



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

Vertical Datum:
 Soundings are shown in feet and indicate depths below Mean Lower Low Water Datum (MLLW).
 Datum Relationships for gage 73650 as of December 2013:
 0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' 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 based 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.

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:
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US Army Corps of Engineers District: CEMVN

The information depicted on this map represents the results of a hydrographic survey conducted by the U.S. Army Corps of Engineers. The data was collected using a CHIRP echosounder and a GNSS receiver. The data was processed using the following software: HYPACK, ECHOSWATH, and SURFER. The data was then plotted on a map of the Gulf of Mexico. The map shows the location of the disposal area and the location of the navigation aids. The map also shows the location of the Calcasieu Channel and the location of the Calcasieu River. The map is intended for use by the U.S. Army Corps of Engineers and other authorized personnel. The map is not to be used for any other purpose without the express written consent of the U.S. Army Corps of Engineers. The U.S. Army Corps of Engineers is not responsible for any errors or omissions in this map. The U.S. Army Corps of Engineers is not responsible for any damage or injury resulting from the use of this map. The U.S. Army Corps of Engineers is not responsible for any loss of life or property resulting from the use of this map. The U.S. Army Corps of Engineers is not responsible for any other consequences resulting from the use of this map.

Surveyed By: JDH/ADAMS	Plotted By: BD	Checked By: AC
Submitted:	Recommended: Chief, Survey Section	Approved: Chief, Waterways Maintenance Section

**CALCASIEU SHIP CHANNEL
 BAR SHEET 35
 CR_35_BAR_20200613_CS_POSTSTORM
 13 June 2020**

**Sheet Reference Number
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