



LEGEND

--- Federal Navigation Channel	••• Cable Area	3 Fluff Thickness (feet)*	█ -15' and above
— Federal Navigation Center Line	▭ Placement Area	• Shoalest Sounding**	█ -15' to -20'
— As-built Pipeline/Cable	⊗ Anchorage Area	☆ Beacon, General	█ -20' to -25'
⋯ Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	█ -25' to -32'
— Project Depth Contour	⊗ Wrecks-Submerged	◆ Green Navigation Buoy	█ -32' to -38'
			█ -38' to -40'
			█ -40' to -42'
			█ -42' and below

Gage Reading: LC: 0.8 MLG AVG
 Sea Conditions: CALM
 Vessel Name: 167
 Survey Type: CONDITION
 Sounding Frequency***: LOW

0 400 800 1,200 1,600
 Feet

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 73550 as of December 2013: 0.0' NAVD83 (OPUS 2010) = 0.6' MLLW = 1.6' 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.

US Army Corps of Engineers
 District: CEMVN

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Submitted:	Surveyed By: PM, JH
Recommended:	Plotted By: AO
Checked By: AC	Checked By: AC

U.S. ARMY CORPERS OF ENGINEERS
 NEW ORLEANS DISTRICT

**CALCASIEU SHIP CHANNEL
 CLOONEY ISLAND
 CR_52 CLL_20170213
 13 February 2017**

Sheet Reference Number
 52 of 53