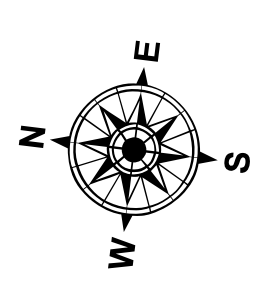
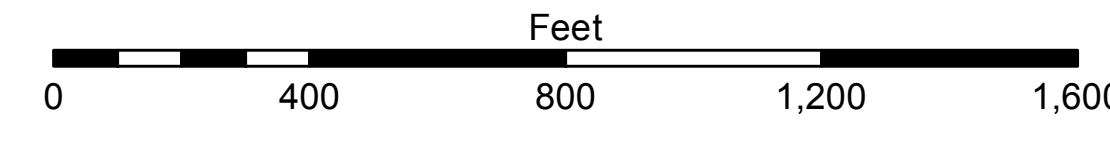


LEGEND			
	Federal Navigation Channel		-16' and above
	Federal Navigation Center Line		-16' to -21'
	As-built Pipeline/Cable		-21' to -26'
	Unconfirmed Pipeline/Cable		-26' to -33'
	Project Depth Contour		-33' to -39'
	Cable Area		-39' to -41'
	Placement Area		-41' to -43'
	Anchorage Area		-43' and below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



Gage Reading: CAMERON: 2.2 MLLW
 Sea Conditions: CALM
 Vessel Name: M/V VALENTOUR
 Survey Type: CONDITION
 Sounding Frequency***: LOW



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 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 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.

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, reliability, usability or suitability for any particular purpose of the information furnished. The user is responsible for the results obtained from the use of this information. Application of the data for other than the intended purpose is at the user's risk. The user is responsible for the results obtained from the use of this information. Application of the data for other than the intended purpose is at the user's risk. The user is responsible for the results obtained from the use of this information. Application of the data for other than the intended purpose is at the user's risk.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: RYLAND ADAMS	Plotted By: AO
Recommended:	Checked:	Checked By: AO
Approved:	Chief, Survey Section	Chief, Waterways Maintenance Section

CALCASIEU SHIP CHANNEL
BAR SHEET 29
CR_29_BAR_20201007_CS
07 October 2020

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