

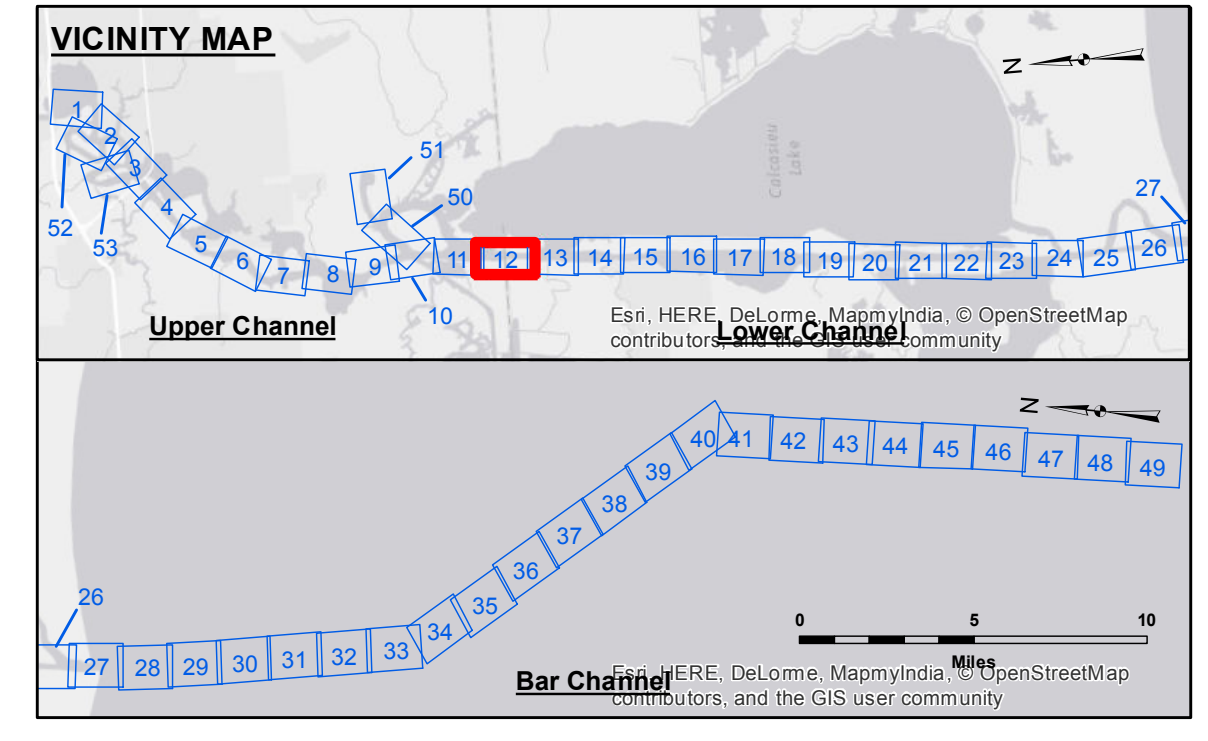
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 The information depicted on this map represents the results of a survey conducted on or after the date of the survey. It is not intended to represent the general condition existing at that time.

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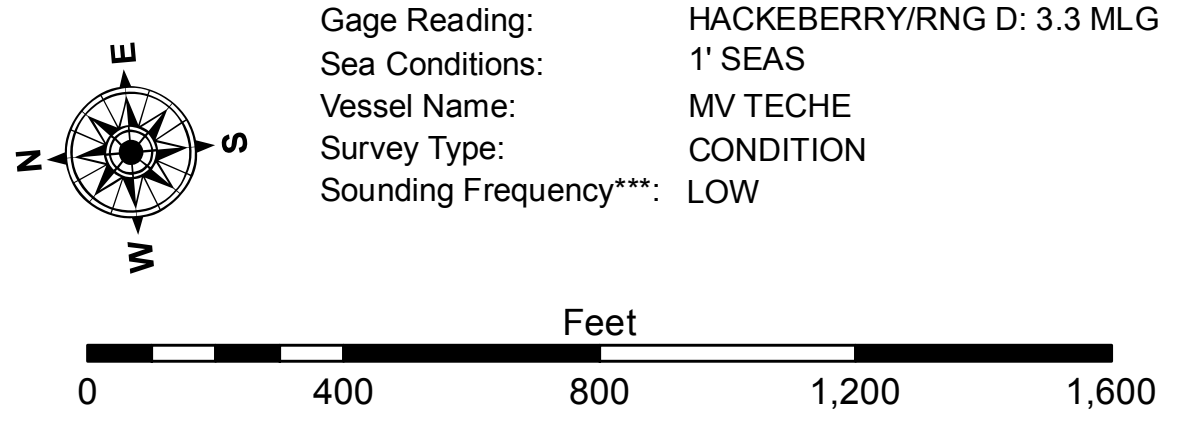
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By:	PS, JH
Recommended:	Plotted By:	AO
Approved:	Chief, Survey Section	
	Chief, Waterways Maintenance Section	

**CALCASIEU SHIP CHANNEL  
 LOWER SHEET 12  
 CR\_12\_LWR\_20170909\_CS\_POSTSTORM  
 09 September 2017**

**Sheet Reference Number  
 12 of 53**



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



**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 73595 as of December 2013:  
 0.0' NAVD88 (OPUS 2013) = 0.9' MLLW = 1.9' 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.  
 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.