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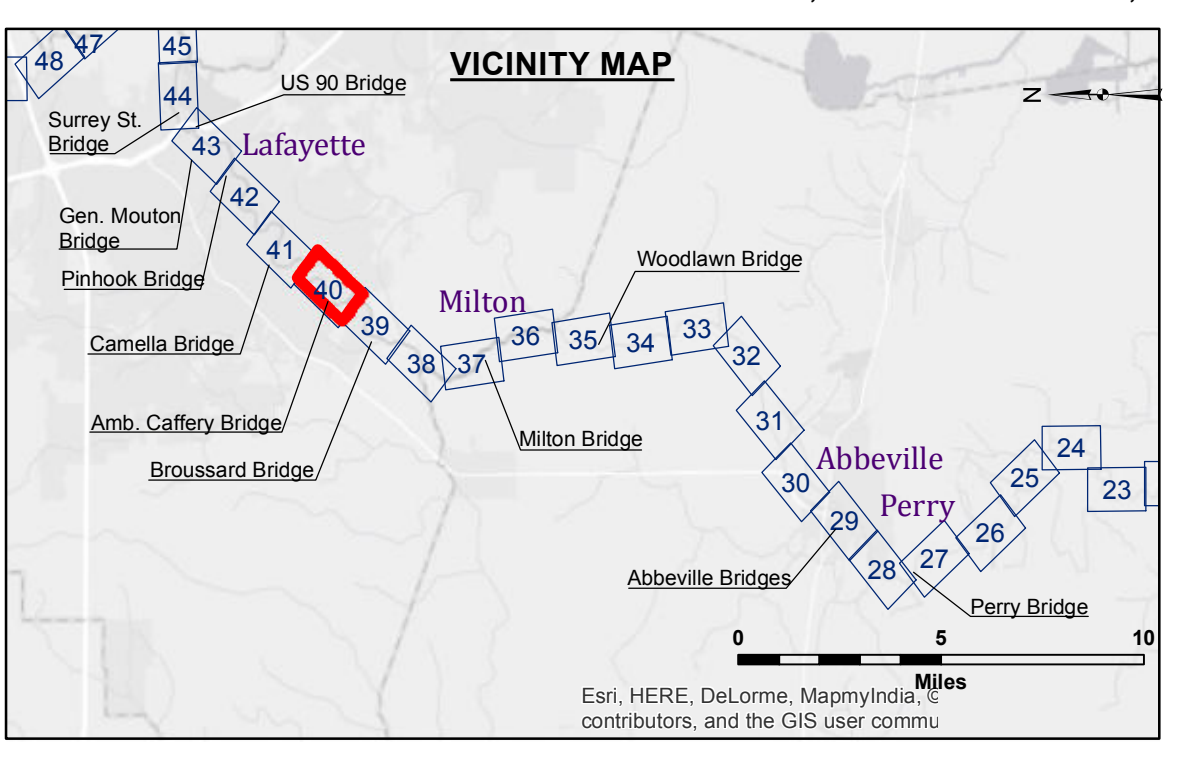
Data Constraints: Hydrographic survey data is subject to change due to several factors including but not limited to changing hydrological conditions which develop after the date of the survey. The user is responsible for the results of any use of these data for other than its intended purpose. The user is not to be held responsible for any damage or injury resulting from the use of these data for other than its intended purpose.

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Disclaimer: The information depicted on this map represents the results of a survey conducted on the map-represented area. It is not to be used for any purpose other than that for which it was prepared. The user is responsible for the results of any use of these data for other than its intended purpose. The user is not to be held responsible for any damage or injury resulting from the use of these data for other than its intended purpose.

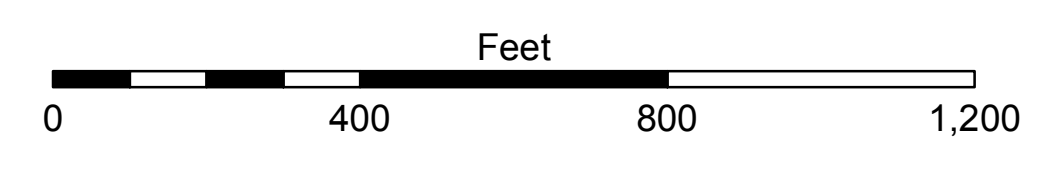
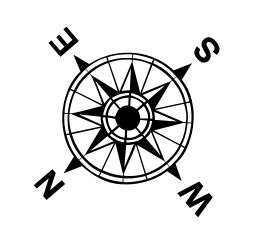
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: DR, SP
Recommended:	Plotted By: ATO
Approved:	Checked By: TAF

**VERMILION RIVER
MILTON TO LAFAYETTE
VM_40_UPR_20150417
17 April 2015**



LEGEND

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



Gage Reading: SUR:8.3 733:6.7 USED:7.0 MLG
 Sea Conditions: CALM
 Vessel Name: M/V 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 Mean Low Gulf Datum (MLG). Datum Relationships for gage 07386940 as of August 2014: 0.0' NAVD83 (OPUS 2014) = 1.94' MLG.
 Distances on the Vermilion River 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. Transparent green imagery from 1998 DOQQ.
 Reference is N.O.A. Navigation Chart No. 11350.
 ** 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
40 of 49**