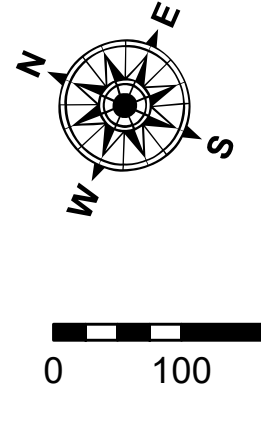


LEGEND

--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -11' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	□ -11' and below
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General	
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	



Gage Reading: HOUMA STAFF: 1.39 MLLW
 Sea Conditions: SMOOTH
 Vessel Name: OB189
 Survey Type: CS
 Sounding Frequency***: HIGH

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 Datum (MLLW). Datum Relationships for 76320 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.



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 any purpose other than that for which they were prepared, and that the user is responsible for the results obtained. The user is responsible for the results obtained. The user is responsible for the results obtained. The user is responsible for the results obtained.
 Distribution Liability: The data represents the results of data collection for a specific US Army Corps of Engineers project. It is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results obtained. The user is responsible for the results obtained. The user is responsible for the results obtained.
 Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, shoaling, and other factors. The user is responsible for the results obtained. The user is responsible for the results obtained. The user is responsible for the results obtained.
 The information depicted on this map represents the results of a survey conducted on the date indicated. It is not to be used to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Submitted:	Surveyed By: DJS/SR
Recommended:	Plotted By: AO
Approved:	Checked By: AC

HOUMA NAVIGATION CANAL VICINITY
BAYOU LECARPE
HN_21_LEC_20190910_CS_MLLW
10 September 2019

Sheet Reference Number
2 of 3

Revision Number:
 4.2-202 (04/20)