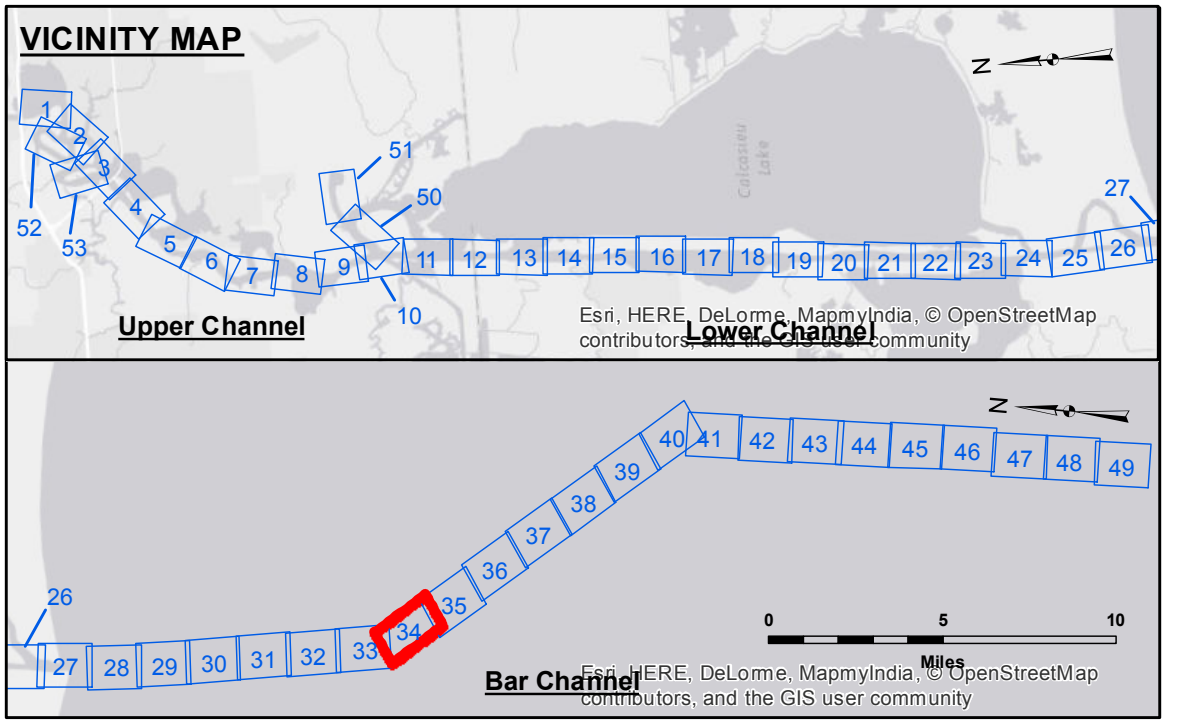


DISCLAIMER

The information depicted on this map represents the results of a survey conducted by the United States Government. The data represents the results of a collection of data for a specific US Army Corps of Engineers project. It is not intended to be used for any other purpose, and its use is limited to the specific project for which it was collected. The user is responsible for the accuracy, reliability, usability, or availability of any data derived from this map. The user is also responsible for the accuracy, reliability, usability, or availability of any data derived from this map. The user is also responsible for the accuracy, reliability, usability, or availability of any data derived from this map.

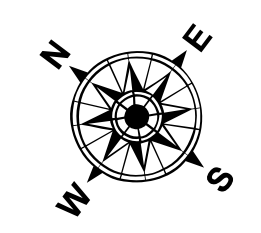
Submitted:	Surveyed By:	Plotted By:	Checked By:
	SPS,JDH	AO	AO
Recommended:	Chart Survey Section		
Approved:	Chief Waterways Maintenance Section		

CALCASIEU SHIP CHANNEL
BAR SHEET 34
CR_34_BAR_20160921
21 September 2016

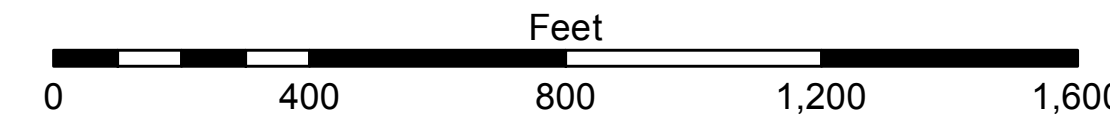


LEGEND

--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	■ -15' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -15' to -20'
— As-built Pipeline/Cable	⊗ Anchorage Area	★ Beacon, General	■ -20' to -25'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -25' to -32'
— Project Depth Contour	⊗ Wrecks-Submerged	◆ Green Navigation Buoy	■ -32' to -38'
			■ -38' to -40'
			■ -40' to -42'
			■ -42' and below



Gage Reading: CAMERON: 2.5 MLG AVG
 Sea Conditions: 1-3' SEAS
 Vessel Name: M/V 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 Low Gulf Datum (MLG). 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.

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Revision Number: 3.8.9-20150202