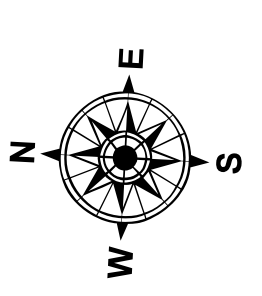


LEGEND

--- 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



Gage Reading: RANGE D: 2.2 MLG AVG.
 Sea Conditions: CALM
 Vessel Name: M/V TECHE
 Survey Type: CONDITION
 Sounding Frequency***: LOW

Vertical Datum:
 Soundings are shown in feet and indicate depths below Mean Low Gull Datum (MLG).
 Datum Relationships for gage 73985 as of December 2013:
 0.0 NAVD83 (OPUS 2013) = 0.8' MLLW = 1.8' 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 warranted for accuracy, completeness, or implied liability for its intended use, content, time and accuracy specifications. The user is responsible for the results of any use of the data for other than its intended purpose.
 Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging operations, channel migration, and other factors. The user is responsible for the results of any use of the data for other than its intended purpose. The information depicted on the map represents the results of a survey conducted on the date shown 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: SJR_JDH	Plotted By: BTD	Checked By: TAF
Recommended:	Chart Survey Section		
Approved:	Chart, Waterways Maintenance Section		

**CALCASIEU SHIP CHANNEL
 UPPER SHEET 10
 CR_10_UPR_20150409
 09 April 2015**

**Sheet Reference Number
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