

US Army Corps of Engineers District: CEMVN

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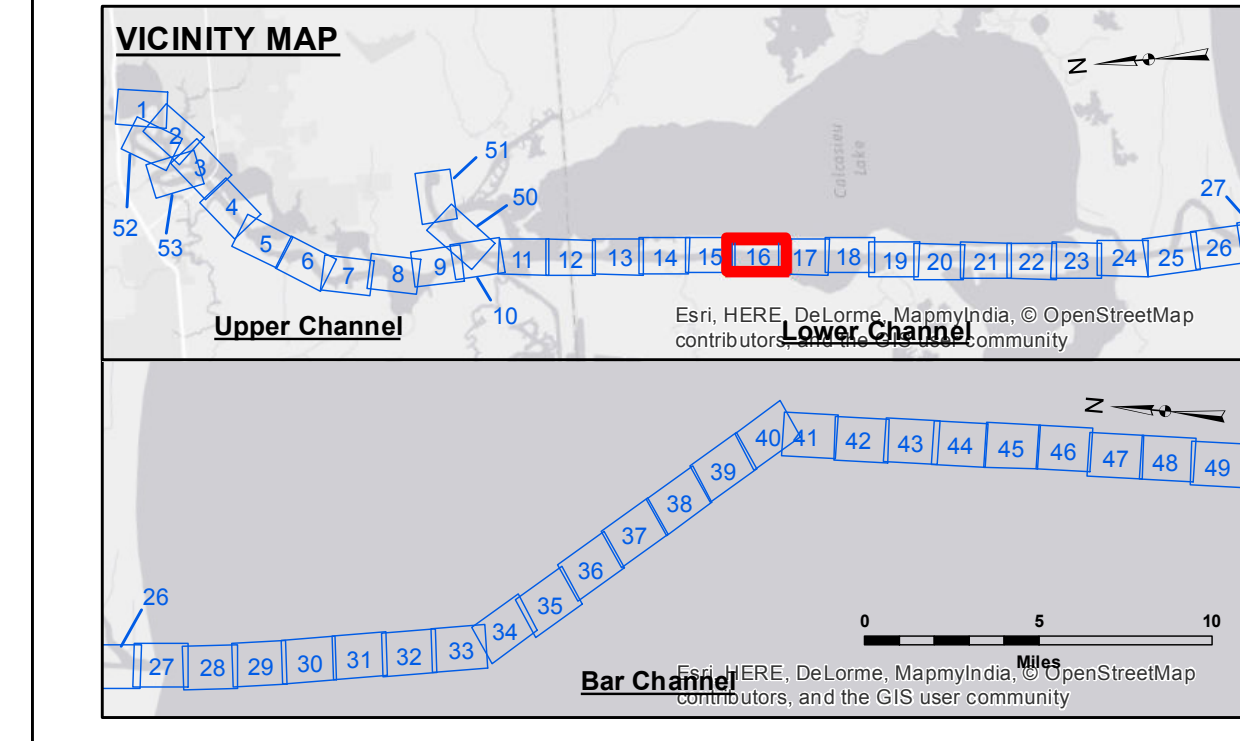
Submitted:	Surveyed By:	Plotted By:	Checked By:
	SPS:JH	BITD	TAF
Revised/Revised:	Chief, Survey Section		
Approved:	Chief, Waterways Maintenance Section		

**U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT**

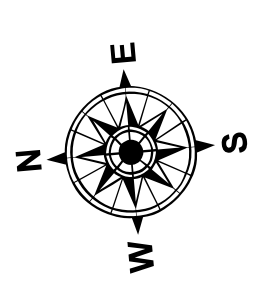
**CALCASIEU SHIP CHANNEL
LOWER SHEET 16
CR_16_LWR_20150714
14 July 2015**

**Sheet Reference Number
16 of 53**

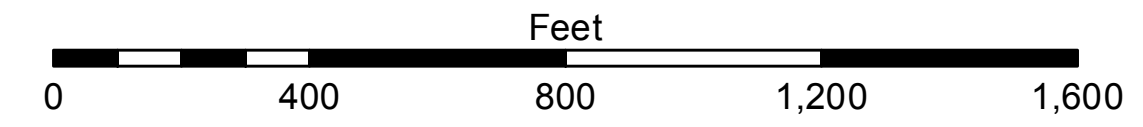
Revision Number: 3.8-9-20150702



LEGEND		Color Key	
--- Federal Navigation Channel	○ Cable Area	Red	-15' and above
— Federal Navigation Center Line	□ Placement Area	Orange	-15' to -20'
— As-built Pipeline/Cable	□ Anchorage Area	Yellow	-20' to -25'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	Light Green	-25' to -32'
— Project Depth Contour	⊗ Wrecks-Submerged	Green	-32' to -38'
	★ Beacon, General	Light Blue	-38' to -40'
	◆ Borrow Area	Blue	-40' to -42'
	● Shoalest Sounding**	Dark Blue	-42' and below
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		



Gage Reading: HACKBERRY: 2.4 MLG
Sea Conditions: CALM
Vessel Name: MV TECHE
Survey Type: CONDITION
Sounding Frequency***: LOW



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 Gull Datum (MLG). Datum Relationships for gage 73600 as of December 2013: 0.0' NAVD83 (OPUS 2010) = 1.0' MLLW = 2.0' MLG or 0.0' MLLW = 1.0' MLG

Distances on the Calcasieu River are shown at 1 mile intervals.

The location of navigation aids are based on and provided by the U.S. Coast Guard and USACE survey crews.

2010 Aerial Photography data source: NAIP

Reference is N.O.A.A. Navigation Chart No. 11339.

** 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.