

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

**Access/Availability:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are not to be used for any purpose other than that for which they were prepared, and that the user is responsible for the accuracy, completeness, timeliness, and accuracy of the data. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data.

**Disclaimer:** The data represents the results of data collection for a specific US Army Corps of Engineers project. It is only valid for its intended use, context, time and accuracy specifications. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data.

**Data Constraints:** Hydrographic survey data is subject to change rapidly due to several factors including, but not limited to, changes in channel conditions, sedimentation, and other factors. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data.

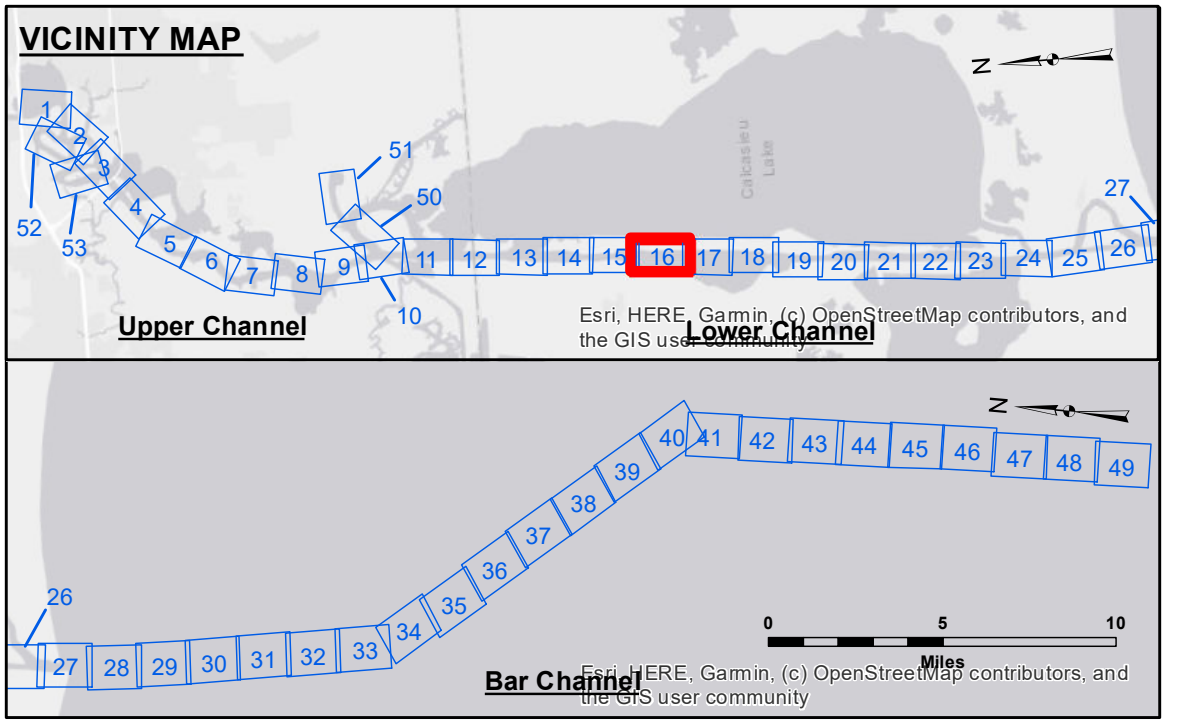
**Information:** The information depicted on this map represents the results of a survey conducted on the date indicated. It is not to be used for any purpose other than that for which it was prepared. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data. The user is responsible for the accuracy, completeness, timeliness, and accuracy of the data.

Submitted:	Surveyed By: SP-JS
Recommended:	Plotted By: BD
Approved:	Checked By: ADJH

U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT

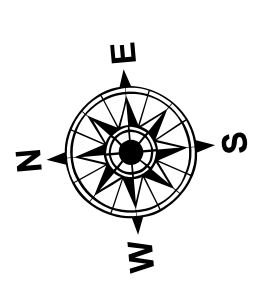
Chief, Survey Section

Chief, Waterways Maintenance Section



**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: NTRIP VRS RTK: 1.94 MLLW AVG.  
 Sea Conditions: CALM  
 Vessel Name: MV TECHE  
 Survey Type: CONDITION  
 Sounding Frequency\*\*\*: LOW

0 400 800 1,200 1,600 Feet

**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 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.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.

**CALCASIEU SHIP CHANNEL  
 LOWER SHEET 16  
 CR\_16\_LWR\_20230605\_CS  
 05 June 2023**

**Sheet Reference Number  
 16 of 53**