



**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.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: 0.3  
Gage Reading: WP:5.5 EM:4.1 USED: 5.1 NAVD  
Sea Conditions: ROUGH  
Vessel Name: LAFORUCHE  
Survey Type: CS  
Sounding Frequency\*\*\*: HIGH

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



**Access to Information:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are not to be used for any purpose other than that for which they were prepared or applied. The user is responsible for the results expressed or implied. The user is responsible for the results expressed or implied. The user is responsible for the results expressed or implied. The user is responsible for the results expressed or implied.

**Distribution Liability:** The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. It is not to be used for any purpose other than that for which it was prepared. The user is responsible for the results expressed or implied. The user is responsible for the results expressed or implied. The user is responsible for the results expressed or implied.

**Data Accuracy:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing bathymetry, sedimentation, and other factors. The user is responsible for the results expressed or implied. The user is responsible for the results expressed or implied. The user is responsible for the results expressed or implied.

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

|              |                         |
|--------------|-------------------------|
| Submitted:   | Surveyed By:<br>DJS/SPS |
| Recommended: | Plotted By:<br>AO       |
| Approved:    | Checked By:<br>AC       |

**MISSISSIPPI RIVER - B.R. TO GULF  
POINT A LA HACHE - SHEET 4  
MD\_82\_PHAX\_20210519\_CS  
19 May 2021**

**Sheet Reference Number  
82 of 97**

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