



<b>LEGEND</b>	
— Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	■ Placement Area
— As-built Pipeline/Cable	□ Unconfirmed Placement Area
..... Unconfirmed Pipeline/Cable	— Anchorage Area
— Project Depth Contour	○ Obstruction Point
	★ Beacon, General
	◆ Red Navigation Buoy
	◆ Green Navigation Buoy
	◆ Wrecks-Submerged
	◆ Borrow Area
	● Shoalest Sounding**
	◆ Beacon, General
	◆ Red Navigation Buoy
	◆ Green Navigation Buoy

LWRP:	1.9
Gage Reading:	BR42.3 D:30.11 USES:36.8 NGVD
Sea Conditions:	CALM
Vessel Name:	MV LAFOURCHE
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 (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.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.



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U.S. ARMY CORPS OF ENGINEERS	
Surveyed By:	SP_PPS
Submitted:	
Printed By:	BD
Recommended:	One Survey Section
Approved:	One Waterways Maintenance Section
Checked By:	AO

**MISSISSIPPI RIVER - B.R. TO GULF**  
**GRANADA RECON**  
**MR\_10\_GRA\_20190625\_CS**  
25 June 2019

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Reference  
Number  
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