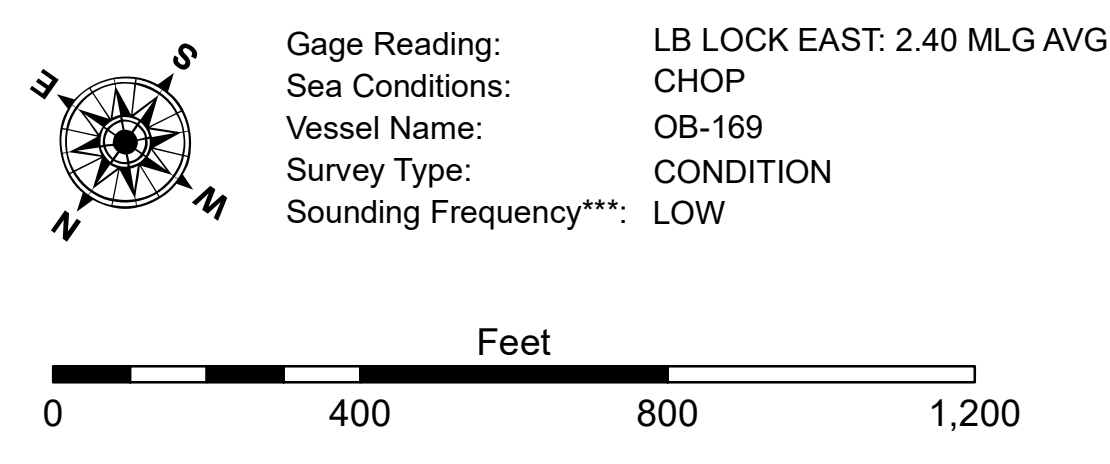


**LEGEND**

--- 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	



**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**  
 Access. Contaminants. The United States Government furnishes  
 these data and the recipient accepts and uses them with the express  
 understanding that the data are not warranted for any purpose other than  
 that for which they were collected. The user is responsible for the results  
 of any use of the data for other than the intended purpose.  
 Data Constants: Hydrographic survey data is subject to change  
 rapidly due to several factors including, but not limited to, changing  
 hydrological conditions which develop after the date of the  
 survey. The Army Corps of Engineers accepts no responsibility for changes in  
 the hydrological conditions which develop after the date of the  
 survey. The recipient may not transfer these data to others without  
 the written consent of the Army Corps of Engineers. The recipient  
 is to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: SP,SR
Recommended: Chief, Survey Section	Plotted By: JH
Approved: Chief, Waterways Maintenance Section	Checked By: JH

**FRESHWATER BAYOU  
 UPPER CHANNEL  
 FB\_02\_UPR\_20230221\_CS  
 21 February 2023**

**Sheet  
 Reference  
 Number  
 2 of 19**

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 4.2-20230420