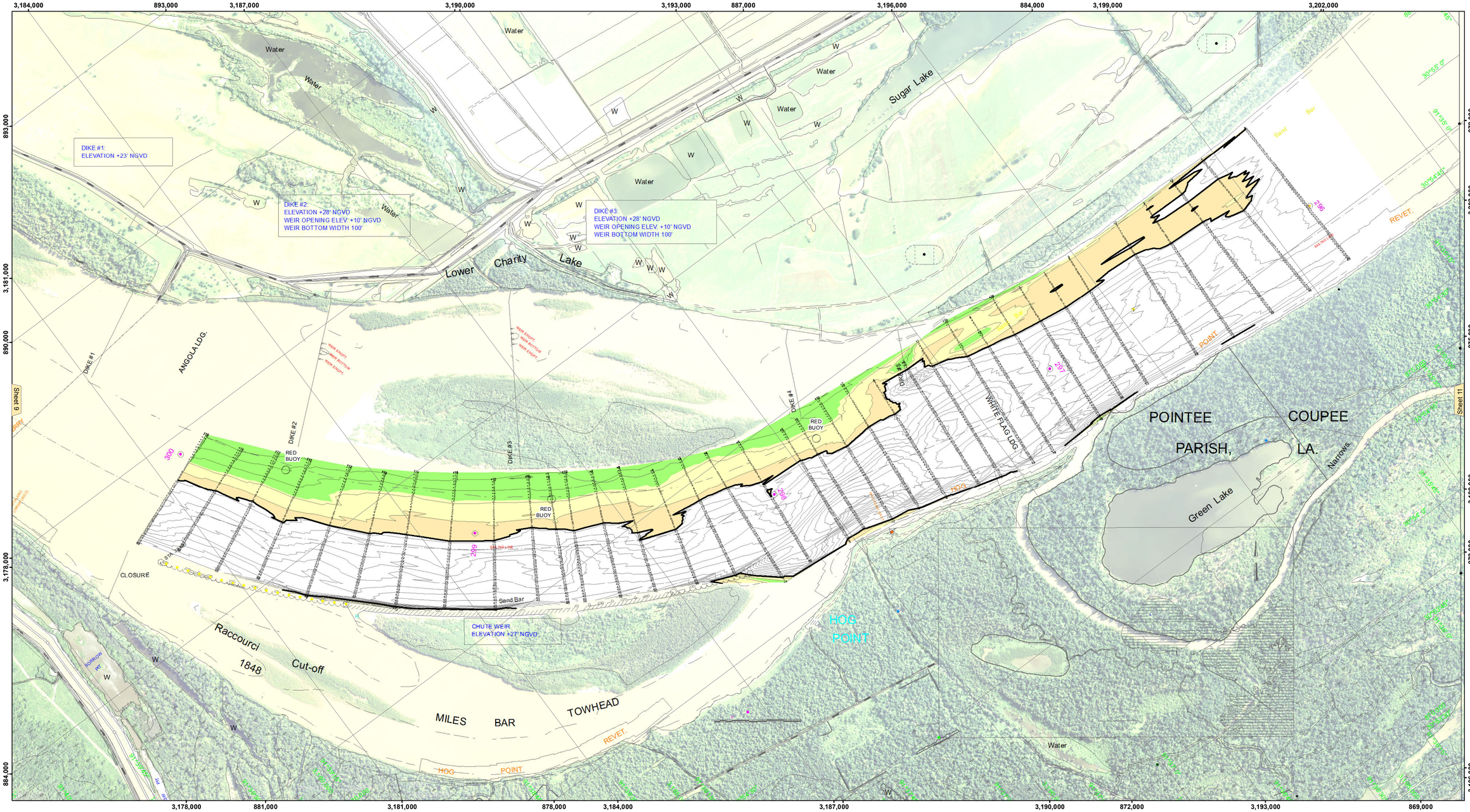

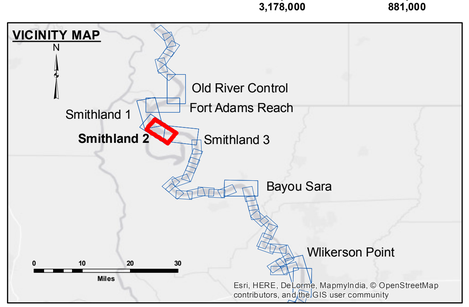

LEGEND

- 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:40.1 BR:25.55 USED:39.50 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

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Data Constraints: Hydrographic survey data is subject to change due to environmental processes occurring between the time of survey activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the condition of the area occurring subsequent to the date of publication. This data is intended for U. S. Army Corps of Engineers' internal use. Private or commercial use of this data is strictly prohibited.

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: MSK	

MISSISSIPPI RIVER - SHALLOW DRAFT
SMITHLAND - SHEET 2
MS_10_SM2_20150818
18 August 2015

Sheet Reference Number
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