



LEGEND			
--- Federal Navigation Channel	○ Cable Area	■ Shoaling Area	■ 0' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ 0' to -5'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -5' to -10'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	★ Red Navigation Buoy	■ -10' to -20'
— Project Depth Contour	⚓ Wrecks-Submerged	★ Green Navigation Buoy	■ -20' to -30'
			■ -30' to -35'
			■ -35' to -40'
			■ -40' to 45'
			■ -45' to 50'
			■ -50' and below

LWRP: 0.2
Gage Reading: E:0.8 VEN:0.8 USED: 0.8 NAVD88
Sea Conditions: CALM
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 Low Water Reference Plane 2007 (NAVD).
 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 and USACE crew.
 2010 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.
 Reference is N.O.A.A. Navigation Chart No. 11370.
 *** 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 (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.



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 accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. The user is responsible for the results. The application of the data for other than its intended purpose is at the user's risk. Data Corrections: Hydrographic survey data is subject to change rapidly due to several factors including, but not limited to, changing bathymetry, sedimentation, and other factors. The recipient may not transfer these data to others without obtaining the permission of the U.S. Army Corps of Engineers. The recipient may not transfer the information depicted on this map to others without the permission of the U.S. Army Corps of Engineers. The recipient may not transfer the information depicted on this map to others without the permission of the U.S. Army Corps of Engineers. The recipient may not transfer the information depicted on this map to others without the permission of the U.S. Army Corps of Engineers. The recipient may not transfer the information depicted on this map to others without the permission of the U.S. Army Corps of Engineers.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: JH & RCC
Recommended: Chief, Survey Section	Plotted By: TSS
Approved: Chief, Waterways Maintenance Section	Checked By: MSK

**MISSISSIPPI RIVER - B. R. TO GULF
 BOLIVAR POINT
 MD_93_BVP_20221207_CS
 07 December 2022**

**Sheet
 Reference
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