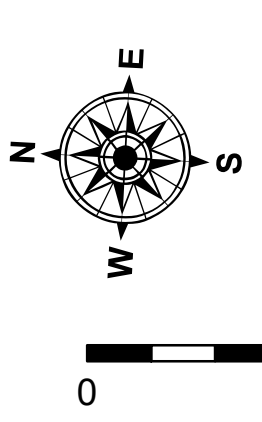


LEGEND		
Federal Navigation Channel	Placement Area	-16' and above
Federal Navigation Center Line	Anchorage Area	-16' to -21'
As-built Pipeline/Cable	Obstruction Point	-21' to -26'
Unconfirmed Pipeline/Cable	Beacons, General	-26' to -33'
Project Depth Contour	Wrecks-Submerged	-33' to -39'
Cable Area	Fluff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



Gage Reading: NTRIP RTK VRS: 1.12 MLLW AVG.
 Sea Conditions: CALM
 Vessel Name: MV TECHE
 Survey Type: CONDITION
 Sounding Frequency***: LOW

Vertical Datum: 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.

2022 Aerial Photography data source: PAR LLC
 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.



DISTRICT
 U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Access/Compliance: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are for general information only. It is not to be used for any purpose other than that for which it was prepared, or for any purpose where accuracy, completeness, reliability, usability or suitability, for any particular purpose of the recipient, is required. The user is responsible for the results of any use of these data. The user shall be held responsible for any damage or injury under no liability whatsoever to any person by reason of any use of these data. The user shall be held responsible for any damage or injury under no liability whatsoever to any person by reason of any use of these data. The user shall be held responsible for any damage or injury under no liability whatsoever to any person by reason of any use of these data. The user shall be held responsible for any damage or injury under no liability whatsoever to any person by reason of any use of these data.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: SP-JS	Plotted By: BD
Recommended:	Checked: Survey Section	Checked By: ADJH
Approved:	Chief, Waterways Maintenance Section	

**CALCASIEU SHIP CHANNEL
 UPPER SHEET 9
 CR_09_UPR_20230510_CS
 10 May 2023**

**Sheet Reference Number
 9 of 53**

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