



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: HACKBERRY:0.5 MLLW
 Sea Conditions: CHOP
 Vessel Name: MV TECHE
 Survey Type: CONDITION
 Sounding Frequency***: HIGH/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 73600 as of December 2013:
 0.0' NAVD83 (OPUS 2010) = 1.0' MLLW = 2.0' 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.

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Submitted:	Surveyed By: SPSR
Recommended: Chart, Survey Section	Plotted By: JH
Approved:	Checked By: AC

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 14
 CR_14_LWR_20230329_CS
 29 March 2023**

**Sheet
 Reference
 Number
 14 of 53**

US Army Corps of Engineers District: CEMVN

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Data Constraints: 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 the data for other than the intended purpose. The user is responsible for the results of any use of the data for other than the intended purpose.

The information depicted on this map represents the results of a survey conducted on the date indicated. The user is responsible for the results of any use of the data for other than the intended purpose. The user is responsible for the results of any use of the data for other than the intended purpose.