



| 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' |
| | Borrow Area | | -40' to 45' |
| | Shoalest Sounding** | | -45' and below |
| | Beacon, General | | |
| | Red Navigation Buoy | | |
| | Green Navigation Buoy | | |
| | Anchorage Area | | |
| | Obstruction Point | | |
| | Wrecks-Submerged | | |

LWRP: 1.8
 Gage Reading: BR:10.5 D:7.53 USED: 8.80 NGVD
 Sea Conditions: CALM
 Vessel Name: OB 189
 Survey Type: CONDITION
 Sounding Frequency***: HIGH

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

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 based 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.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 bathymeter settings.

US Army Corps of Engineers
District: CEMVN

DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information furnished. The user is responsible for the results of the use of the information furnished. The application of the data for other than its intended purpose is at the user's risk. The user is responsible for the results of the use of the information furnished. The user is responsible for the results of the use of the information furnished. The user is responsible for the results of the use of the information furnished.

| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
|--|-------|
| Submitted: | DR,JA |
| Recommended: | BTJ |
| Approved: | MSK |

MISSISSIPPI RIVER - B.R. TO GULF
BAYOU GOULA RECON
MR_13_GOU_20151027
27 October 2015

Sheet Reference Number
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