

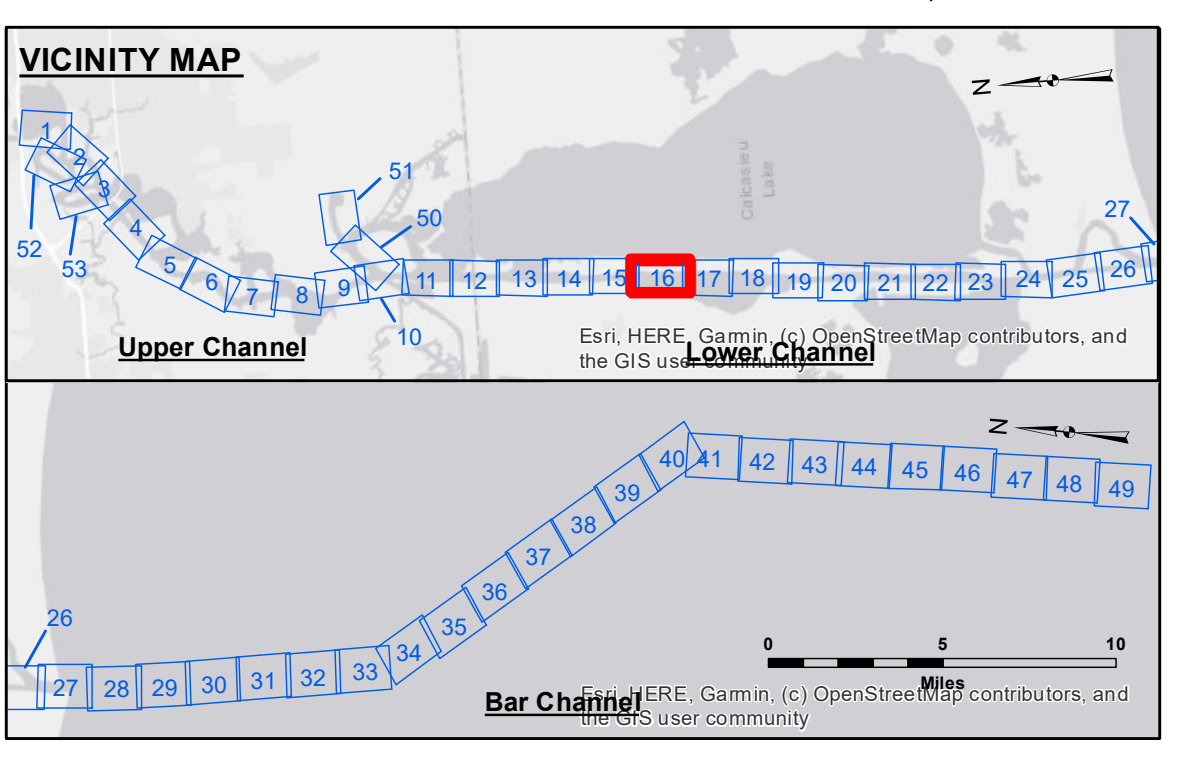
Access/Availability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are for general information only and are not to be used for any purpose other than that for which they were prepared, or to be used for any purpose other than that for which they were prepared, or to be used for any purpose other than that for which they were prepared.

Disclaimer: The information depicted on this map represents the results of a survey conducted on or about the date of the survey. The Corps of Engineers does not warrant the accuracy of the information depicted on this map, and the user of this map is advised to verify the information depicted on this map before using it for any purpose other than that for which it was prepared.

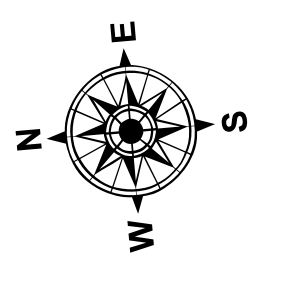
Submitted:	SPSR
Recommended:	BD
Checked By:	AO/H
Approved:	Chief, Waterways Maintenance Section

**CALCASIEU SHIP CHANNEL
LOWER SHEET 16
CR_16_LWR_20230207_CS
07 February 2023**

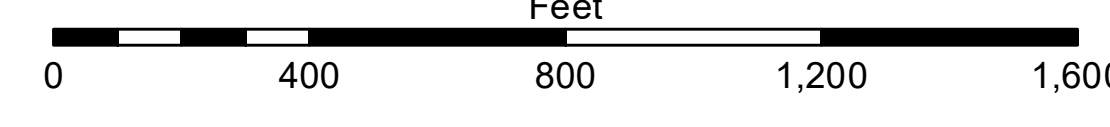
**Sheet Reference Number
16 of 53**



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



Gage Reading: NTRIP VRS RTK: 1.29 MLLW
 Sea Conditions: CALM
 Vessel Name: MV TECHE
 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' 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 based on and provided by the U.S. Coast Guard and USACE survey crews.
 2022 Aerial Photography data source: PAR LLC
 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.