



LEGEND			
	Federal Navigation Channel		Cable Area
	Federal Navigation Center Line		Placement Area
	As-built Pipeline/Cable		Anchorage Area
	Unconfirmed Pipeline/Cable		Obstruction Point
	Project Depth Contour		Wrecks-Submerged
	Fluff Thickness (feet)*		Shoalest Sounding**
	Beacon, General		Red Navigation Buoy
	Green Navigation Buoy		Green Navigation Buoy

Gage Reading: CAMERON: 3.3 MLG AVG
 Sea Conditions: 1' SEAS
 Vessel Name: M/V TECHE
 Survey Type: CONDITION
 Sounding Frequency***: 24 kHz

Vertical Datum: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.

Distances on the Calcasieu River are shown at 1 mile intervals.

The location of navigation aids are based 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.

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: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.

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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 in any way that may be construed as an endorsement, approval, or warranty of the accuracy, completeness, or reliability of the data. The user is responsible for the results of any use of the data for other than its intended purpose. Application of the data for other than its intended purpose may result in injury or death.

The information depicted on this map represents the results of a hydrographic survey conducted on the date of the survey. The information is not to be used for any purpose other than that for which it was originally prepared, or in any way that may be construed as an endorsement, approval, or warranty of the accuracy, completeness, or reliability of the data. The user is responsible for the results of any use of the data for other than its intended purpose. Application of the data for other than its intended purpose may result in injury or death.

Submitted:	Surveyed By: JA, JH
Recommended:	Plotted By: AO
Approved:	Checked By: AO

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT
 Chief, Waterways Maintenance Section

CALCASIEU SHIP CHANNEL
BAR SHEET 31
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01 September 2017

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