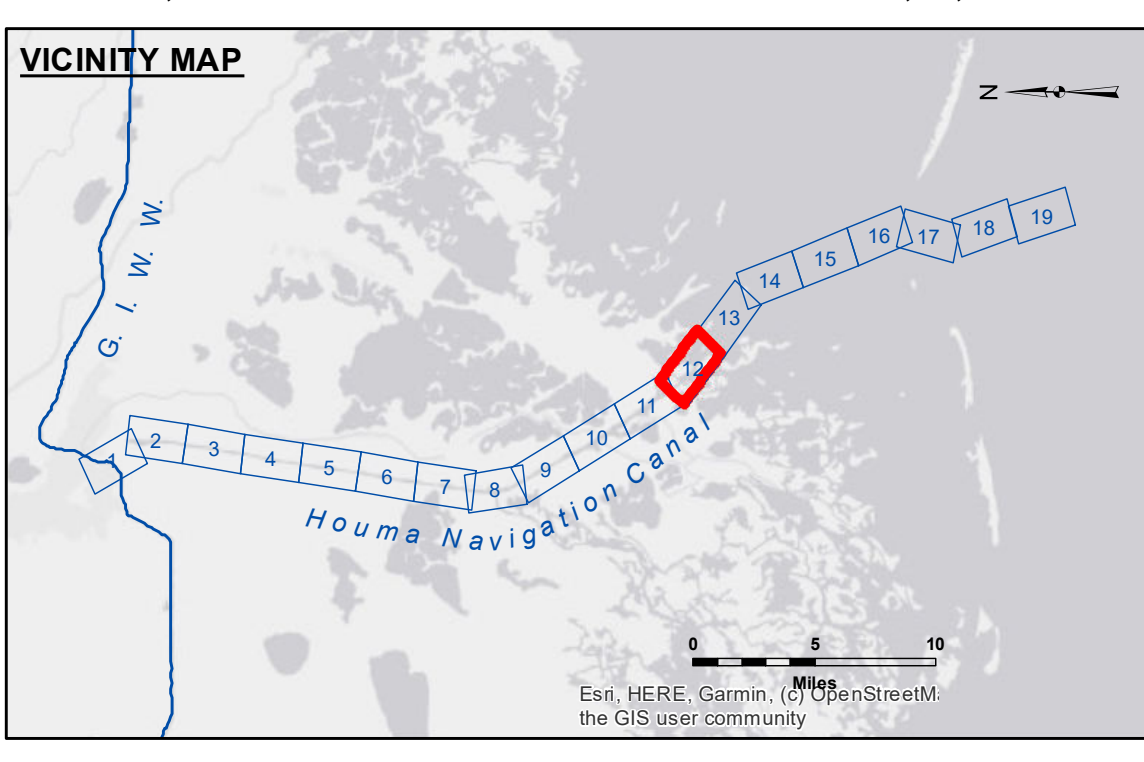


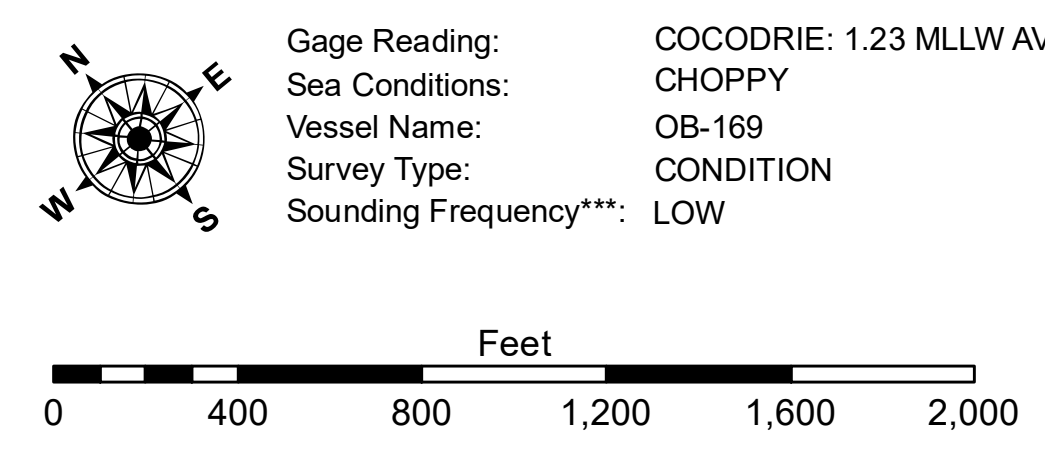
Sheet 11-1321
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LEGEND

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|----------------------------------|---------------------|---------------------------|----------------|
| --- Federal Navigation Channel | ○ Cable Area | 3 Fluff Thickness (feet)* | -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 |



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 76305 as of September 2022:
 0.0' NAVD88 (OPUS 2019) = 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.
 2022 Aerial Photography data source: Optimal GEO, Inc. (1998 DOQQ Imagery in green)
 Reference is N.O.A. Navigation Chart No. 11355.
 * Difference between high and low frequency elevations where greater than 1.0'.
 ** 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, or implied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. The user is responsible for the results obtained from the use of these data. The United States Government makes no liability whatsoever to any person by reason of any use made of these data. These data, including the Government's responsibility for their accuracy, are not to be used for any purpose other than that for which they were prepared. The recipient may not transfer these data to others without the written permission of the District Engineer. The information depicted on this map represents the results of a survey conducted by the United States Army Corps of Engineers and is not to be used for any purpose other than that for which it was prepared. Product maintainers should not rely solely on this information.

| | |
|--|---|
| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
| Surveyed By: SPSR | Plotted By: JH |
| Submittal: | Checked By: JH |
| Recommended: Chief, Survey Section | Approved: Chief, Waterways Maintenance Section |

**HOUMA NAVIGATION CANAL
 BAY CHANNEL
 HN_12_BAY_20230404_CS
 04 April 2023**

**Sheet Reference Number
 12 of 19**

Revision Number:
4.2-20230420