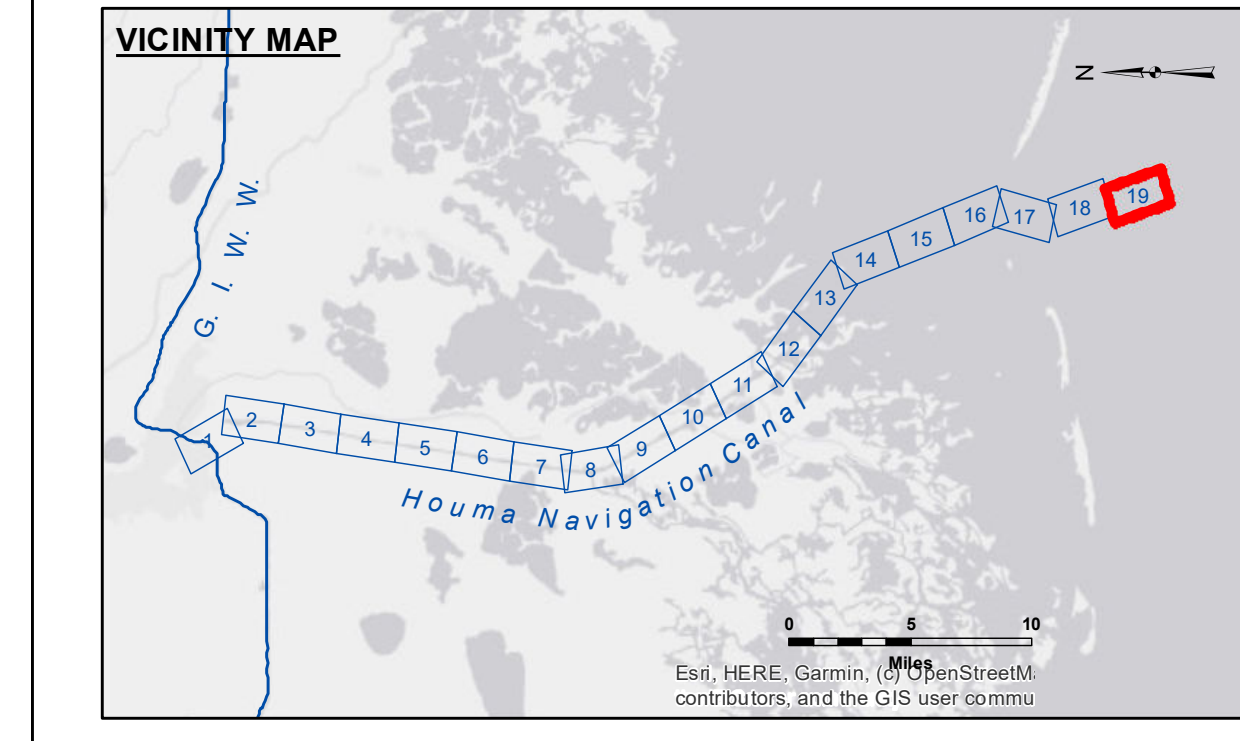


**DISCLAIMER:** The user is responsible for the results of data collection, processing, and use of the data. The user is responsible for the results of the data collection, processing, and use of the data. The user is responsible for the results of the data collection, processing, and use of the data. The user is responsible for the results of the data collection, processing, and use of the data.

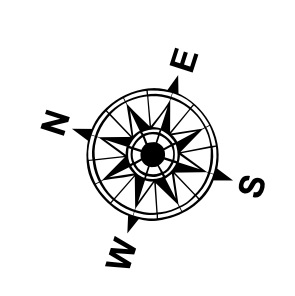
Checked By: JAH	Plotted By: BD	Recommended By: JAH	Chief, Waterways Maintenance Section
Drawn By: SP-PM	Reviewed By: JAH	Reviewed By: JAH	Chief, Waterways Maintenance Section
Approved: JAH	Approved: JAH	Approved: JAH	Chief, Waterways Maintenance Section

**HOUMA NAVIGATION CANAL  
BAR CHANNEL  
HN\_19\_BAR\_20231207\_CS  
07 December 2023**

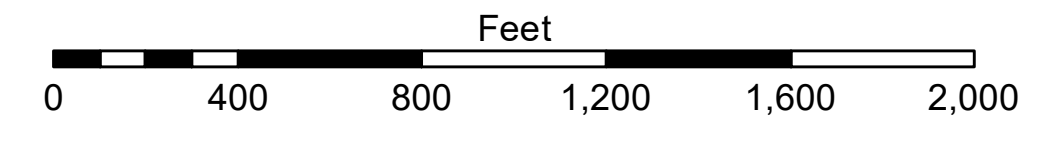
**Sheet Reference Number  
19 of 19**



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



Gage Reading: TIMB\_ISLAND VRN: 1.40 MLLW AVG.  
 Sea Conditions: CHOPPY  
 Vessel Name: OB-169  
 Survey Type: CONDITION  
 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 Datum (MLLW). Datum Relationships for 88450 as of September 2022: 0.0' NAVD88 (OPUS 2019) = 0.40' MLLW (2012-2016) = 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.  
 2022 Aerial Photography data source: Optimal GEO, Inc.  
 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.