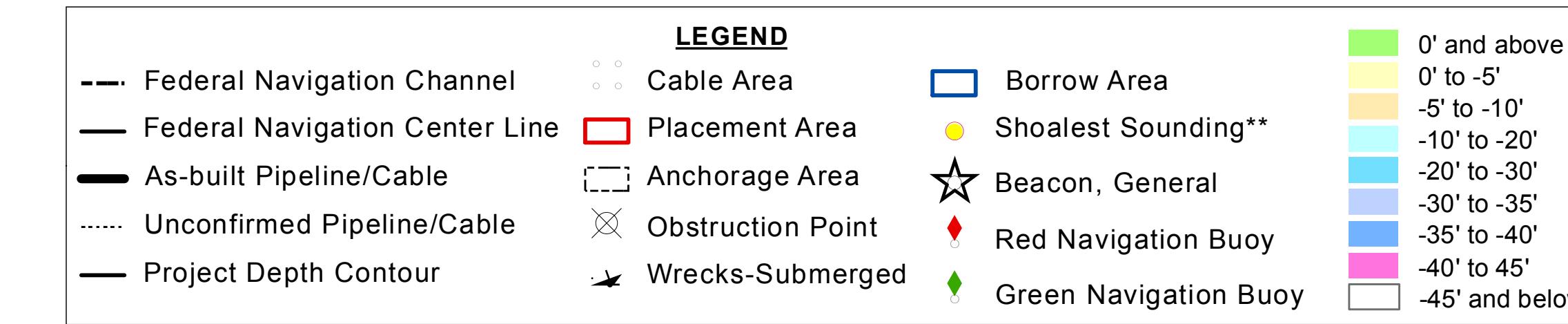
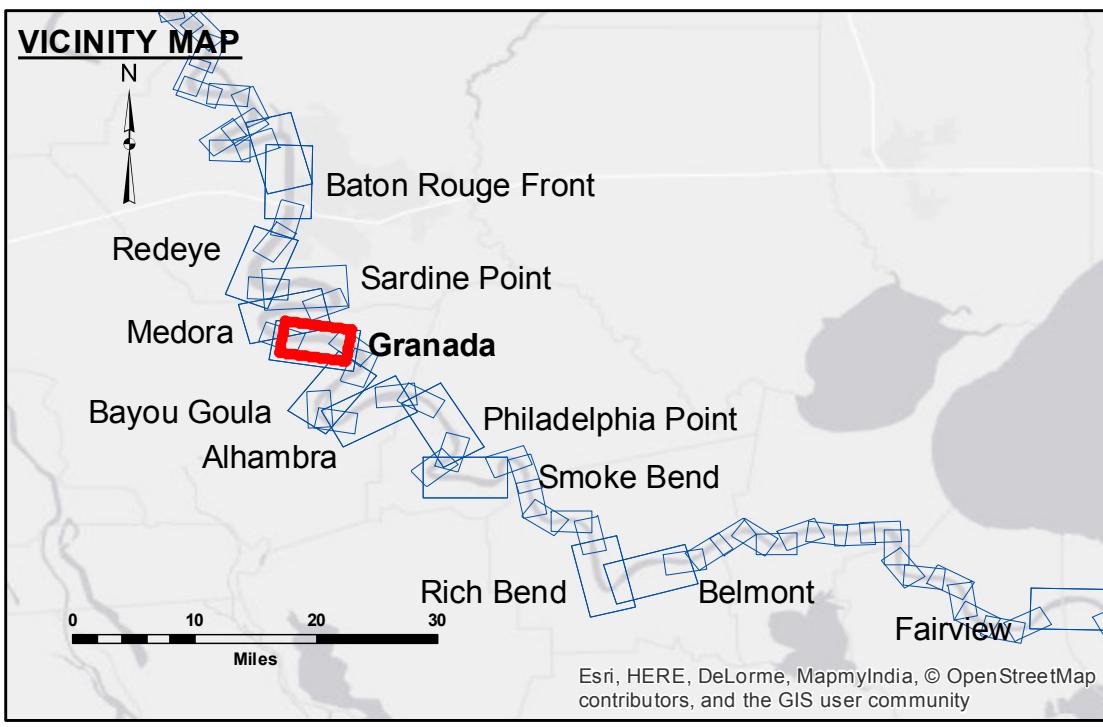


**DISTRIBUTION STATEMENT:** The data represents the results of data collection/processing by a specific US Army Corps of Engineers activity and indicates the general existing conditions. As such, the user is responsible for the results and the application of the data for other than its intended purpose.

**Data Content:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging and filling operations, subsidence and subsiding ground, changes in the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers use only. All rights reserved. The data is copyrighted by the U.S. Army Corps of Engineers. The data is provided "as is" without warranty or guarantee of any kind. The user assumes all risk associated with the use of this data. The user is responsible for the results and the application of the data for other than its intended purpose.

U.S. ARMY CORPS OF ENGINEERS	
NEW ORLEANS DISTRICT	
Surveyed By:	DS_IH
Printed By:	BT
Checked By:	MSK
Submitted:	
Recommended:	One I Survey Section
Approved:	One I Waterways Maintenance Section

**MISSISSIPPI RIVER - B.R. TO GULF**  
**GRANADA RECON**  
**MR\_10\_GRA\_20160322**  
22 March 2016



**LWRP:** 1.9  
**Gage Reading:** BR:38.24 D:27.9 USED:33.5 NGVD  
**Sea Conditions:** LIGHTLY CHOPPY  
**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 (NGVD). 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.

2010 Aerial Photography data source: NAIP, USDA-FSA-AFPO Aerial Photography Field Office.

Reference is N.O.A.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.

**Sheet Reference Number**  
10 of 97