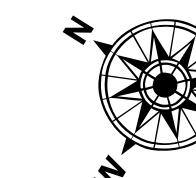


LEGEND	
— Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	■ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	★ Beacon, General
— Project Depth Contour	✖ Obstruction Point
	➤ Wrecks-Submerged
	■ Borrow Area
	● Shoalest Sounding**
	● Red Navigation Buoy
	◆ Green Navigation Buoy

Gage Reading: 1.9 MLLW @ PILOT TOWN @ 1000
 Sea Conditions: CHOPPY SEAS
 Vessel Name: JOHN BOPP
 Survey Type: CONDITION, SB
 Sounding Frequency***: LOW



Feet
0 500 1,000 1,500 2,000 2,500

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' NAVD88 = -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.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.

US Army Corps of Engineers District: CEMVN

DISCLAIMER
 Access Constraints: The United States Government furnishes this data and the recipient agrees to use them with the express understanding that the U.S. Government makes no warranties, expressed or implied, concerning the general accuracy of such information, its reliability or suitability for a particular purpose. The United States shall be under no obligation to furnish further information or data to the recipient or to make any representation concerning the use of such information or data. The recipient shall be responsible for the results of any analysis made by it based on this data. The recipient shall not be relieved of its responsibility to determine the suitability of the data for its intended purpose.
 Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including burial, shifts in dredging operations, changes in the hydrographical conditions which develop after the date of publication. The data is intended for U.S. Army Corps of Engineers use. The information depicted on the map represents the results of a survey conducted on the date indicated and can only be considered valid within the general conditions existing at the time.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	Surveyed By: JTB & TDG
Submitted: _____	Protected By: RSL
Recommended: One Survey Section	Charged By: NSK
Approved: One Waterways Maintenance Section	_____

**MISSISSIPPI RIVER - B.R. TO GULF
SOUTHWEST PASS - SHEET 5
SW_05_SWP_20180313_CS**
13 March 2018

Sheet Reference Number
5 of 13

Revision Number: 312-20160811