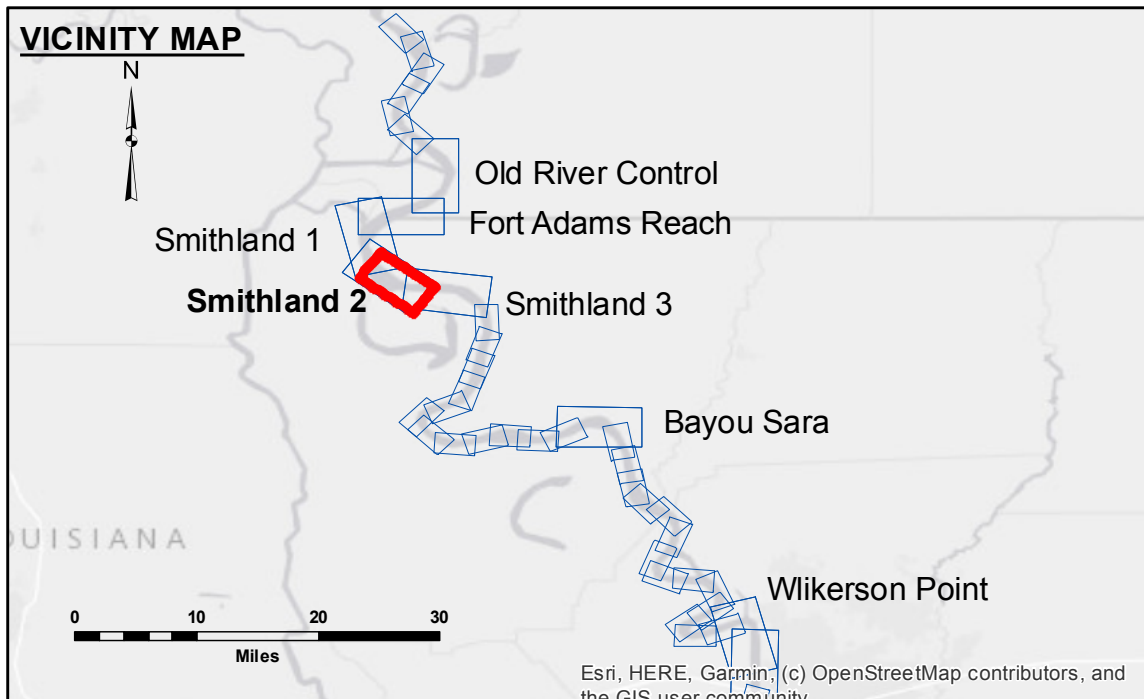


**Accession:** The data represents the results of data collection processing for a specific US Army Corps of Engineers project. This data is not intended for general use and is only valid for the intended use, control, time and accuracy specifications. The user is responsible for the results of any use of this data for any other purpose. **Data Accuracy:** Hydrographic survey data is subject to change due to several factors including but not limited to dredging, sedimentation, and changes in bathymetry. The user is responsible for the results of any use of this data for any other purpose. **Disclaimer:** The information depicted on this map represents the results of a survey conducted on the ground. It is not intended to be used as a substitute for a site visit or other means of determining the general condition existing at that time.

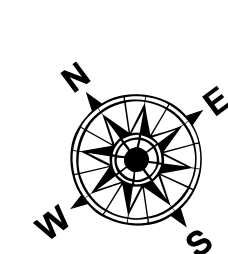
Submitted:	Surveyed By: RYLAND/HOSHMAN
Recommended: Chief Survey Section	Plotted By: BD
Approved: Chief Waterways Maintenance Section	Checked By: AC

U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT

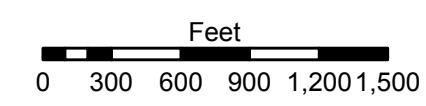
**MISSISSIPPI RIVER - SHALLOW DRAFT  
SMITHLAND - SHEET 2  
MS\_10\_SM2X\_20200721\_CS  
21 July 2020**



LEGEND	
— Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	□ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	⚓ Wrecks-Submerged
■ Shoaling Area	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
■ 0' and above	◆ Green Navigation Buoy
■ 0' to -5'	
■ -5' to -9'	
■ -9' and below	



LWRP: 13.0  
Gage Reading: RR:34.0 BR:17.4 USED:32.40 NAVD  
Sea Conditions: CALM  
Vessel Name: OB-189  
Survey Type: CONDITION  
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 Low Water Reference Plane 2007 (NAVD).  
Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.  
The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.  
2015 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.  
Reference is USACE IENC U35LM236.  
\*\* 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.

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