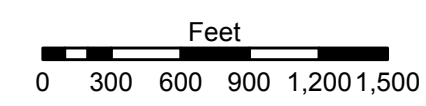
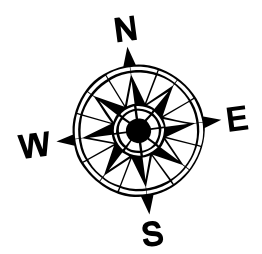


**LEGEND**

|                                  |                     |                         |                 |
|----------------------------------|---------------------|-------------------------|-----------------|
| --- Federal Navigation Channel   | ○ Cable Area        | ■ Shoaling 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 -9'    |
| ..... Unconfirmed Pipeline/Cable | ⊗ Obstruction Point | ◆ Red Navigation Buoy   | □ -9' and below |
| — Project Depth Contour          | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |                 |



LWRP: 12.6  
 Gage Reading: RR:19.07 BR:7.76 USED:17.90 NGVD  
 Sea Conditions: CALM  
 Vessel Name: OB-189  
 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 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 USACE IENC U35LM236.  
 \*\* 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 data represents the results of data collection processing for a specific US Army Corps of Engineers project. The data is only valid for its intended use, control, time and accuracy specifications. The user is responsible for the results and any errors. The application of the data for other than its intended purpose. Data Collection: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, shoaling, and other factors. The Corps of Engineers does not assume any liability for changes in the hydrographical conditions when developed after the date of the data collection. Product maintainers should not rely solely upon this internal use. Product maintainers should not rely solely upon this internal use.

U.S. ARMY CORPS OF ENGINEERS  
 NEW ORLEANS DISTRICT

|  |                     |
|--|---------------------|
| Submitted:                                     | Surveyed By: SR, JH |
| Recommended: Chief, Survey Section             | Plotted By: BITD    |
| Approved: Chief, Waterways Maintenance Section | Checked By: MSK     |

**MISSISSIPPI RIVER - SHALLOW DRAFT**  
**SMITHLAND - SHEET 3**  
**MS\_11\_SM3\_20151021**  
**21 October 2015**

**Sheet Reference Number**  
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