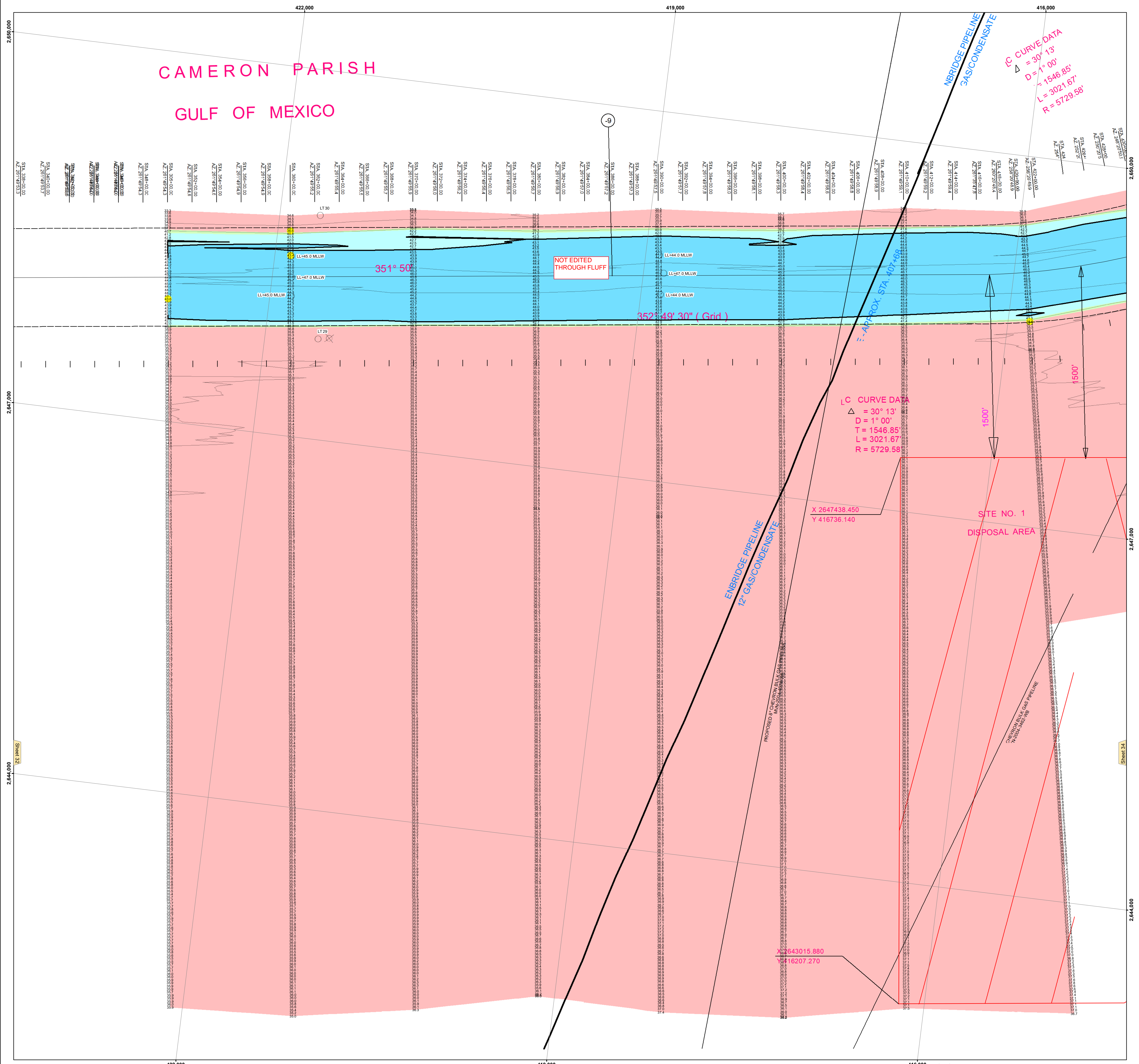




US Army Corps of Engineers
District: CEMVW

CAMERON PARISH
GULF OF MEXICO



NOT EDITED THROUGH FLUFF

LC CURVE DATA
Δ = 30° 13'
D = 1° 00'
T = 1546.85'
L = 3021.67'
R = 5729.58'

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Δ = 30° 13'
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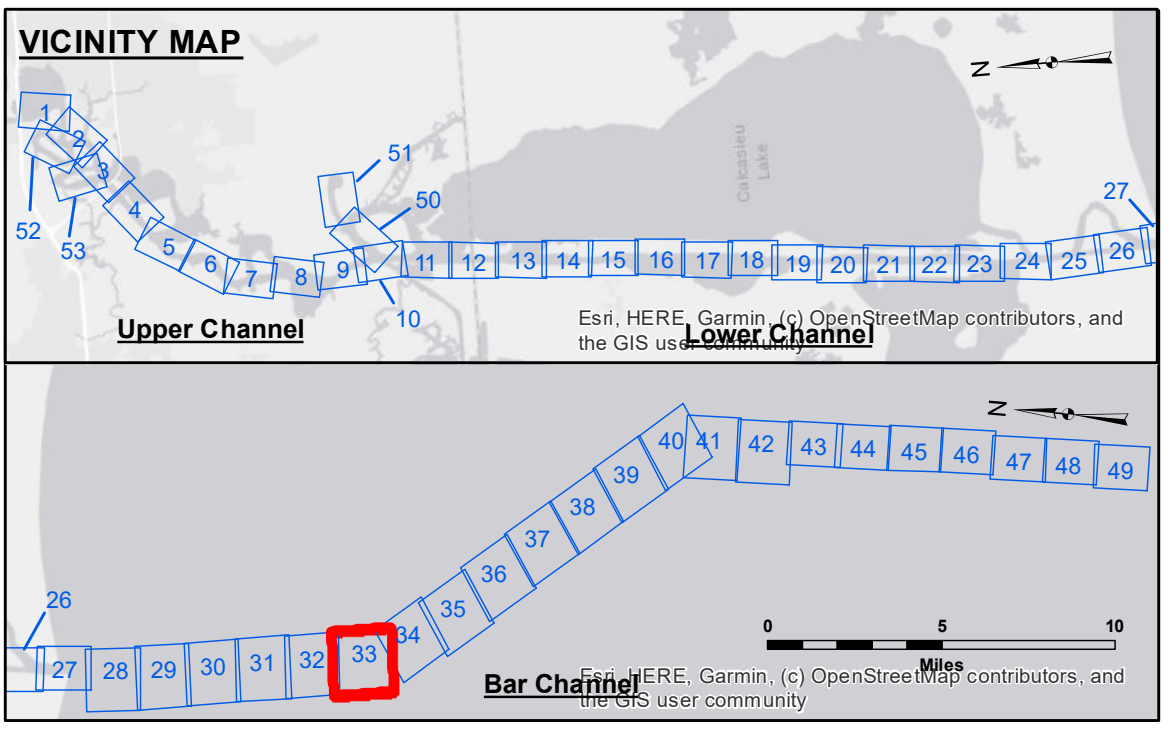
DISCLAIMER: The United States Government furnishes this data for the use of the user. It is not to be distributed, reproduced, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the United States Government. The user shall be responsible for the accuracy, reliability, and completeness of the information furnished hereon. The user shall not be held liable for any damages, including consequential damages, arising from the use of this information. The user shall also be responsible for the accuracy, reliability, and completeness of the information furnished hereon. The user shall not be held liable for any damages, including consequential damages, arising from the use of this information.

Submitted:	Checked By:
Approved:	Chief, Waterways Maintenance Section
Reviewed By:	Chief, Survey Section
Accepted:	Chief, Survey Section

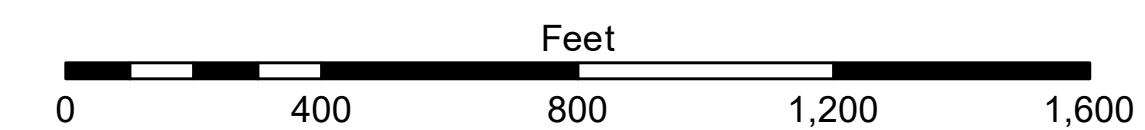
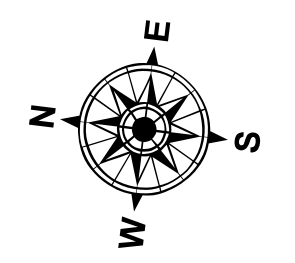
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
CALCASIEU SHIP CHANNEL
BAR SHEET 33
CR_33_BARX_20190731_CS
31 July 2019

Sheet Reference Number
33 of 53

Revision Number:
43-20190702



LEGEND	
--- Federal Navigation Channel	3 Fluff Thickness (feet)*
--- Federal Navigation Center Line	• Shoalest Sounding**
--- As-built Pipeline/Cable	★ Beacon, General
--- Unconfirmed Pipeline/Cable	★ Red Navigation Buoy
--- Project Depth Contour	★ Green Navigation Buoy
□ Placement Area	■ -16' and above
□ Anchorage Area	■ -21' to -26'
□ Obstruction Point	■ -26' to -33'
□ Wrecks-Submerged	■ -33' to -39'
	■ -39' to -41'
	■ -41' to -43'
	■ -43' and below



Gage Reading: CAMERON: 2.7 to 0.7 MLLW
Sea Conditions: 2-3'
Vessel Name: VALENTOUR
Survey Type: CS
Sounding Frequency***: HIGH

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 Lower Low Water Datum (MLLW).
Datum Relationships for page 73650 as of December 2013:
0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' 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.
2015 Aerial Photography data source: NAIP
Reference is N.O.A. Navigation Chart No. 11339.
* Difference between high and low frequency elevations where greater than 1.0'.
** 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.