



LEGEND			
	Federal Navigation Channel		3 Fluff Thickness (feet)*
	Federal Navigation Center Line		Shoalest Sounding**
	As-built Pipeline/Cable		Beacon, General
	Unconfirmed Pipeline/Cable		Red Navigation Buoy
	Project Depth Contour		Green Navigation Buoy
	Cable Area		Obstruction Point
	Placement Area		Wrecks-Submerged
	Anchorage Area		

Gage Reading: RANGE D: 3.04 MLG  
 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 Gulf Datum (MLG).  
 Datum Relationships for gage 73585 as of December 2013:  
 0.0' NAVD88 (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.

2015 Aerial Photography data source: NAIP  
 Reference is N.O.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:  
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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 warranted for any purpose other than that for which they were prepared, and that the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data is not guaranteed. The user is responsible for the results obtained from the use of the data. The user is responsible for the results obtained from the use of the data. The user is responsible for the results obtained from the use of the data. The user is responsible for the results obtained from the use of the data.

Submitted:	Surveyed By: SJR/JH
Recommended:	Plotted By: BD
Approved:	Checked By: AC

U.S. ARMY CORPS OF ENGINEERS  
 NEW ORLEANS DISTRICT

**CALCASIEU SHIP CHANNEL**  
**DEVIL'S ELBOW - SH 1**  
**CR\_50\_DE1\_20170511\_CS**  
 11 May 2017

**Sheet Reference Number**  
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