



LEGEND			
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -12' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -12' to -15'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -15' to -18'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -18' and below
— Project Depth Contour	✈ Wrecks-Submerged	◆ Green Navigation Buoy	

Gage Reading: HOUMA: 2.08 MLG
 Sea Conditions: CALM
 Vessel Name: OB-189
 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 Low Gulf Datum (MLG).
 Datum Relationships for 76320 as of August 2014:
 0.0' NAVD88 (2009.55) = 2.42' 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.
 2010 Aerial Photography data source: NAIP
 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 bathymeter settings.



DISCLAIMER:
 The information depicted on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. The data represents the results of data collection and processing for a specific US Army Corps of Engineers project and is only valid for its intended use. Content, time and accuracy are not guaranteed for any other use. The user is responsible for the results of any use of this data for other than its intended purpose.
 Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing hydrological conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. The data represents the results of data collection and processing for a specific US Army Corps of Engineers project and is only valid for its intended use. Content, time and accuracy are not guaranteed for any other use. The user is responsible for the results of any use of this data for other than its intended purpose.
 Distribution Liability: The data represents the results of data collection and processing for a specific US Army Corps of Engineers project and is only valid for its intended use. Content, time and accuracy are not guaranteed for any other use. The user is responsible for the results of any use of this data for other than its intended purpose.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT			
Submitted:	Surveyed By: SP,DR	Planned By: BD	Checked By: MS
Recommended:	Chart Survey Section		
Approved:	Chart, Waterways Maintenance Section		

**HOUMA NAVIGATION CANAL
 LOWER CHANNEL
 HN_01_LWR_20171212_CS
 12 December 2017**

**Sheet
 Reference
 Number
 1 of 19**