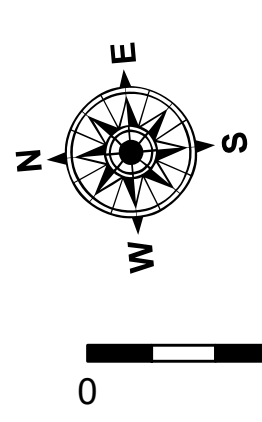


LEGEND

Federal Navigation Channel	Cable Area	Fluff Thickness (feet)*	-16' and above
Federal Navigation Center Line	Placement Area	Shoalest Sounding**	-16' to -21'
As-built Pipeline/Cable	Anchorage Area	Beacon, General	-21' to -26'
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: =HACKBERRY: 1.0 MLLW
 Sea Conditions: CALM
 Vessel Name: M/V LAFOURCHE
 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 73600 as of December 2013: 0.0' NAVD88 (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. 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:	JH/PS
Recommended:	Plotted By:	BD
Approved:	Checked By:	AC

Chief, Waterways Maintenance Section

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 14
 CR_14_LWR_20190124_CS
 24 January 2019**

**Sheet Reference Number
 14 of 53**

Revision Number:
3.13-20160811



DISCLAIMER:
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for accuracy, reliability, usability, or availability for any particular purpose of the recipient. The user is responsible for the results. The user shall indemnify and hold the United States Government harmless from any liability whatsoever in any person by reason of any use of these data. These data are being provided to you for informational purposes only. The United States Government does not warrant that the data are accurate, complete, or that the use of these data will not result in damage to property or injury to persons. The recipient may not transfer these data to others without also transferring this Disclaimer. The information depicted on this map represents the results of a survey conducted on or about the date shown. It is not intended to represent the general condition existing at that time.
 Distribution Liability: The data represent the results of data collection performed for a specific US Army Corps of Engineers project. The data are not warranted for accuracy, reliability, usability, or availability for any particular purpose of the recipient. The user is responsible for the results. The user shall indemnify and hold the United States Government harmless from any liability whatsoever in any person by reason of any use of these data. These data are being provided to you for informational purposes only. The United States Government does not warrant that the data are accurate, complete, or that the use of these data will not result in damage to property or injury to persons. The recipient may not transfer these data to others without also transferring this Disclaimer. The information depicted on this map represents the results of a survey conducted on or about the date shown. It is not intended to represent the general condition existing at that time.
 Data 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 the hydrographic conditions when developed after the date of the survey. The user shall indemnify and hold the United States Government harmless from any liability whatsoever in any person by reason of any use of these data. These data are being provided to you for informational purposes only. The United States Government does not warrant that the data are accurate, complete, or that the use of these data will not result in damage to property or injury to persons. The recipient may not transfer these data to others without also transferring this Disclaimer. The information depicted on this map represents the results of a survey conducted on or about the date shown. It is not intended to represent the general condition existing at that time.