



**LEGEND**

|                                  |                     |                         |                 |
|----------------------------------|---------------------|-------------------------|-----------------|
| --- Federal Navigation Channel   | ○ Cable Area        | □ Borrow Area           | ■ -8' and above |
| — Federal Navigation Center Line | □ Placement Area    | ● Shoalest Sounding**   | □ -8' 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 |                 |

**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 76720 as of August 2014:  
0.0' NAVD83 (OPUS 2014) = 2.08' 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.

Gage Reading: LELAND BOWMAN E: 2.6 MLG AVG  
Sea Conditions: CALM  
Vessel Name: M/V OB 189  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: HIGH



**DISCLAIMER**  
The information depicted on this map represents the results of a hydrographic survey conducted by the U.S. Army Corps of Engineers. The user is responsible for the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the information. The user is responsible for the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the information. The user is responsible for the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the information. The user is responsible for the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the information.

U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT

|   |                        |
|---|------------------------|
| Submitted:  | Surveyed By:<br>DR, SP |
| Recommended:<br>Chief, Survey Section             | Plotted By:<br>AIO     |
| Approved:<br>Chief, Waterways Maintenance Section | Checked By:<br>TAF     |

**VERMILION RIVER  
VERMILION BAY  
VM\_13\_BAY\_20150424  
24 April 2015**

**Sheet Reference Number  
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