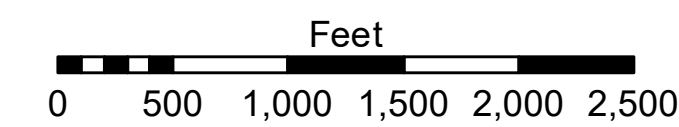
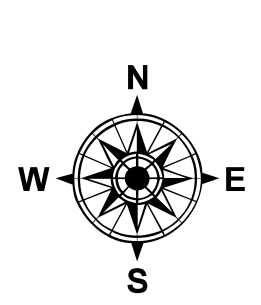


LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- As-built Pipeline/Cable
- Unconfirmed Pipeline/Cable
- Project Depth Contour
- Placement 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



LWRP: 1.1
 Gage Reading: R:5.61 NO:4.28 USED:4.8 NGVD
 Sea Conditions: CHOPPY
 Vessel Name: OB-167
 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.

DISCLAIMER

The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are provided for informational purposes only and are not intended for, nor shall they be used for, any purpose other than that intended. The user is responsible for the results of any use of this data and shall bear all liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the Government provides these data on a non-exclusive basis and the recipient may not transfer these data to others without obtaining the permission of the U.S. Army Corps of Engineers. The information depicted on this map represents the results of a survey conducted on or about the date indicated and is not to be considered as representing the general condition existing at that time.

Distribution Liability: The data represents the results of data collection processing for a specific US Army Corps of Engineers project and is only valid for its intended use. Control, time and accuracy specifications. The user is responsible for the results of any use of this data and shall bear all liability whatsoever to any person by reason of any use made thereof. The application of the data for other than its intended purpose. Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging operations and channel shifts. The US Army Corps of Engineers does not warrant the accuracy of the hydrographic conditions when developed after the date of the survey. The user should verify the accuracy of the data for any intended use. Product maintainers should not rely solely on this report.

Submitted:	Recommended:	Approved:
DS/SP	BD	AC
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
U.S. ARMY CORPERS OF ENGINEERS NEW ORLEANS DISTRICT		

**MISSISSIPPI RIVER - B.R. TO GULF
 FAIRVIEW RECON
 MR_48_FRV_20171024_CS
 24 October 2017**

**Sheet Reference Number
 48 of 97**

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