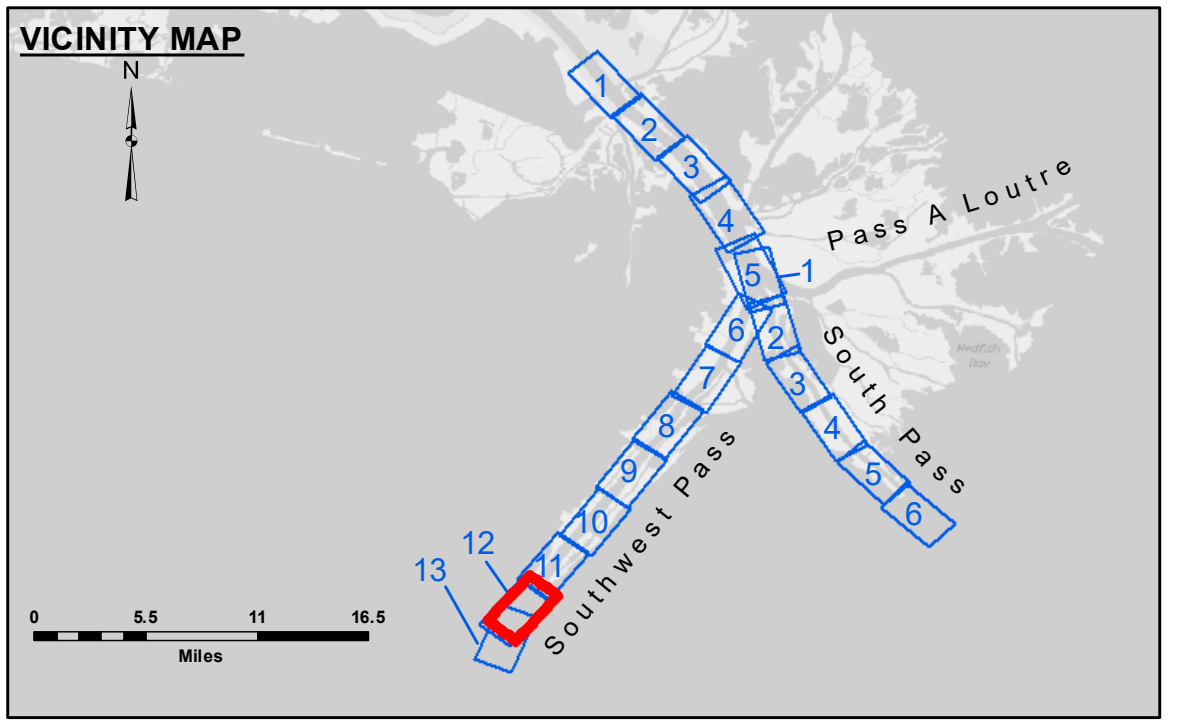


DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any particular purpose, expressed or implied, concerning the accuracy, completeness, reliability, usability or availability for any particular purpose of the recipient. The user is responsible for the results of the use of the data. The user shall not be held liable for any damage or injury resulting from the use of the data. The user shall not be held liable for any damage or injury resulting from the use of the data. The user shall not be held liable for any damage or injury resulting from the use of the data.

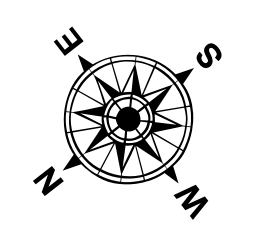
| | | |
|--------------|--------------|----------|
| Submitted: | Surveyed By: | JH & RCC |
| Recommended: | Plotted By: | RSL |
| Approved: | Checked By: | MSK |

**MISSISSIPPI RIVER - B.R. TO GULF
SOUTHWEST PASS - SHEET 12
SW_12_SWP_20231121_CS
21 November 2023**

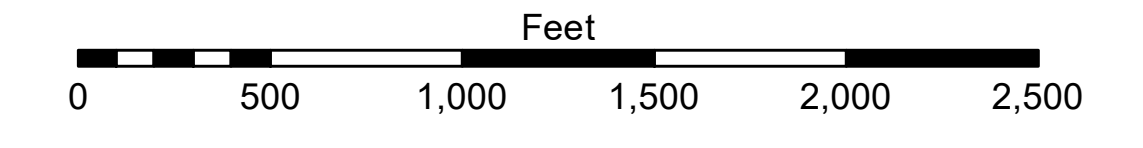


LEGEND

| | | | |
|--------------------------------|-------------------|-----------------------|----------------|
| Federal Navigation Channel | Cable Area | Borrow Area | -10' and above |
| Federal Navigation Center Line | Placement Area | Shoalest Sounding** | -10' to -20' |
| As-built Pipeline/Cable | Anchorage Area | Beacon, General | -20' to -30' |
| Unconfirmed Pipeline/Cable | Obstruction Point | Red Navigation Buoy | -30' to -40' |
| Project Depth Contour | Wrecks-Submerged | Green Navigation Buoy | -40' to -45' |
| | | | -45' to -50' |
| | | | -50' to -55' |
| | | | -55' and below |



Gage Reading: 1.3 MLLW @ MILE 17.9 @ 0910
 Sea Conditions: CHOPPY
 Vessel Name: TOBIN
 Survey Type: CONDITION, SB
 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 (MLLW, 12-16). Datum Relationships for gage 01670 as of March 2020: 0.0' NAVD88, 2009.55 = 0.79' MLLW = 4.29' MLG
 Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard.
 2022 Aerial Photography data source: Optimal GEO (1998 DOQQ in green)
 Reference is N.O.A. Navigation Chart No. 11361.
 ** 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 (24 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
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