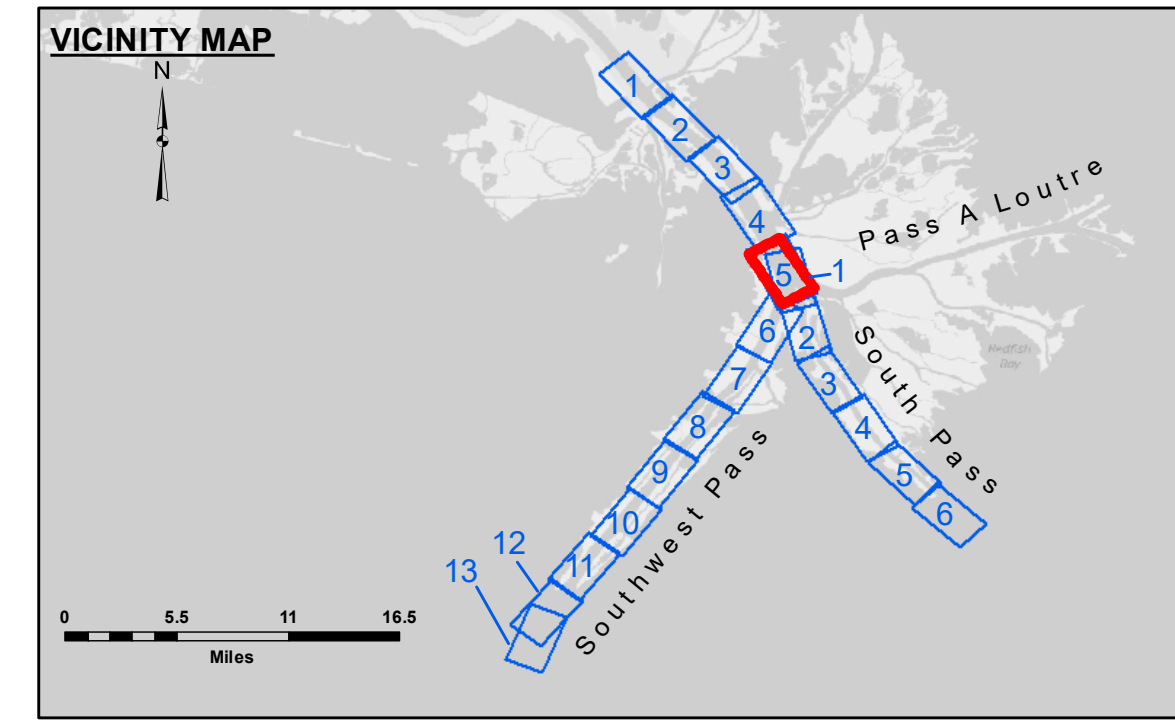


NOTES:
 The data represented on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers for the purpose of determining the depth of the channel and the location of navigation aids. The user is responsible for the accuracy of the data and its use. The Corps of Engineers does not accept any liability for the use of this data for purposes other than those intended. The information depicted on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers for the purpose of determining the depth of the channel and the location of navigation aids. The user is responsible for the accuracy of the data and its use. The Corps of Engineers does not accept any liability for the use of this data for purposes other than those intended.

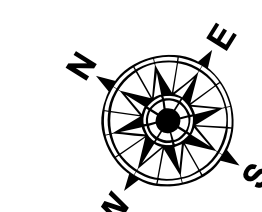
Submitted:	Surveyed By: HNP & TDG	Plotted By: LLB	Checked By: MSK
Recommended:	Chief, Survey Section	Chief, Waterways Maintenance Section	

MISSISSIPPI RIVER - B.R. TO GULF
SOUTHWEST PASS - SHEET 5
SW_05_SWP_20180713_CS
 13 July 2018

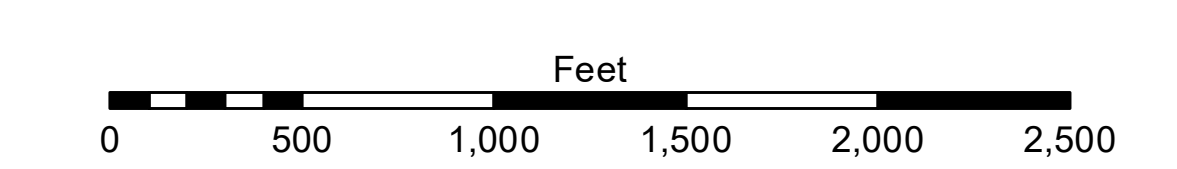
Sheet Reference Number
5 of 13



LEGEND		
--- Federal Navigation Channel	○ Cable Area	■ Borrow Area
— Federal Navigation Center Line	■ Placement Area	● Shoalest Sounding**
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy
		■ -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: 1.7 MLLW @ PILOT TOWN @ 1010
 Sea Conditions: CALM
 Vessel Name: JOHN BOPP
 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 01525 as of July 2015: 0.0' NAVD83 = -0.3' MLLW = 3.20' 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.