



**LEGEND**

- Federal Navigation Channel
- Federal Navigation Center Line
- As-built Pipeline/Cable
- ..... Unconfirmed Pipeline/Cable
- Project Depth Contour
- Cable Area
- Placement Area
- Anchorage Area
- ⊗ Obstruction Point
- ✈ Wrecks-Submerged
- 3 Fluff Thickness (feet)\*
- Shoalest Sounding\*\*
- ☆ Beacon, General
- ♦ Red Navigation Buoy
- ◆ Green Navigation Buoy
- -16' and above
- -16' to -21'
- -21' to -26'
- -26' to -33'
- -33' to -39'
- -39' to -41'
- -41' to -43'
- -43' 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: 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. Navigation Chart No. 11339.

\* Difference between high and low frequency elevations where greater than 1.0'.  
\*\* Shoalest Sounding per Quarter per Reach.

Gage Reading: HACKBERRY: 2.2 MLLW AVG  
Sea Conditions: ROUGH  
Vessel Name: 189  
Survey Type: CS  
Sounding Frequency\*\*\*: LOW

0 400 800 1,200 1,600 Feet



**DISCLAIMER**

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U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT

|              |                   |
|--------------|-------------------|
| Submitted:   | Surveyed By: JHDS |
| Recommended: | Plotted By: AO    |
| Approved:    | Checked By: AC    |

**CALCASIEU SHIP CHANNEL  
LOWER SHEET 16  
CR\_16\_LWR\_20190430\_BD  
30 April 2019**

Sheet Reference Number  
**16 of 53**

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