



**LEGEND**

--- Federal Navigation Channel

— Federal Navigation Center Line

— As-built Pipeline/Cable

..... Unconfirmed Pipeline/Cable

— Project Depth Contour

○ Cable Area

□ Anchorage Area

⊗ Obstruction Point

✶ Wrecks-Submerged

□ Borrow Area

● Shoalest Sounding\*\*

☆ Beacon, General

◆ Red Navigation Buoy

◆ Green Navigation Buoy

0' and above

0' to -5'

-5' to -10'

-10' to -20'

-20' to -30'

-30' to -35'

-35' to -40'

-40' to -45'

-45' and below

N  
E  
S  
W

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

Feet

LWRP: 1.9

Gage Reading: BR:17.57 D:10.27 USED:14.3 NGVD

Sea Conditions: CALM

Vessel Name: M/V 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.

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.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT			
Submitted:	Surveyed By: DIS/SFP	Plotted By: BTD	Checked By: AC
Recommended: Chief, Survey Section			
Approved: Chief, Waterways Maintenance Section			

MISSISSIPPI RIVER - B.R. TO GULF  
GRANADA RECON  
MR\_10\_GRA\_20160725  
25 July 2016

Sheet  
Reference  
Number  
10 of 97

US Army Corps of Engineers  
District: CEMVN

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**Date:** 25 July 2016

**Data:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling and scouring processes. The U.S. Army Corps of Engineers does not warrant the accuracy of the data in the hydrographical conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey conducted under the conditions stated in the title block. The Corps of Engineers does not warrant the accuracy of the data for any other purpose.