

**US Army Corps of Engineers District: CEMVN**

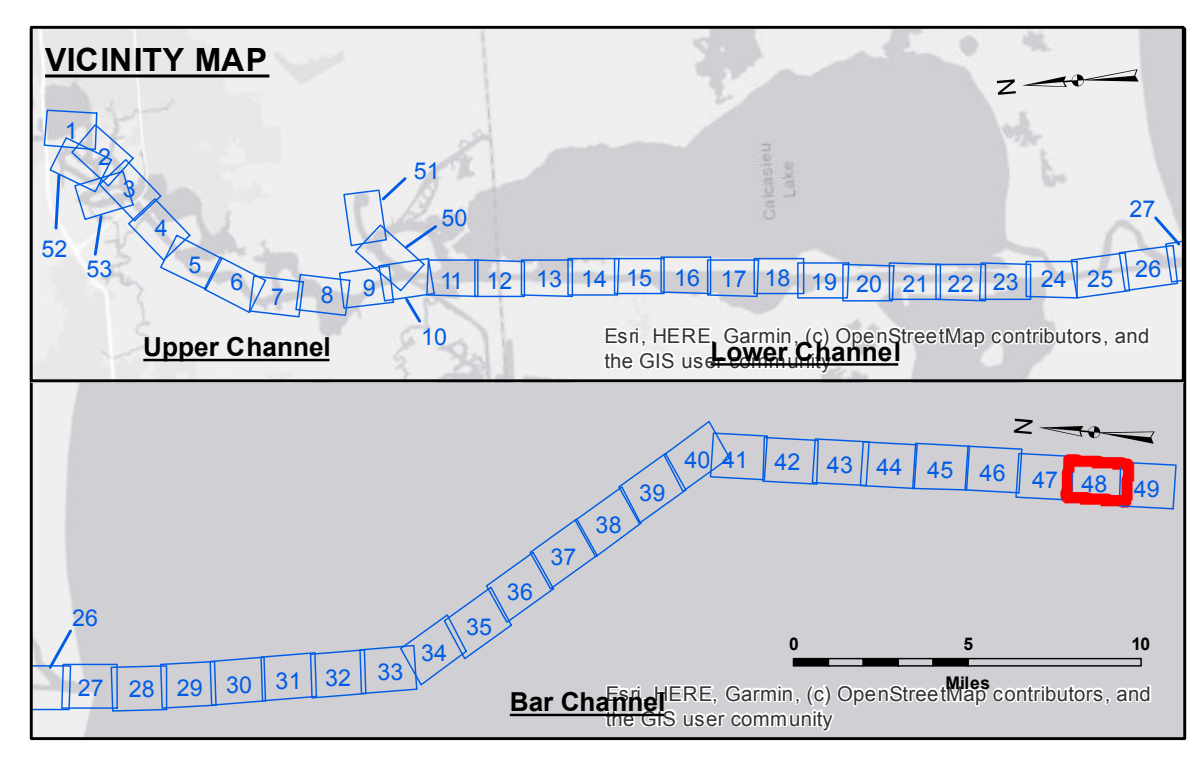
**NOTES:**

1. Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. 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.

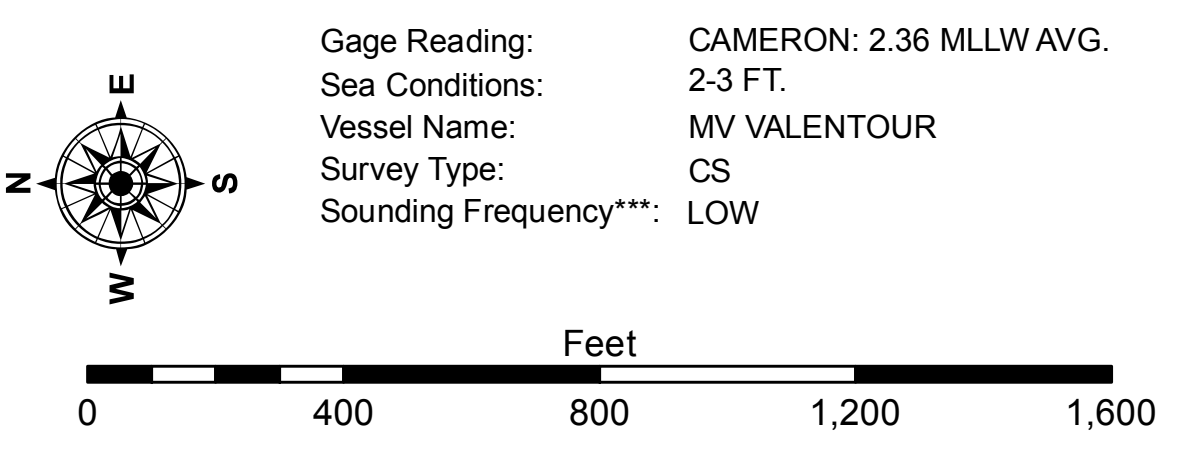
2. Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, sedimentation, and changes in bathymetry. The US Army Corps of Engineers accepts no responsibility for changes in the hydrographical conditions when developed after the date of the information depicted on the map/representation of the results of a survey. The information depicted on the map/representation of the results of a survey is not intended to represent the general condition existing at that time.

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

**CALCASIEU SHIP CHANNEL**  
**BAR SHEET 48**  
**CR\_48\_BAR\_20200731\_CS**  
**31 July 2020**



| 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 |



**NOTES:**

1. 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.

2. 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

3. Distances on the Calcasieu River are shown at 1 mile intervals.

4. The location of navigation aids are based on and provided by the U.S. Coast Guard and USACE survey crews.

5. 2015 Aerial Photography data source: NAIP

6. Reference is N.O.A.A. Navigation Chart No. 11339.

7. \* Difference between high and low frequency elevations where greater than 1.0'.

8. \*\* Shoalest Sounding per Quarter per Reach.

9. \*\*\* 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.

**Sheet Reference Number**  
**48 of 53**

Revision Number:  
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