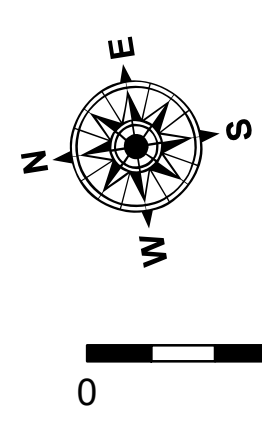


LEGEND			
--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	-16' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-16' to -21'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	-21' to -26'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	-26' to -28'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	-28' to -34'
			-34' to -36'
			-36' to -38'
			-38' and below



Gage Reading: NTRIP RTK VRS: 0.77 MLLW
 Sea Conditions: CALM
 Vessel Name: MV TECHE
 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 (MLLW). Datum Relationships for gage 73550 as of December 2013: 0.0' NAVD83 (OPUS 2010) = 0.6' MLLW = 1.6' 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. 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 for a specific project and is not intended for general use. It is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any use of this information for purposes other than those intended for the project. Data Constants: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, sedimentation, and changes in channel conditions. The user is responsible for the results of any use of this information for purposes other than those intended for the project. The information depicted on this map represents the results of a survey conducted for a specific project and is not intended for general use. It is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any use of this information for purposes other than those intended for the project.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: SPSR	Plotted By: JH
Recommended:	Chart, Survey Section	Checked By: JH
Approved:	Chart, Waterways Maintenance Section	

**CALCASIEU SHIP CHANNEL
 UPPER SHEET 1
 CR_01_UPR_20230315_CS
 15 March 2023**

**Sheet Reference Number
 1 of 53**

Revision Number:
 4-2-2020(0420)