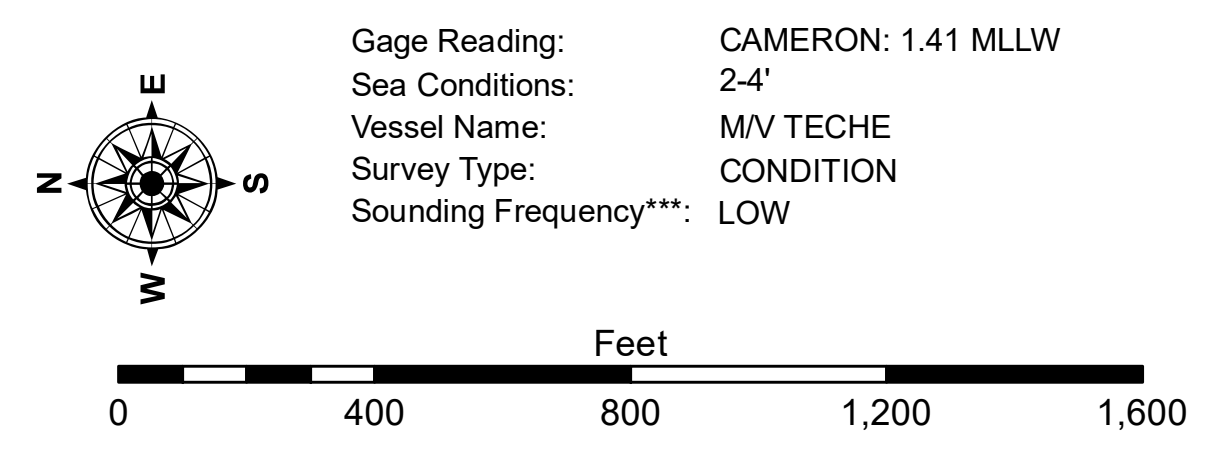


LEGEND

--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	■ -16' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -16' to -21'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -21' to -26'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -26' to -33'
— Project Depth Contour	✈ Wrecks-Submerged	◆ Green Navigation Buoy	■ -33' to -39'
			■ -39' to -41'
			■ -41' to -43'
			■ -43' and below



NOTES:
 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 Lower Low Water Datum (MLLW). Datum Relationships for gage 73650 as of December 2013: 0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' MLG or 0.0' MLLW = 1.0' MLG
 Distances on the Calcasieu River 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.A. Navigation Chart No. 11339.
 * Difference between high and low frequency elevations where greater than 1.0'.
 ** 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, readability, usability or suitability for any particular purpose of the information. The user is responsible for the results obtained from the use of this information. The user shall not be held under no liability whatsoever to any person by reason of any use made in reliance on the information. These data are provided as a service to the public and are not to be used for any purpose other than that for which they were prepared. The information depicted on this map represents the results of a survey conducted on or about the date indicated and is not to be considered to represent the general condition existing at that time.
 Distribution Liability: The data represent the results of data collection sponsored by a specific US Army Corps of Engineers District. The data are not to be used for any purpose other than that for which they were prepared. The user is responsible for the results obtained from the use of this information. The user shall not be held under no liability whatsoever to any person by reason of any use made in reliance on the information. These data are provided as a service to the public and are not to be used for any purpose other than that for which they were prepared. The information depicted on this map represents the results of a survey conducted on or about the date indicated and is not to be considered to represent the general condition existing at that time.

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

**CALCASIEU SHIP CHANNEL
 BAR SHEET 49
 CR_49_BAR_20170911_CS_POSTSTORM
 11 September 2017**

**Sheet Reference Number
 49 of 53**