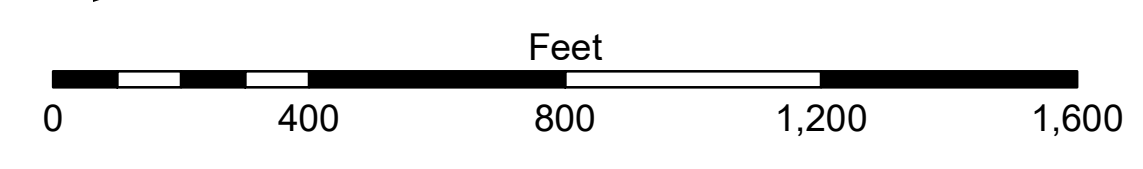
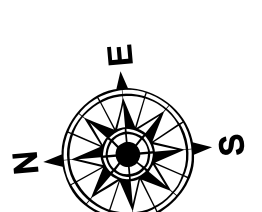


LEGEND			
	Federal Navigation Channel		-16' and above
	Federal Navigation Center Line		-16' to -21'
	As-built Pipeline/Cable		-21' to -26'
	Unconfirmed Pipeline/Cable		-26' to -33'
	Project Depth Contour		-33' to -39'
	Cable Area		-39' to -41'
	Placement Area		-41' to -43'
	Anchorage Area		-43' and below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



Gage Reading: HACKBERRY: 0.6 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 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: SP-JS
Recommended:	Plotted By: AO
Approved:	Checked By: AO

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 14
 CR_14_LWR_20230501_CS
 01 May 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 changing hydrographic conditions which develop after the date of the survey. The user is not to be held liable for any damage or injury resulting from the use of this data for other than its intended purpose. The user is not to be held liable for any damage or injury resulting from the use of this data for other than its intended purpose.
 The information depicted on this map represents the results of a survey conducted on the date indicated. It is not to be considered a permanent record of the general condition existing at that time.