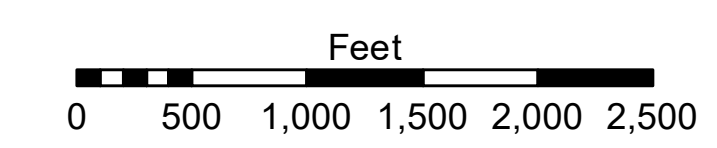
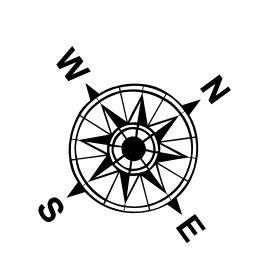


LEGEND			
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ 0' and above
— Federal Navigation Center Line	■ Placement Area	● Shoalest Sounding**	■ 0' to -5'
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General	■ -5' to -10'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red 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: 1.8  
 Gage Reading: BR:43.7D:31.7 USED:36.9 NGVD  
 Sea Conditions: SMOOTH  
 Vessel Name: LAFOURCHE  
 Survey Type: CS  
 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 (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.

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 data represents the results of data collection performed for a specific US Army Corps of Engineers project. The data is not intended for use in any other project. The user is responsible for the results of any application of the data for other than its intended purpose. The application of the data for other than its intended purpose may result in injury, death, or property damage. The US Army Corps of Engineers does not assume any liability for such damage or injury. The information depicted on this map represents the results of a survey conducted on the date of the survey. The information is not intended to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: DJS/SPS	Plotted By: AO
Recommended: Chert, Survey Section	Checked By: AO	Checked By: AO
Approved: Chert, Waterways Maintenance Section		

**MISSISSIPPI RIVER - B.R. TO GULF  
 BAYOU GOULA RECON  
 MR\_13\_GOU\_20190313\_CS  
 13 March 2019**

**Sheet Reference Number  
 13 of 97**

Revision Number:  
 3.13-20160811