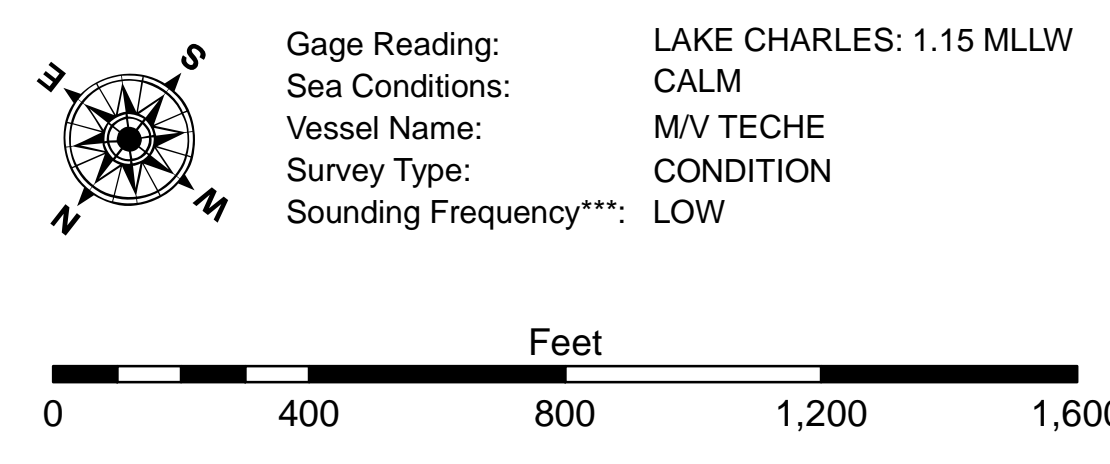


LEGEND			
	Federal Navigation Channel		Placement Area
	Federal Navigation Center Line		Cable Area
	As-built Pipeline/Cable		Beacon, General
	Unconfirmed Pipeline/Cable		Red Navigation Buoy
	Project Depth Contour		Green Navigation Buoy
	Fluff Thickness (feet)*		Obstruction Point
	Shoalest Sounding**	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



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 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 based 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.

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

**CALCASIEU SHIP CHANNEL
 UPPER SHEET 3
 CR_03_UPR_20221205_CS
 05 December 2022**

**Sheet Reference Number
 3 of 53**

Revision Number:
 4.2-2020/W/20

**US Army Corps of Engineers
 District: CEMVN**

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 The information depicted on the map represents the results of the hydrographic survey data which were collected and processed by the Army Corps of Engineers. The recipient may not transfer these data to others without also transferring the Disclaimers. The information depicted on the map represents the results of the hydrographic conditions which develop after the date of the original survey. The recipient should not rely solely upon it.