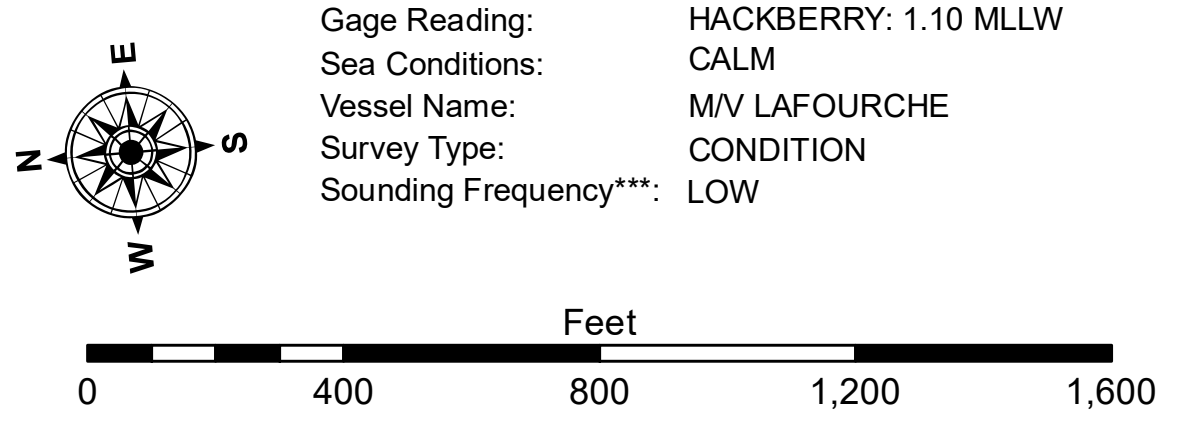


LEGEND			
	Federal Navigation Channel		-16' and above
	Federal Navigation Center Line		-16' to -21'
	As-built Pipeline/Cable		-21' to -26'
	Unconfirmed Pipeline/Cable		-26' to -33'
	Project Depth Contour		-33' to -39'
	Cable Area		-39' to -41'
	Placement Area		-41' to -43'
	Anchorage Area		-43' and below
	Obstruction Point		3 Fluff Thickness (feet)*
	Wrecks-Submerged		Shoalest Sounding**
			Beacon, General
			Red Navigation Buoy
			Green Navigation Buoy



**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 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.

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

**CALCASIEU SHIP CHANNEL  
 LOWER SHEET 14  
 CR\_14\_LWR\_20180419\_CS  
 19 April 2018**

**Sheet Reference Number  
 14 of 53**

Revision Number:  
 3.13-20160811



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**Disclaimer:** The information depicted on this map represents the results of a survey conducted on or about the date shown. The information is not intended to represent the general condition existing at that time.

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**DB: Constraints:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, sedimentation, and changes in channel conditions. The user is responsible for the results of their use. The user shall indemnify and hold the United States Government harmless from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, that may be incurred by the United States Government as a result of the use of these data for any purpose other than that for which they were provided.