APPROXIMATE C/L STATION COORDINATES		
C/L STATION	X-COORDINATE	Y-COORDINATE
P.I. #1 372+08.85	3909089.663'	251898.575'
P.C. #1 387+69.67	3908463.268'	250508.431'
P.T. #1 399+43.87	3907772.659'	249578.599'
P.C. #2 408+30.36	3907064.719'	249045.046'
P.T. #2 428+60.47	3905580.073'	247665.679'
P.C. #3 437+41.80	3904999.381'	247002.698'
P.T. #3 459+42.97	3903270.195'	245662.663'
P.C. #4 467+91.46	3902512.594'	245280.595'
P.T. #4 482+55.10	3901303.642'	244462.639'
P.C. #5 505+00.80	3899619.13'	242977.52'
P.T. #5 517+18.49	3898524.71'	242486.89'

CHAWEE BAY

CHAWEE BAY

PLAQUEMINES PARISH, LA.

CURVE DATA NO. 1
Δ = 32 47'13.92"
D = 2 47'32.30"
T = 603.66'
L = 1,174.20'
R = 2,051.92'

CURVE DATA NO. 2
Δ = 11 46'51.96"
D = 0 34'49.15"
T = 1,018.65'
L = 2,030.11'
R = 9,873.14'

CURVE DATA NO. 3
Δ = 22 01'22.80"
D = 1 00'01.86"
T = 1,114.34'
L = 2,201.17'
R = 5,726.62'

CURVE DATA NO. 4
Δ = 14 38'17.16"
D = 1 00'00.41"
T = 735.83'
L = 1,463.64'
R = 5,728.93'

CURVE DATA NO. 5
Δ = 34 30'28.90"
D = 2 50'02.04"
T = 627.94'
L = 1,217.69'
R = 2,021.80'

CHEVRON USA PRODUCTION
1-10" PIPELINE
APPROX. STA. 423+00
EL. TOP OF PIPE -22.6

EL PASO SO. NAT. GAS PIPELINE CO.
1-6" PIPELINE
APPROX. STA. 447+27 C/L
EL. TOP OF PIPE -25.0

HILCORP ENERGY CO
- HARVEST PIPELINE CO
1-2.5" PIPELINE
APPROX. STA. 450+33 C/L
EL. TOP OF PIPE -20.6

GULF SOUTH PIPELINE CO.
(FORMERLY KOCH GATEWAY AND
UNITED GAS P/L CO.
1-10" GAS PIPELINE
APPROX. STA. 484+36 C/L
EL. TOP OF PIPE -23.5
(ABANDONED IN PLACE)

L.P.&L./ENTERGY SUB CABLE
APPROX. STA. 485+72 C/L
EL. TOP OF CABLE -23.5 M.L.G.
(ABANDONED IN PLACE
(PRE-KATRINA LOCATION)

EL PASO - TENNESSEE
GAS PIPELINE CO.
1-20" & 1-26" PIPELINE
APPROX. STA. 498+15 C/L
AND STA. 499+25 C/L
EL. TOP OF PIPE -24.0
AND -22.0 (RESPECTIVELY)

PROPOSED HILCORP ENERGY (1) 12" & (1) 4" FLOWLINE

C/L STA. 388+00
X= 3,908,450.488
Y= 250,474.635

P.I. STA. 372+08.85 C/L
AZ 205° 09'31.02"
AZ 204° 00'
AZ 222° 11'37"
AZ 244° 12'43"
AZ 229° 34'17"

P.C. #1 387+69.67 C/L
P.T. #1 399+43.87 C/L
P.C. #2 408+30.36
P.T. #2 428+60.47 C/L
C. #3 437+41.80 C/L
P.T. #3 459+42.87 C/L
P.C. #4 467+91.46 C/L
P.T. #4 482+55.10 C/L
P.C. #5 505+00.80

MILE 8. STA. 422+40 C/L
MILE 9. STA. 475+20 C/L

ACCESS ROUTE #1
ACCESS ROUTE #2
ACCESS ROUTE #3
ACCESS ROUTE #4

DM #19
DM #24
DM #25
DM #26
DM #27
DM #28
DM #29
DM #30
DM #31
DM #33
DM #34
DM #36

BUOY #32
BUOY 24

UNCONFINED DISPOSAL AREA WDA-1
(MAX. ELEV +5.0' M.L.G.)

UNCONFINED DISPOSAL AREA WDA-2
(MAX. ELEV +5.0' M.L.G.)

UNCONFINED DISPOSAL AREA WDA-3
(MAX. ELEV +5.0' M.L.G.)

UNCONFINED DISPOSAL AREA WDA-3
(MAX. ELEV +5.0' M.L.G.)

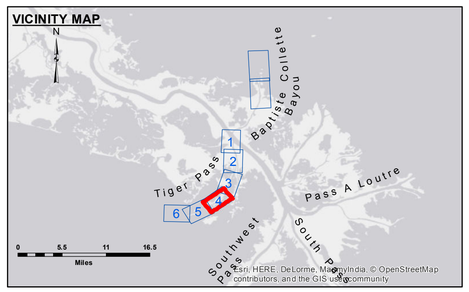
Sheet 3

Sheet 5

3,913,000 248,000 3,910,000 245,000 3,907,000 3,904,000 3,901,000

3,913,000 251,000 3,910,000 254,000 3,907,000 3,904,000 3,901,000 248,000 3,898,000 245,000 242,000

VICINITY MAP



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
- Borrow Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy
- -4' and above
- -4' to -8'
- -8' to -10'
- -10' to -12'
- -12' to -16'
- -16' and below

Gage Reading: DM 10: 3.6 MLG
Sea Conditions: CALM/CHOPPY
Vessel Name: OB-167
Survey Type: CONDITION
Sounding Frequency***: LOW

Feet
0 500 1,000 1,500 2,000 2,500

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 Mean Low Gulf Datum (MLG).
Datum relationships as of 01 May 2013:
0.0' MLLW (2002-2006) = 0.0' NAVD88 (2009.55) = 3.5' MLG

Distances on Tiger Pass are shown at 1 mile intervals.

The location of navigation aids are base on and provided by the U.S. Coast Guard.

2013 Aerial Photography data source: GEOCLIP, Atlantic Group, LLC. 1998 DOQQ imagery shown in green from USGS.

Reference is N.O.A.A. Navigation Chart No. 11353.

** 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

Distribution Liability: The data represents the results of data collection and analysis performed by the 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 survey. The Corps of Engineers accepts no responsibility for use of any of the application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change due to environmental conditions between the time of the survey activity and natural sh oaling and scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the condition of the area subsequent to the date of this publication. This data is intended for U. S. Army Corps of Engineers' internal use. Private or commercial should not rely solely upon it.

DISCLAIMER:
Access Constraints: The United States Government furnishes these data and information as is and makes no warranty with the express or implied concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof, whether or not caused by any negligent act or omission. If the recipient fully agrees not to represent these data to anyone as other than preliminary and unofficial, the recipient may request official certification of these data to others without also transferring this Disclaimer.

Use Constraints: The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

Surveyed By: SP,PM			
Plotted By: BTD			
Checked By: RN			
Submitted:		Chief, Survey Section	
Recommended:		Chief, Waterways Maintenance Section	
Approved:			

MISS. RIVER OUTLETS AT VENICE
TIGER PASS
OV_04_TIG_20151217
17 December 2015

Sheet Reference Number
4 **of** 6

Revison Number:
3.8.0-20150202