



LEGEND

| | | | |
|----------------------------------|---------------------|-------------------------|------------------|
| --- Federal Navigation Channel | ○ Cable Area | □ Borrow Area | ■ -12' and above |
| — Federal Navigation Center Line | □ Placement Area | ● Shoalest Sounding** | □ -12' and below |
| — As-built Pipeline/Cable | □ Anchorage Area | ★ Beacon, General | |
| Unconfirmed Pipeline/Cable | ⊗ Obstruction Point | ◆ Red Navigation Buoy | |
| — Project Depth Contour | ✈ Wrecks-Submerged | ◆ Green Navigation Buoy | |

Gage Reading: FW AND LB: 1.10 MLG AVG.
 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 Mean Low Gulf Datum (MLG). Datum Relationships for gage 76592 / 76593 as of August 2011: 0.0' NAVD83 (2006.81) = 0.9' MLLW = 1.9' MLG or 0.0' MLLW = 1.0' MLG
 Distances on the Freshwater Bayou are shown at 1 mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE survey crews.
 2015 Aerial Photography data source: NAIP
 Reference is N.O.A. Navigation Chart No. 11350.
 ** 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 they are not to be used for any purpose other than that for which they were prepared, and that the user is responsible for the results of any use of these data for other than the intended purpose. The information depicted on this map represents the results of a hydrographic survey conducted on the date of the survey. The user is responsible for the results of any use of these data for other than the intended purpose. The information depicted on this map represents the results of a hydrographic survey conducted on the date of the survey. The user is responsible for the results of any use of these data for other than the intended purpose.

| | |
|--|----------------|
| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
| Submitted: | RYLAND/HOSHMAN |
| Recommended: | BD |
| Checked By: | AC |

**FRESHWATER BAYOU
 LOWER CHANNEL
 FB_09_LWR_20181114_CS
 14 November 2018**

**Sheet Reference Number
 9 of 19**