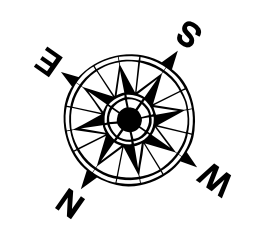
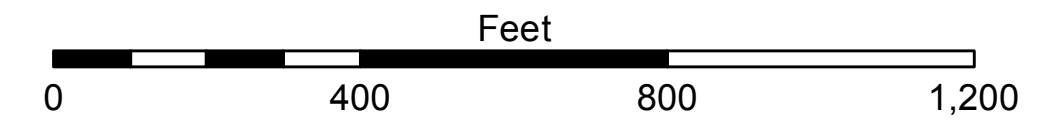


LEGEND

| | | | |
|----------------------------------|---------------------|-------------------------|------------------|
| --- 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: LB LOCK EAST: 3.4 MLG AVG
 Sea Conditions: CHOP
 Vessel Name: OB-169
 Survey Type: CONDITION
 Sounding Frequency***: LOW



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.
 2017 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 the Government makes no warranty, 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 any use of the information under no liability whatsoever to any person by reason of any use made in law. These data are provided to the recipient for their internal use only and are not to be used for any other purpose. The recipient may not transfer these data to others without also transferring the Disclaimer. The information depicted on this map represents the results of a survey conducted on the date of the survey and is not intended to represent the general condition existing at that time.

| | |
|--|--------------------|
| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
| Submitted: _____ | Surveyed By: SP-SK |
| Recommended: _____ | Plotted By: JHT |
| Approved: _____ | Checked By: JHT |
| Chief, Waterways Maintenance Section | |

**FRESHWATER BAYOU
 UPPER CHANNEL
 FB_04_UPR_20220222_CS
 22 February 2022**

**Sheet Reference Number
 4 of 19**