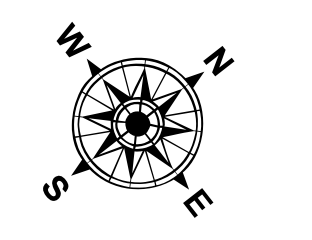


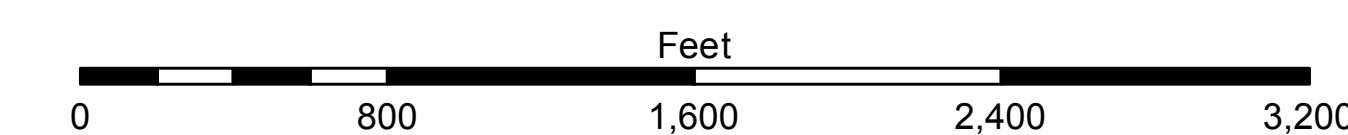
GULF SOUTH
KCOH GATEWAY
PIPELINE INDUSTRIES
20" PIPELINE
EL. -28.0 M.L.G.

LEGEND

--- Federal Navigation Channel	--- Cable Area	□ Borrow Area	■ -15' and above
— Federal Navigation Center Line	■ Placement Area	● Shoalest Sounding**	■ -15' to -20'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -20' and below
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	3 Fluff Thickness*
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	



Gage Reading: EUGENE ISLAND: 2.3 MLG AVG
 Sea Conditions: 1-3 FT.
 Vessel Name: MV BURRWOOD
 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 Gulf Datum (MLG).
 Datum Relationships for the gage 88600 as of August 2013:
 0.0' NAVD83 = 0.0' MLLW = 1.5' MLG
 Distances on the Atchafalaya River are shown at 1 mile intervals.
 The location of navigation aids are based on and provided by the U.S. Coast Guard.
 2013 Aerial Photography data source: GEOCLIP, Atlantic Group, LLC. (1998 DOQQ imagery in green).
 Reference is N.O.A.A. Navigation Chart No. 11354.
 * 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 the "fluff" layer to depict elevations of consolidated bottom
 material. Low frequency accuracies may vary depending on channel conditions and bathymetric
 settings.

DISCLAIMER: The data presented in this report is for informational purposes only and is not intended to be used for any other purpose. The data is provided as a service to the user and is not a warranty of any kind. The user assumes all responsibility for the use of the data. The data is provided as a service to the user and is not a warranty of any kind. The user assumes all responsibility for the use of the data. The data is provided as a service to the user and is not a warranty of any kind. The user assumes all responsibility for the use of the data.

Submitted By:	RYLAND/DAMS
Reviewed By:	AO
Checked By:	AN
Approved By:	AN

**ATCHAFALAYA RIVER
 BAR CHANNEL
 AR_03_BAR_20160113
 13 January 2016**

**Sheet Reference Number
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