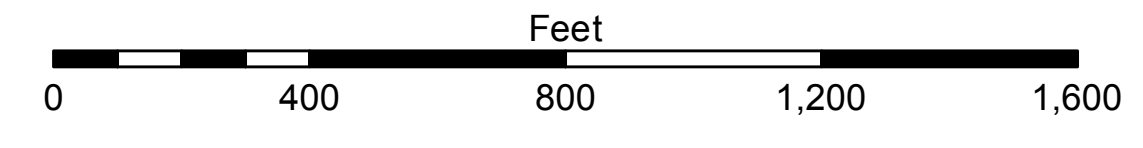
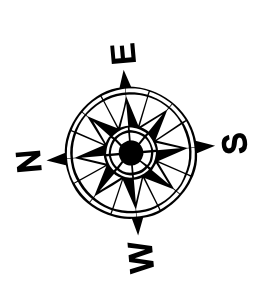


LEGEND			
--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	-16' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-16' to -21'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	-21' to -26'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	-26' to -33'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	-33' to -39'
			-39' to -41'
			-41' to -43'
			-43' and below



Gage Reading: DM57: 1.40 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 73625 as of December 2013:
 0.0' NAVD83 (2009.55) = 1.2' MLLW = 2.2' 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.



DISCLAIMER:
 The information depicted on this map represents the results of a survey conducted under contract to the U.S. Army Corps of Engineers. The user of this information is advised that the data is for informational purposes only and is not to be used for any other purpose without the express written consent of the U.S. Army Corps of Engineers. The user is responsible for the accuracy, completeness, and reliability of the information for its intended use, control, time and accuracy specifications. The user is responsible for the results of any application of the data for other than its intended purpose. The U.S. Army Corps of Engineers accepts no responsibility for changes in the hydrographical conditions which develop after the date of the survey. The user is advised that the data is not to be used for any other purpose without the express written consent of the U.S. Army Corps of Engineers. The user is responsible for the accuracy, completeness, and reliability of the information for its intended use, control, time and accuracy specifications. The user is responsible for the results of any application of the data for other than its intended purpose. The U.S. Army Corps of Engineers accepts no responsibility for changes in the hydrographical conditions which develop after the date of the survey. The user is advised that the data is not to be used for any other purpose without the express written consent of the U.S. Army Corps of Engineers.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted: RYLAND/ADAMS	Plotted By: JHT
Recommended: JHT	Checked By: JHT
Approved: JHT	

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 21
 CR_21_LWR_20210824_CS
 24 August 2021**

**Sheet Reference Number
 21 of 53**