

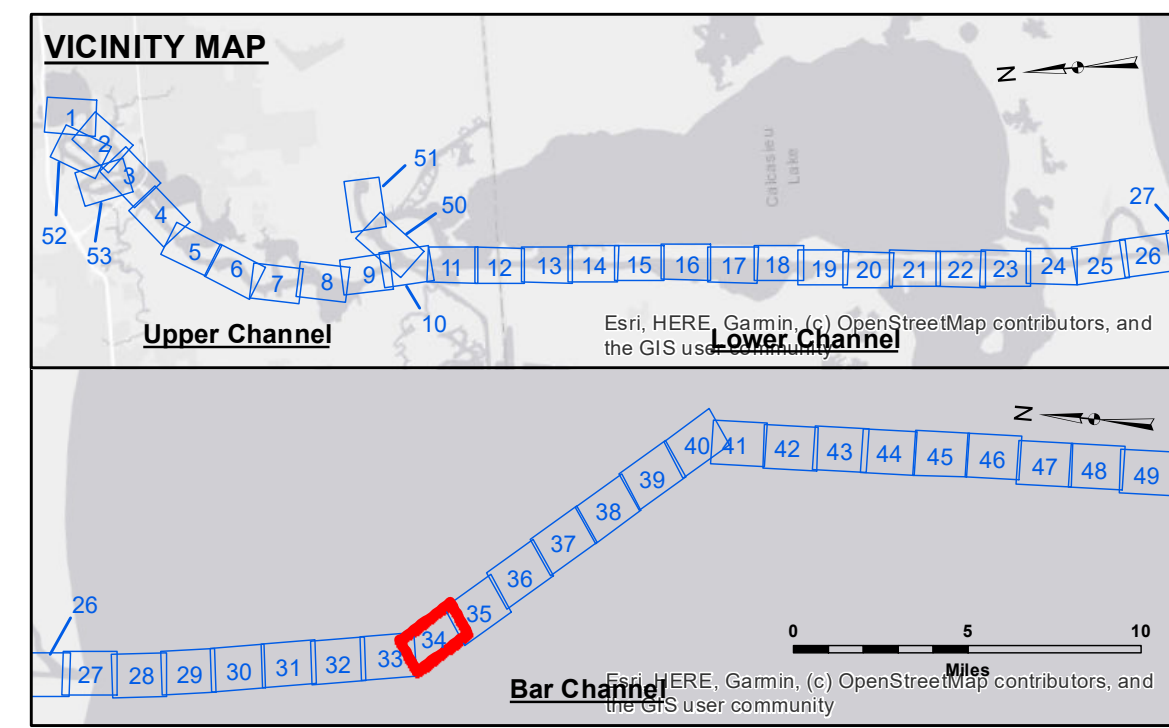
**DISCLAIMER**

The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that these data are provided for general information only and are not intended for use in engineering or other projects. The user is responsible for the results obtained from the use of these data. The user is advised that the use of these data in any project is at the user's own risk and that the user is responsible for obtaining the necessary permits and clearances from the appropriate authorities. The user is also advised that the use of these data in any project is at the user's own risk and that the user is responsible for obtaining the necessary permits and clearances from the appropriate authorities. The user is also advised that the use of these data in any project is at the user's own risk and that the user is responsible for obtaining the necessary permits and clearances from the appropriate authorities.

Submitted:	Surveyed By: SP-JS	Plotted By: BD	Checked By: AOJH
Recommended:	Chief, Survey Section		
Approved:	Chief, Waterways Maintenance Section		

**CALCASIEU SHIP CHANNEL**  
**BAR SHEET 34**  
**CR\_34\_BAR\_20230427\_CS**  
**27 April 2023**

**Sheet Reference Number**  
**34 of 53**



LEGEND		Fluff Thickness (feet)*	
- - - Federal Navigation Channel	⊙ Cable Area	3	-16' and above
— Federal Navigation Center Line	▭ Placement Area	• Shoalest Sounding**	-16' to -21'
— As-built Pipeline/Cable	⊗ Anchorage Area	☆ Beacon, General	-21' to -33'
..... 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 RTK VRS: 2.39 MLLW AVG.  
**Sea Conditions:** CHOPPY  
**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 73650 as of December 2013: 0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' 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.

2015 Aerial Photography data source: NAIP

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.