

DISCLAIMER
 The information depicted on this map represents the results of a hydrographic survey conducted by the U.S. Army Corps of Engineers. The data is for informational purposes only and is not intended for navigation. The user is responsible for the accuracy, completeness, and reliability of the data. The Corps of Engineers does not warrant the accuracy of the data for any purpose other than that for which it was collected. The Corps of Engineers is not responsible for any damage or injury resulting from the use of this data. The Corps of Engineers is not responsible for any change in the hydrographic conditions which develop after the date of the survey. The Corps of Engineers is not responsible for any change in the hydrographic conditions which develop after the date of the survey. The Corps of Engineers is not responsible for any change in the hydrographic conditions which develop after the date of the survey.

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 gauge 73615 as of December 2013:
 0.0' NAVD83 (2009.55) = 1.1' MLLW = 2.1' MGL or 0.0' MLLW = 1.0' MGL
 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. 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.

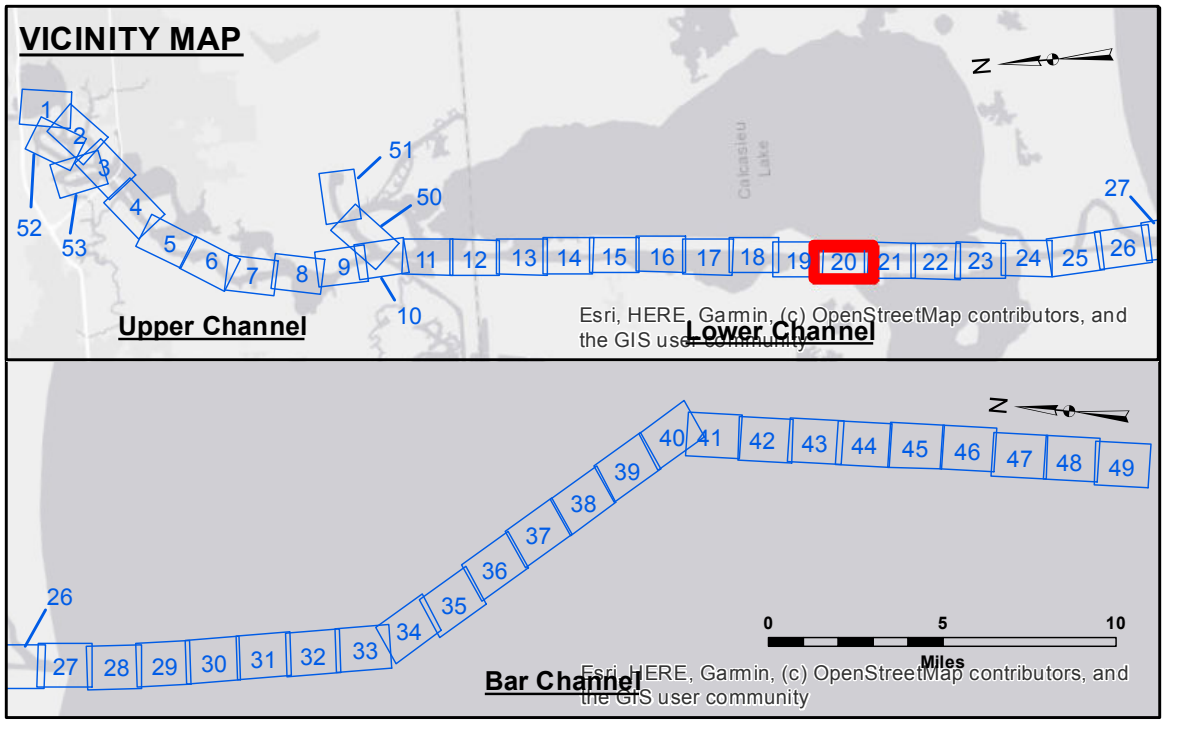
Submitted:	Surveyed By:	RYLAND/ADAMS
Recommended:	Plotted By:	AO
Approved:	Chief, Survey Section	AO
	Chief, Waterways Maintenance Section	AO

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

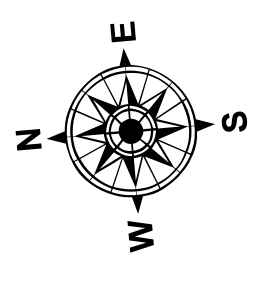
**CALCASIEU SHIP CHANNEL
 LOWER SHEET 20
 CR_20_LWR_20201002_PR
 02 October 2020**

**Sheet Reference Number
 20 of 53**

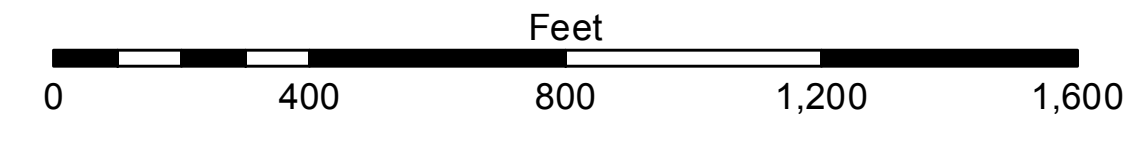
Revision Number:
 4.1-20191105



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
3 Fluff Thickness (feet)*	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
★ Beacon, General	◆ Green Navigation Buoy
■ -16' and above	
■ -16' to -21'	
■ -21' to -26'	
■ -26' to -33'	
■ -33' to -39'	
■ -39' to -41'	
■ -41' to -43'	
■ -43' and below	



Gage Reading: DM 72: 2.0 MLLW
 Sea Conditions: CALM
 Vessel Name: M/V VALENTOUR
 Survey Type: CONDITION
 Sounding Frequency***: LOW



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