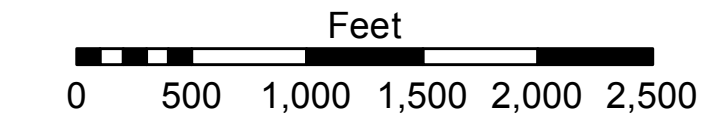


| LEGEND | |
|----------------------------------|-----------------------|
| --- Federal Navigation Channel | ● Cable Area |
| — Federal Navigation Center Line | ■ Placement Area |
| — As-built Pipeline/Cable | □ Anchorage Area |
| Unconfirmed Pipeline/Cable | ⊗ Obstruction Point |
| — Project Depth Contour | ✈ Wrecks-Submerged |
| □ Borrow Area | ★ Beacon, General |
| ● Shoalest Sounding** | ◆ 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 |

Notes:
 LWRP: 1.5
 Gage Reading: BR:27.6D:18.7 USED:19.9 NGVD
 Sea Conditions: SMOOTH
 Vessel Name: OB189
 Survey Type: RECON
 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 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. 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.



Access to Data: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were originally collected, and that the data are not to be used for any purpose other than that for which they were originally collected. The user is responsible for the results of any use of the data for other than the intended purpose. The application of the data for other than the intended purpose is at the user's risk.

| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
|--|--------------------|
| Submitted: | Surveyed By: DS/PS |
| Recommended: | Plotted By: AO |
| Approved: | Checked By: MK |

**MISSISSIPPI RIVER - B.R. TO GULF
 PHILADELPHIA POINT RECON
 MR_19_PHP_20160503
 03 May 2016**

**Sheet Reference Number
 19 of 97**

Revision Number: 3.8-9-20150202