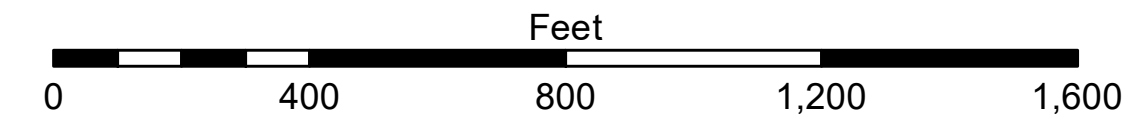
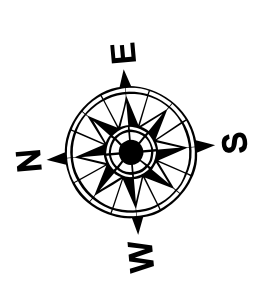


**LEGEND**

|                                  |                     |                           |                  |
|----------------------------------|---------------------|---------------------------|------------------|
| --- Federal Navigation Channel   | ○ Cable Area        | 3 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: DM 86 VRN: 0.93 MLLW AVG.  
 Sea Conditions: CALM  
 Vessel Name: M/V 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 73595 as of December 2013:  
 0.0' NAVD83 (OPUS 2013) = 0.9' MLLW = 1.9' 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.  
 2022 Aerial Photography data source: PAR LLC  
 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.



**DISCLAIMER**  
 The information depicted on this map represents the results of a survey conducted under contract to the U.S. Army Corps of Engineers. The user of this information is advised that it is only valid for its intended use, control, time and accuracy specifications. The user is responsible for the results of any application of the data for other than its intended purpose. The U.S. Army Corps of Engineers does not accept responsibility for changes in the hydrographic conditions when developed after the date of the survey. The user is advised that the information is not to be used for navigation purposes. The user is advised that the information is not to be used for navigation purposes. The user is advised that the information is not to be used for navigation purposes.

|  |                       |                                      |             |
|--|-----------------------|--------------------------------------|-------------|
| U.S. ARMY CORPS OF ENGINEERS<br>NEW ORLEANS DISTRICT |                       |                                      |             |
| Submitted:   | Surveyed By:          | Plotted By:                          | Checked By: |
| Recommended:   | SPJS                  | BD                                   | AOJH        |
| Approved:  | Chief, Survey Section | Chief, Waterways Maintenance Section |             |

**CALCASIEU SHIP CHANNEL  
 LOWER SHEET 11  
 CR\_11\_LWR\_20230725\_CS  
 25 July 2023**

**Sheet Reference Number  
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