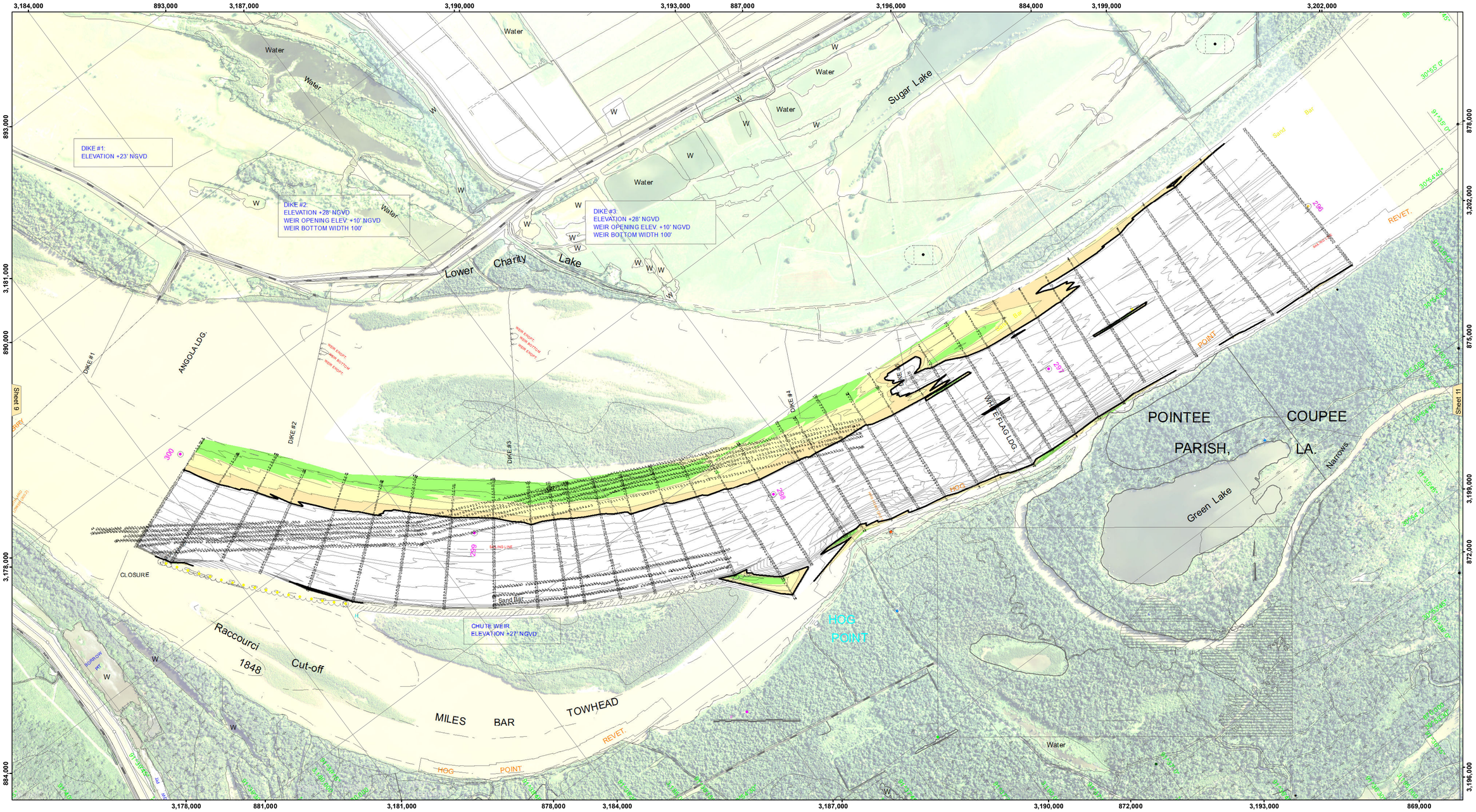


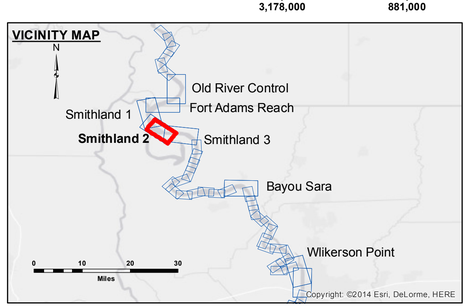


**LEGEND**

- Federal Navigation Channel
- Federal Navigation Center Line
- As-built Pipeline/Cable
- Unconfirmed Pipeline/Cable
- Project Depth Contour
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy
- 0' and above
- 0' to -5'
- -5' to -9'
- -9' and below

| | |
|---|---|
| LWRP: | 13.1 |
| Gage Reading: | RRL: 34.89 BR: 19.41 USED: 34.3 NGVD |
| Sea Conditions: | 1'- 2' |
| Vessel Name: | OB189 |
| Survey Type: | CONDITION |
| Sounding Frequency***: | HIGH |

Feet
0 300 600 900 1,200 1,500

**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-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.

US Army Corps of Engineers
District: CEMVN

DISCLAIMER
Access Constraints: The United States Government furnishes these data and the US Coast Guard assumes no liability except to the extent that contracts with the express provisions to the contrary may exist. Unless otherwise expressed, or implied concerning the accuracy, completeness, reliability, or suitability of these data, or any other information and the data furnished. The United States shall be neither liable nor responsible for any loss or damage suffered under no liability whatsoever to any person by reason of any use of these data or any other information furnished. By the recipient fully agrees not to represent these data to anyone as other than the best available data at the time of distribution and that these data to others without also transferring this Disclaimer.

The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

Distribution Liability: The data represents the results of data collected by the U.S. Army Corps of Engineers during a specific activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy. The U. S. Army Corps of Engineers accepts no responsibility for any of any of the application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change due to natural and man-induced events including but not limited to activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the data that occur after the date of survey and after the date of publication. This data is intended by U. S. Army Corps of Engineers' intended use. Present reserves shoaling only liability upon it.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

| | |
|---|---|
| Submitted: | |
| Recommended: Chief, Survey Section | |
| Approved: Chief, Waterways Maintenance Section | |
| Surveyed By: | SR,SW |
| Plotted By: | MDS |
| Checked By: | MK |

# MISSISSIPPI RIVER - SHALLOW DRAFT
## SMITHLAND - SHEET 2
## MS_10_SM2_20150107
## 07 January 2015

Sheet Reference Number
10 of 39

Revison Number:
3.6.1-20140429