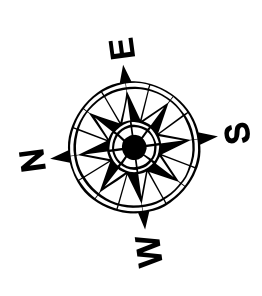


LEGEND			
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -8' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -8' to -10'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -10' to -12'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -12' to -16'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	■ -16' to -19'
			■ -19' and below



Gage Reading: VRS RTK NTRIP: 0.55 MLLW AVG.
 Sea Conditions: CALM
 Vessel Name: OB-169
 Survey Type: CONDITION
 Sounding Frequency***: LOW

Vertical Datum:
 Soundings are shown in feet and indicate depths below Mean Lower Low Water Datum (MLLW).
 Datum Relationships for 78320 as of September 2022:
 0.0' NAVD88 (2009.55) = 0.40' MLLW = 1.40' MLG

Distances on the Houma Nav. Canal are shown at 1 mile intervals.

The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE survey crews.

2019 Aerial Photography data source: NAIP (1998 DOQQ Imagery in green).

Reference is N.O.A.A. Navigation Chart No. 11355.

** 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.



Access/Use: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were prepared, or to imply or substantiate the accuracy, completeness, or availability of any information for any particular purpose of the recipient. The user is responsible for the results of any use of the data. The application of the data for other than intended purposes is at the user's risk.

Distribution Liability: The data represents the results of data collection for a specific US Army Corps of Engineers project and is only valid for its intended use, context, time and accuracy specifications. The user is responsible for the results of any use of the data. The application of the data for other than intended purposes is at the user's risk.

Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including, but not limited to, changing hydrographic conditions, changes in channel conditions, and changes in the hydrographic conditions which develop after the date of the survey. The user is responsible for the results of any use of the data. The application of the data for other than intended purposes is at the user's risk.

Submitted:	Surveyed By: SP/SK
Recommended:	Plotted By: BD
Approved:	Chief, Survey Section
	Chief, Waterways Maintenance Section
	Checked By: AO/JH

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

**HOUMA NAVIGATION CANAL
 LOWER CHANNEL
 HN_04_LWR_20230124_CS
 24 January 2023**

Sheet Reference Number
 4 of 19

Revision Number:
 4.2-202 (04/20)