

**AGENCY:** U.S. Army Corps of Engineers, District: CEMVN  
**PROJECT:** Mississippi River - B.R. to Gulf Bayou Goula Recon  
**DATE:** 02 August 2017

**Legend:**  
 - Federal Navigation Channel  
 - Federal Navigation Center Line  
 - As-built Pipeline/Cable  
 - Unconfirmed Pipeline/Cable  
 - Project Depth Contour  
 - Cable Area  
 - Placement Area  
 - Anchorage Area  
 - Obstruction Point  
 - Wrecks-Submerged  
 - Borrow Area  
 - Shoalest Sounding\*\*  
 - Beacon, General  
 - Red Navigation Buoy  
 - Green Navigation Buoy

**Notes:**  
 - LWRP: 1.8  
 - Gage Reading: BR: 15.4 D:9.0 USED:11.7 NGVD  
 - Sea Conditions: CALM  
 - Vessel Name: MV LAFOURCHE  
 - Survey Type: CONDITION  
 - Sounding Frequency\*\*\*: HIGH

**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.

**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.

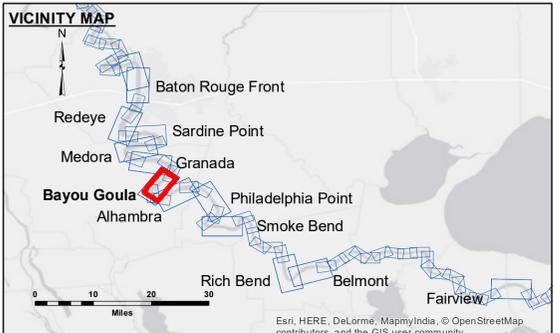
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 Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.

**Reference:**  
 Reference is N.O.A.A. Navigation Chart No. 11370.  
 2010 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.

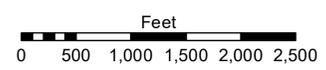
**\*\*\* Shoalest Sounding per Quarter per Reach.**  
 \*\*\* High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer 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: DS/PS	Plotted By: BD
Recommended: Chief, Survey Section	Checked By: AC	Approved By: AC

**MISSISSIPPI RIVER - B.R. TO GULF  
 BAYOU GOULA RECON  
 MR\_13\_GOU\_20170802\_CS  
 02 August 2017**



LEGEND	
--- Federal Navigation Channel	0' and above
— Federal Navigation Center Line	0' to -5'
— As-built Pipeline/Cable	-5' to -10'
..... Unconfirmed Pipeline/Cable	-10' to -20'
— Project Depth Contour	-20' to -30'
□ Cable Area	-30' to -35'
□ Placement Area	-35' to -40'
□ Anchorage Area	-40' to 45'
□ Obstruction Point	-45' and below
□ Wrecks-Submerged	
□ Borrow Area	
● Shoalest Sounding**	
★ Beacon, General	
◆ Red Navigation Buoy	
◆ Green Navigation Buoy	



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