

Access Conditions: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were originally collected, and that the user is responsible for the results of any use of the data for other than its intended purpose. The application of the data for other than its intended purpose may result in injury to life or property. The user shall indemnify and hold the United States Government harmless from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, which may be asserted against or incurred by the United States Government as a result of the use of the data for other than its intended purpose.

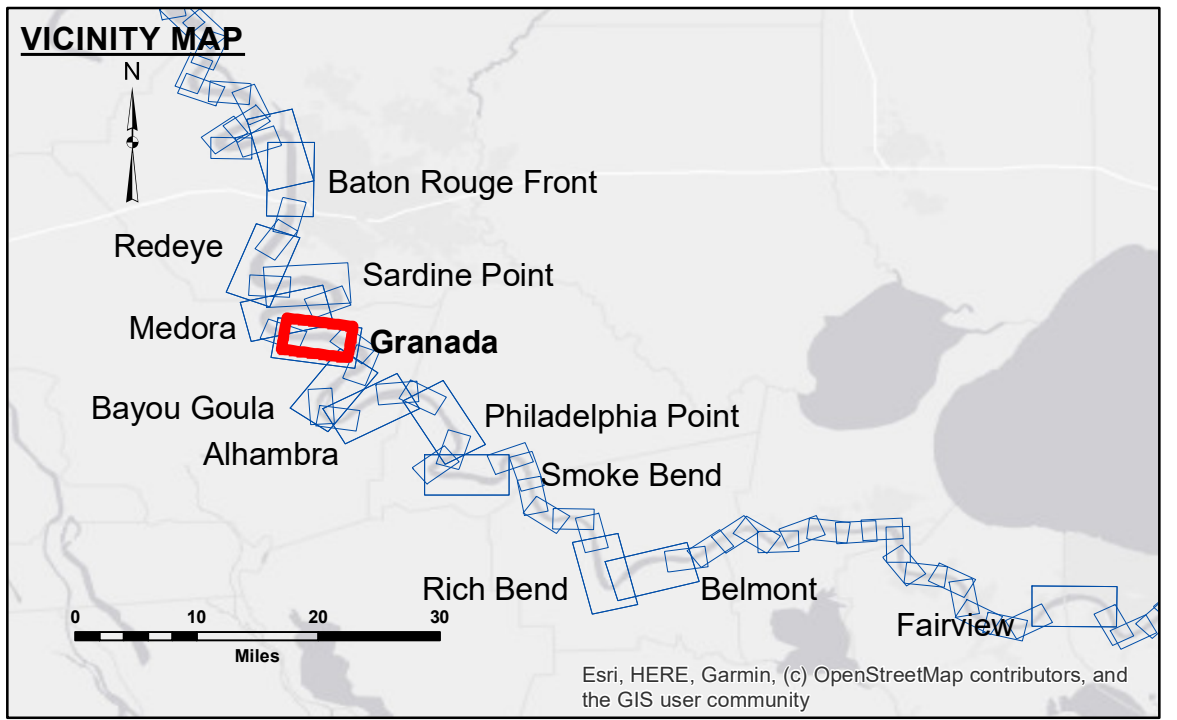
Data: Constant Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing bathymetry, sedimentation, and other factors. The user is responsible for the accuracy of the data used for any purpose. The user shall indemnify and hold the United States Government harmless from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, which may be asserted against or incurred by the United States Government as a result of the use of the data for other than its intended purpose.

Disclaimer: The information depicted on this map represents the results of a survey conducted on or about the date of the survey. The user is responsible for the accuracy of the data used for any purpose. The user shall indemnify and hold the United States Government harmless from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, which may be asserted against or incurred by the United States Government as a result of the use of the data for other than its intended purpose.

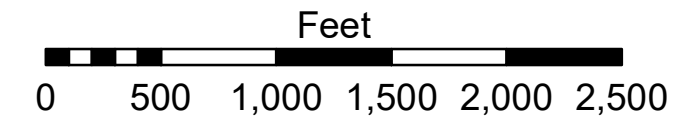
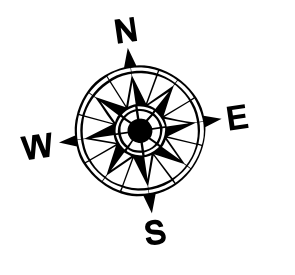
| | |
|--------------|----------------------|
| Submitted: | Surveyed By: DIS/SIS |
| Recommended: | Plotted By: AO |
| Approved: | Checked By: AC |

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

MISSISSIPPI RIVER - B.R. TO GULF
GRANADA CROSSING
MD_10_GRA_20201007_CS
07 October 2020



| LEGEND | | 0' and above |
|----------------------------------|-------------------------|----------------|
| --- Federal Navigation Channel | ○ Cable Area | 0' to -5' |
| — Federal Navigation Center Line | □ Placement Area | -5' to -10' |
| — As-built Pipeline/Cable | □ Anchorage Area | -10' to -20' |
| Unconfirmed Pipeline/Cable | ✕ Obstruction Point | -20' to -30' |
| — Project Depth Contour | ★ Beacon, General | -30' to -35' |
| | ⚓ Wrecks-Submerged | -35' to -40' |
| | □ Borrow Area | -40' to 45' |
| | ● Shoalest Sounding** | -45' and below |
| | ★ Red Navigation Buoy | |
| | ◆ Green Navigation Buoy | |



LWRP: 1.9
Gage Reading: BR:10.1D:6.1 USED:8.3 NAVD
Sea Conditions: SMOOTH
Vessel Name: LAFORCHE
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 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 based 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 N.O.A. Navigation Chart No. 11370.

** 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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