  
Survey Type: CS  
Sounding Frequency\*\*\*: HIGH

Feet  
0 500 1,000 1,500 2,000 2,500



**DISCLAIMER**

The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any purpose other than that for which they were prepared, and that the user is responsible for the results of their use. The user is responsible for the results of their use. The user is responsible for the results of their use. The user is responsible for the results of their use.

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| U.S. ARMY CORPS OF ENGINEERS<br>NEW ORLEANS DISTRICT |                           |
| Submitted:   | Surveyed By: CHAMPE/ADAMS |
| Recommended:   | Plotted By: JH            |
| Approved:  | Checked By: JH            |

**MISSISSIPPI RIVER - B. R. TO GULF**  
81 MILE POINT  
MD\_21\_81PX\_20240816\_CS  
16 August 2024

**Sheet Reference Number**  
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