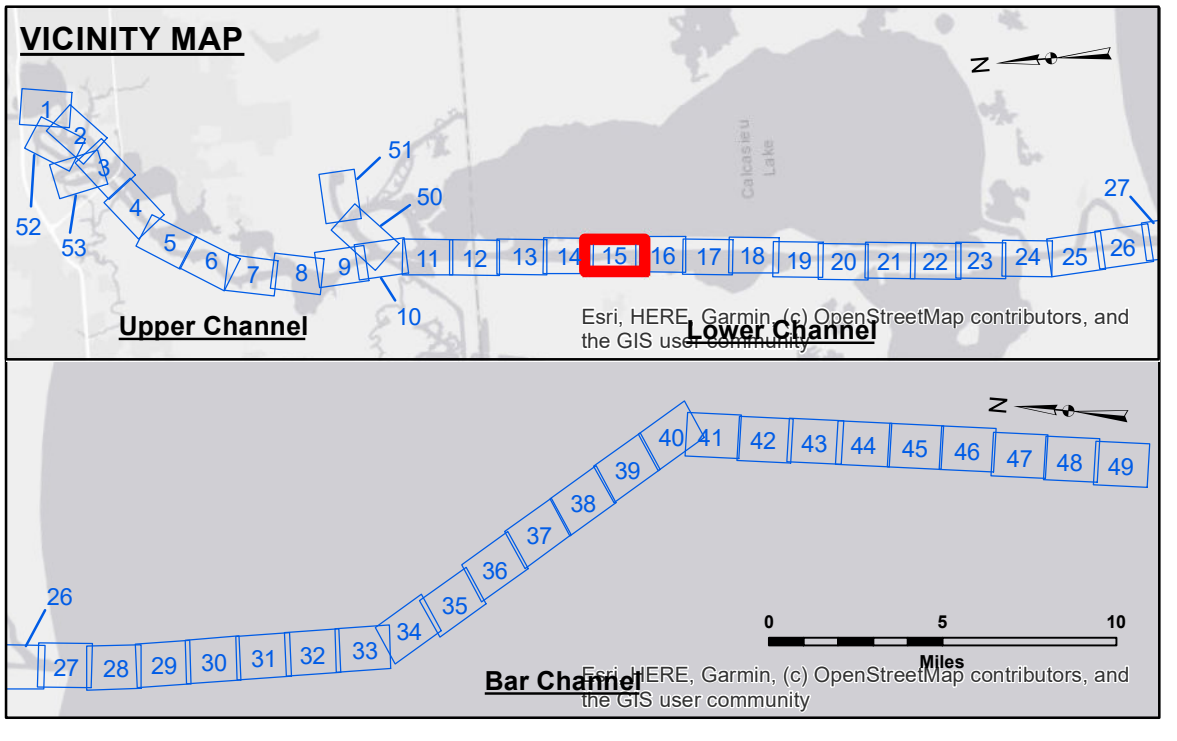


DISCLAIMER
 The data represents the results of data collection for a specific US Army Corps of Engineers project. It is only valid for the intended use, content, time and accuracy specified. The user is responsible for the results of any use of the data for other than the intended purpose.
 Data Constants: 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 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 ground. It is not intended to be used as a substitute for a field inspection or to represent the general condition existing at that time.

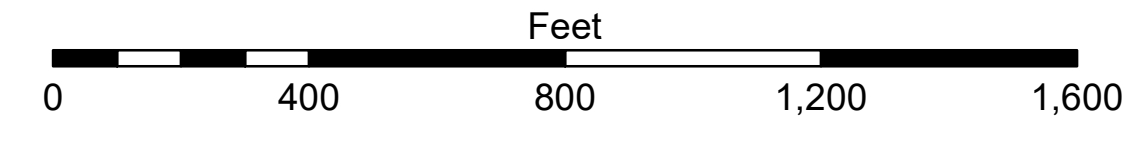
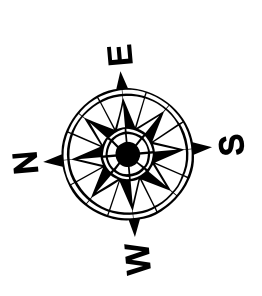
Submitted:	Surveyed By: SP-JS
Recommended:	Plotted By: JH
Checked:	Chart, Survey Section
Approved:	Chart, Waterways Maintenance Section

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT
**CALCASIEU SHIP CHANNEL
 LOWER SHEET 15
 CR_15_LWR_20250107_CS
 07 January 2025**

**Sheet Reference Number
 15 of 53**



LEGEND	
--- Federal Navigation Channel	● Cable Area
— Federal Navigation Center Line	□ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	⊗ Wrecks-Submerged
3 Fluff Thickness (feet)*	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
★ Beacon, General	◆ Green Navigation Buoy
◆ Red Navigation Buoy	
◆ Green Navigation Buoy	



Gage Reading: HACKBERRY VRN: 0.15 MLLW
 Sea Conditions: CHOP
 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' NAVD88 (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. 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.