



LEGEND

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

LWRP: 1.8
Gage Reading: BR:27.67 D:18.65 USED:22.50 NGVD
Sea Conditions: CALM
Vessel Name: O189
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.



ACCESSORIES

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

DISTRICT LIABILITY: The data represents the results of data collection processing for a specific US Army Corps of Engineers project. The user is responsible for the results of the application of the data for other than its intended purpose.

DATE CONSTRAINTS: 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 accuracy of the data used in the project. The user is responsible for the results of the application of the data for other than its intended purpose.

The information depicted on this map represents the results of a survey conducted on the date indicated. 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: |
| Recommended: | RYLAND/ADAMS |
| Approved: | Plotted By: |
| | BD |
| | Checked By: |
| | AC |

MISSISSIPPI RIVER - B.R. TO GULF
BAYOU GOULA RECON
MR_13_GOU_20170628
28 June 2017

Sheet Reference Number
13 of 97

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