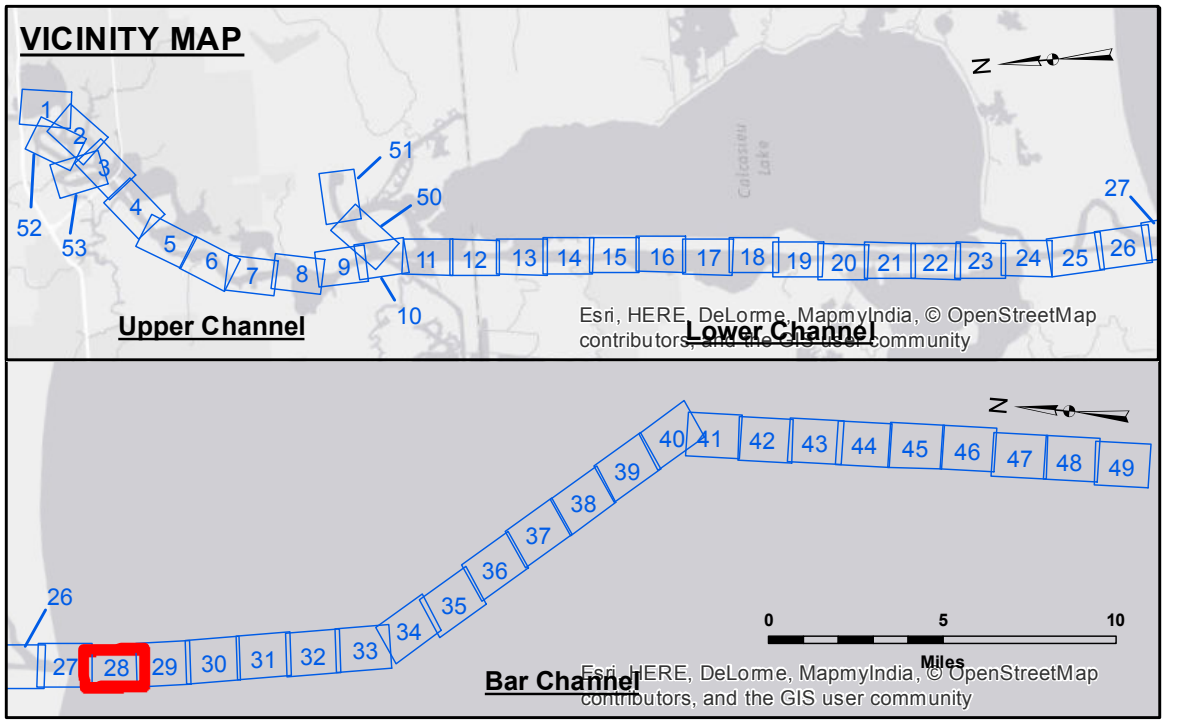


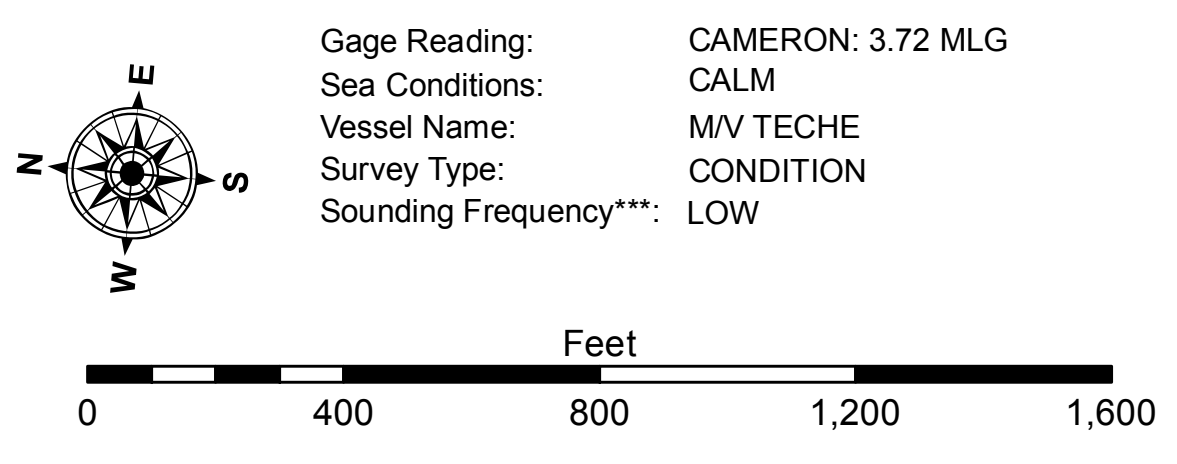
**DISCLAIMER**  
 The information depicted on this map represents the results of a survey conducted by the United States Government. The user is advised that this information is not intended to be used for navigation purposes. The user is responsible for the accuracy, completeness, and reliability of the information for any particular purpose of the user. The user is advised that the information is not intended to be used for navigation purposes. The user is responsible for the accuracy, completeness, and reliability of the information for any particular purpose of the user. The user is advised that the information is not intended to be used for navigation purposes. The user is responsible for the accuracy, completeness, and reliability of the information for any particular purpose of the user.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By:	PS, JH
Recommended:	Plotted By:	BTD
Approved:	Checked By:	TAF

**CALCASIEU SHIP CHANNEL**  
**BAR SHEET 28**  
**CR\_28\_BAR\_20160606**  
**06 June 2016**



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 in feet*	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
● Green Navigation Buoy	◆ Green Navigation Buoy
■ -15' and above	
■ -15' to -20'	
■ -20' to -25'	
■ -25' to -32'	
■ -32' to -38'	
■ -38' to -40'	
■ -40' to -42'	
■ -42' 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: Sounding 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.  
 2010 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.

**Sheet Reference Number**  
**28 of 53**  
 Revision Number: 3.8.9-20150202