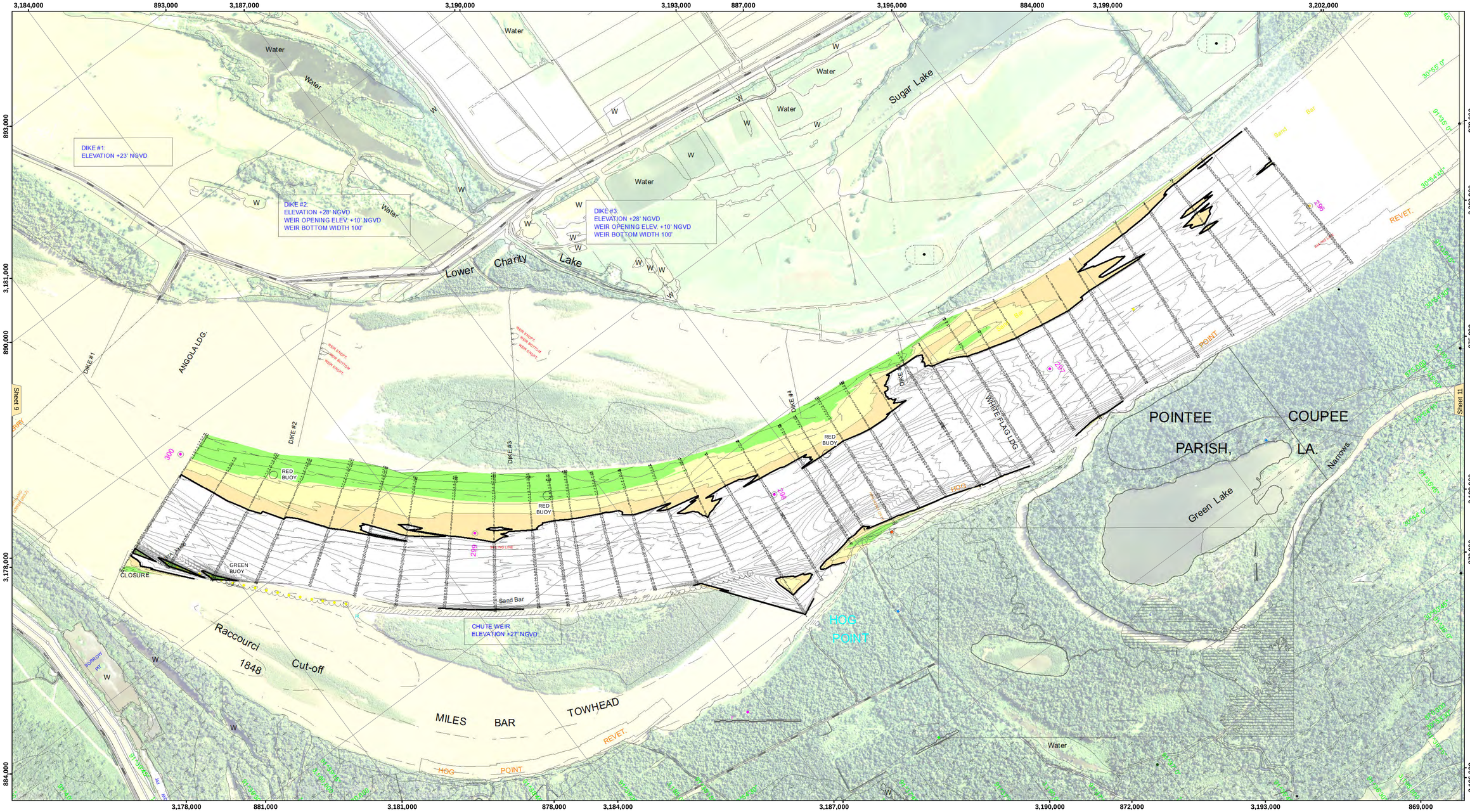

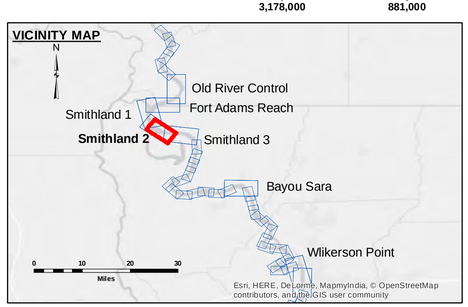

LEGEND

- 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:	RR:43.7 BR:27.6 USED:43.10 NGVD
Sea Conditions:	CALM
Vessel Name:	M/V OB 189
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 as expressed, or implied concerning the accuracy, completeness, reliability, usefulness or timeliness of the furnished navigation information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. Neither the United States nor any agent thereof warrants the recipient fully agrees not to represent these data to anyone as other than the most current navigation information available 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 as approximate general conditions existing at that time.

Distribution Liability: The data represents the results of data collected by the U.S. Army Corps of Engineers activity and indicates the general existing conditions. As such it is only valid for its intended use, content, time and accuracy of the data. Any modification or alteration of the data or 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-made influences including shoaling 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 the survey is made publication. This data is intended for U. S. Army Corps of Engineers internal use. Private business should seek very liability upon it.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

Submitted:	Surveyed By: DR, PS	
Recommended: Chief, Survey Section	Plotted By: BTD	
Approved: Chief, Waterways Maintenance Section	Checked By: HJ	

MISSISSIPPI RIVER - SHALLOW DRAFT
SMITHLAND - SHEET 2
MS_10_SM2_20150519
19 May 2015

Sheet Reference Number
10 of 39

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