

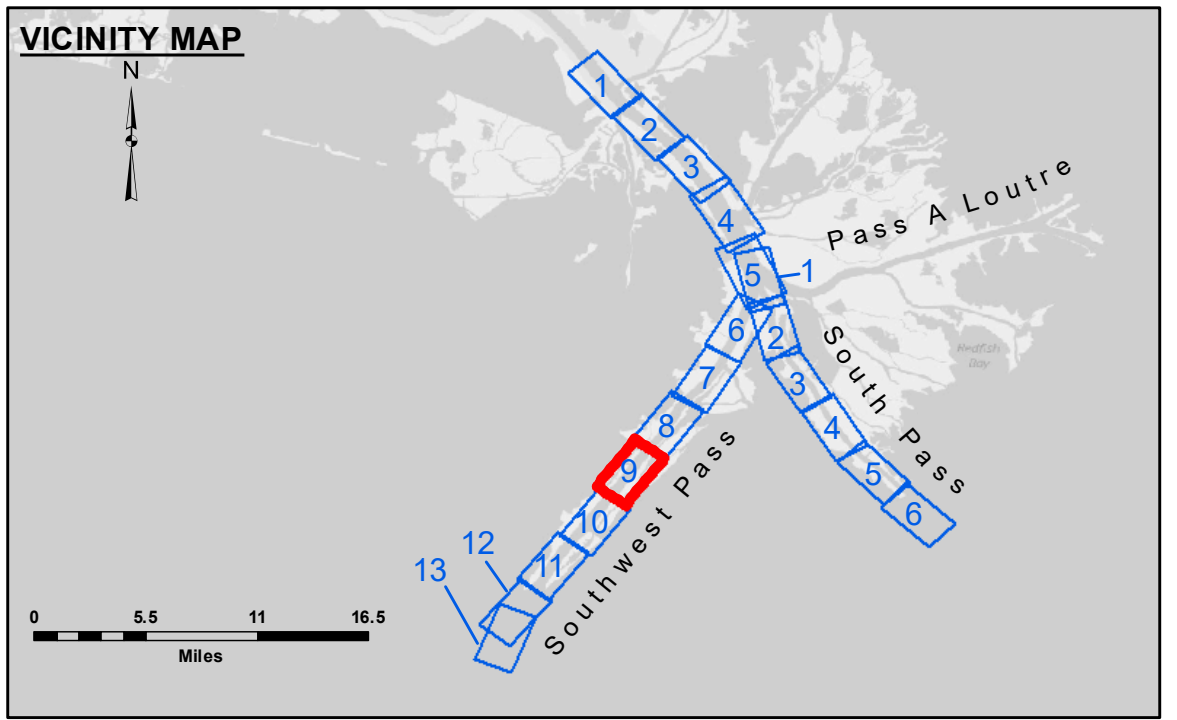
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|              |                      |
|--------------|----------------------|
| Submitted:   | Chart Survey Section |
| Recommended: | RSL                  |
| Approved:    | MSK                  |

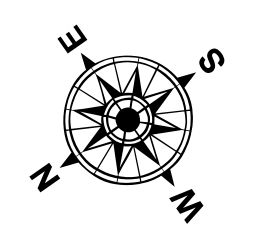
U.S. ARMY CORPS OF ENGINEERS  
 NEW ORLEANS DISTRICT

**MISSISSIPPI RIVER - B.R. TO GULF  
 SOUTHWEST PASS - SHEET 9  
 SW\_09\_SWP\_20190115\_CS  
 15 January 2019**

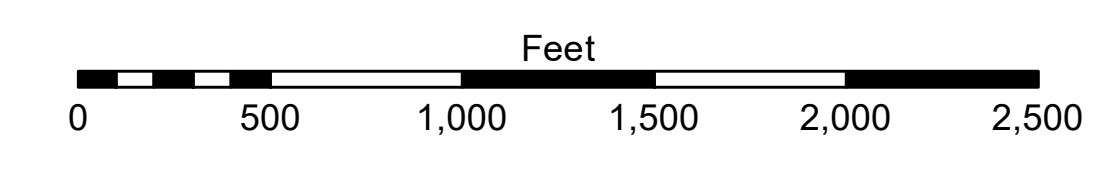
**Sheet Reference Number  
 9 of 13**



| 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          | ★ Beacon, General       |
|                                  | ◆ Red Navigation Buoy   |
|                                  | ◆ Green Navigation Buoy |
|                                  | ■ Borrow Area           |
|                                  | ● Shoalest Sounding**   |
|                                  | ■ -10' and above        |
|                                  | ■ -10' to -20'          |
|                                  | ■ -20' to -30'          |
|                                  | ■ -30' to -40'          |
|                                  | ■ -40' to -45'          |
|                                  | ■ -45' to -48.5'        |
|                                  | ■ -48.5' to -55'        |
|                                  | ■ -55' and below        |



Gage Reading: 1.6 MLLW @ LIGHT 14 @ 1020  
 Sea Conditions: CHOPPY/FLUFF  
 Vessel Name: BLANCHARD  
 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, 07-11). Datum Relationships for gage 01625 as of July 2015: 0.0' NAVD83 = 0.39' MLLW = 3.89' 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.  
 2016 Aerial Photography data source: Precision Aerial Reconnaissance, LLC (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.