



LEGEND			
	Federal Navigation Channel		Borrow Area
	Federal Navigation Center Line		Shoalest Sounding**
	As-built Pipeline/Cable		Beacon, General
	Unconfirmed Pipeline/Cable		Red Navigation Buoy
	Project Depth Contour		Green Navigation Buoy
	Cable Area		0' and above
	Placement Area		0' to -5'
	Anchorage Area		-5' to -10'
	Obstruction Point		-10' to -20'
	Wrecks-Submerged		-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 (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.

**LWRP:** 1.8  
**Gage Reading:** BR:19.6 D:12.35 USED:15.50 NGVD  
**Sea Conditions:** CALM  
**Vessel Name:** OB-189  
**Survey Type:** CONDITION  
**Sounding Frequency\*\*\*:** HIGH

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



**Access/Availability:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are for official use only and are not to be used for any other purpose. The user is responsible for the results of any use of the data for other than its intended purpose.

**Distribution Liability:** The data represents the results of data collection processing for a specific US Army Corps of Engineers project. It is not intended for general use. The user is responsible for the results of any use of the data for other than its intended purpose.

**Data Accuracy:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, sedimentation, and channel migration. The user is responsible for the results of any use of the data for other than its intended purpose.

**Disclaimer:** The information depicted on this map represents the results of a survey conducted on the date of the survey. It is not intended to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By:	RYLAND/SOONNER
Recommended:	Plotted By:	BD
Approved:	Checked By:	AC

**MISSISSIPPI RIVER - B.R. TO GULF**  
**BAYOU GOULA RECON**  
**MR\_13\_GOU\_20170215**  
**15 February 2017**

**Sheet Reference Number**  
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