



LEGEND

--- Federal Navigation Channel	○ Cable Area	□ Borrow Area
— Federal Navigation Center Line	▭ Placement Area	● Shoalest Sounding**
— As-built Pipeline/Cable	⊠ Anchorage Area	☆ Beacon, General
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy
— Project Depth Contour	✈ Wrecks-Submerged	◆ Green Navigation Buoy
		■ -15' and above
		□ -15' and below

Gage Reading: 2.5 MLG AVG
 Sea Conditions: CALM
 Vessel Name: M/V OB189
 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).
 The location of navigation aids are base on and provided by the U.S. Coast Guard.
 2015 Aerial Photography data source: NAIP. 1998 DOQQ imagery shown in green from USGS.
 Reference is N.O.A. Navigation Chart No. 11344 and 11348.
 ** 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, either expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data. The recipient shall be responsible for the accuracy of the data under no liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the recipient may not transfer, copy, reproduce, or disseminate these data to others without the written consent of the U.S. Army Corps of Engineers. 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: RYLAND/SONNIER
Recommended: Chief Survey Section	Filed By: AO
Approved: Chief Waterways Maintenance Section	Checked By: AO

**MERMENTAU RIVER
 LOWER RIVER
 MM_10_LWR_20190305_CS_B2B
 05 March 2019**

**Sheet
 Reference
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