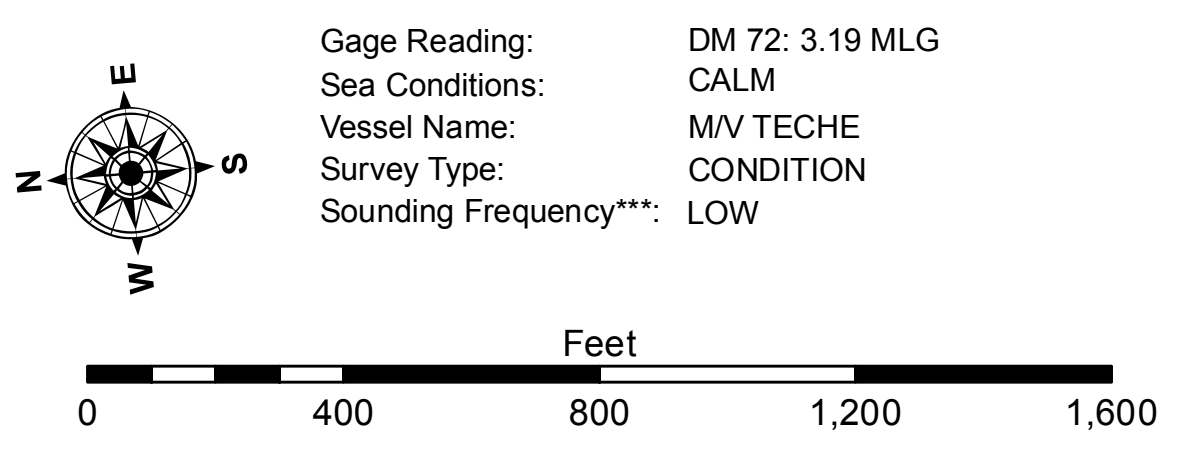


LEGEND			
- - - Federal Navigation Channel	○ Cable Area	□ Borrow Area	-15' and above
— Federal Navigation Center Line	▭ Placement Area	● Shoalest Sounding**	-15' to -20'
— As-built Pipeline/Cable	▭ Anchorage Area	☆ Beacon, General	-20' to -25'
⋯ Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	-25' to -32'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	-32' to -38'
			-38' to -40'
			-40' to -42'
			-42' and below



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 73615 as of December 2013: 0.0' NAVD83 (2009.55) = 1.1' MLLW = 2.1' 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.
 2010 Aerial Photography data source: NAIP
 Reference is N.O.A.A. Navigation Chart No. 11339.
 ** 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 data are not to be used for any purpose other than that for which they were originally prepared, or implied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. The user is responsible for the results obtained from the use of these data. Application of the data for other than its intended purpose. The user assumes all liability for any use of these data under no liability whatsoever to any person by reason of any use made in reliance on these data. These data are provided as they are and are not to be construed as a warranty of any kind. The recipient may not transfer these data to others without also transferring this disclaimer. The information depicted on this map represents the results of a survey conducted on or about the date indicated. It is not to be considered a representation of the general condition existing at that time.

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

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 19
 CR_19_LWR_20151105
 05 November 2015**

**Sheet Reference Number
 19 of 53**

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