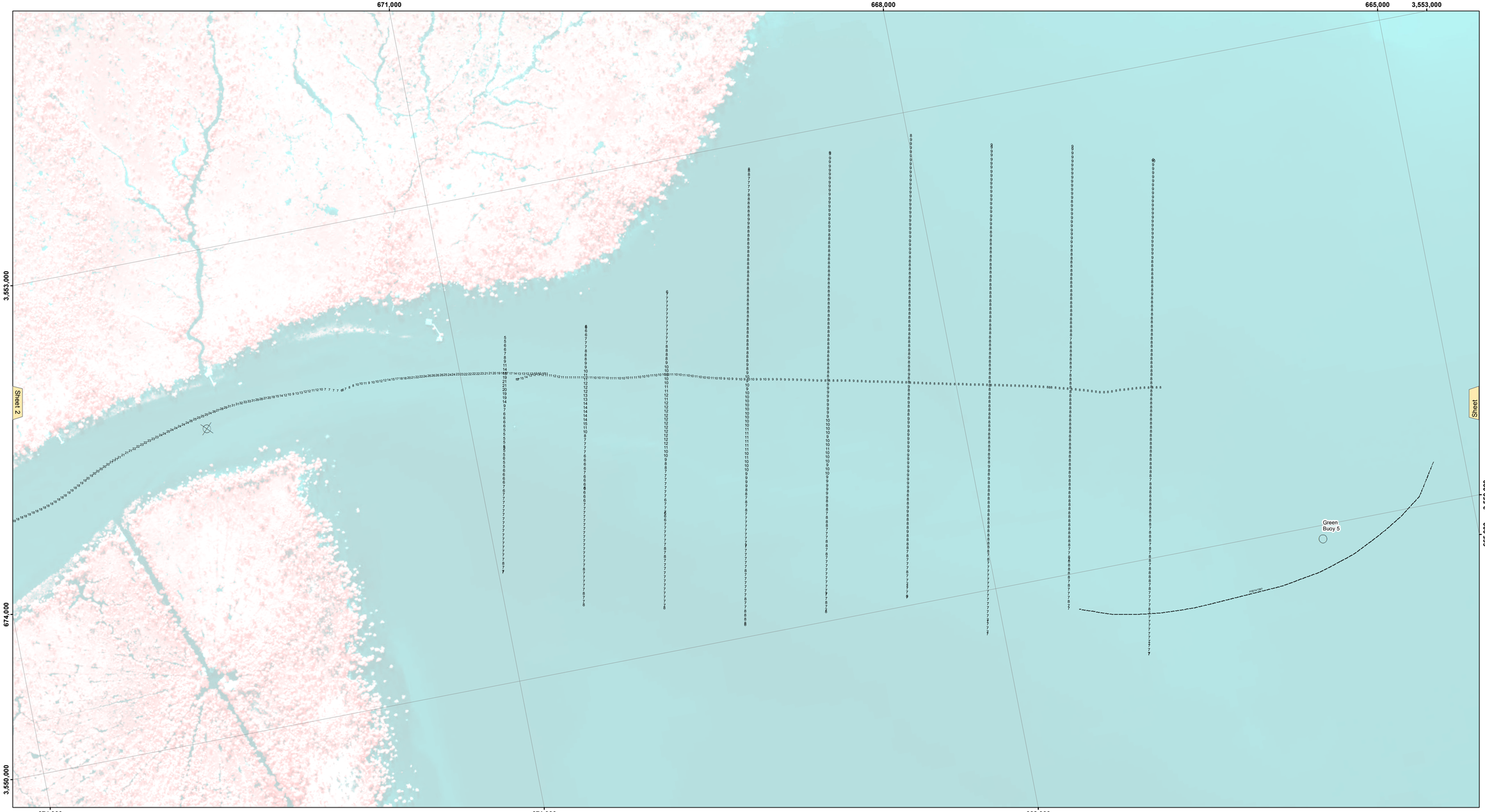

US Army Corps of Engineers District: CEMVN

DISCLAIMER

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Distribution Liability: The data represents the results of data collection conducted by the U.S. Army 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 the application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change due to environmental processes such as shoaling and erosion. Any activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers assumes no responsibility for changes in the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers internal use. Project maintained according to survey specs.

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

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

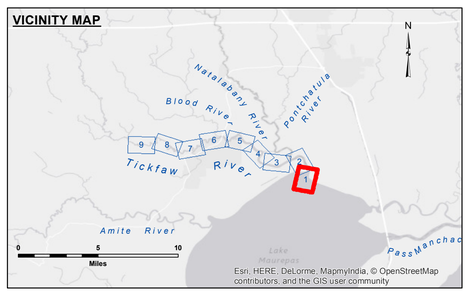
Submitted:	Surveyed By: SP_PM
	Plotted By: AO
Recommended: Chief, Survey Section	
Approved: Chief, Waterways Maintenance Section	Checked By: AO

NORTHSHORE WATERWAYS
TICKFAW RIVER
NS_11_TIC_20160929
29 September 2016

Sheet Reference Number
1 of 9

Revison Number:
3.8.0-20150202

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

Gage Reading:	85300: 0.6 NAVD88
Sea Conditions:	CALM
Vessel Name:	OB-167
Survey Type:	CONDITION
Sounding Frequency***:	LOW

Feet
0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

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

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

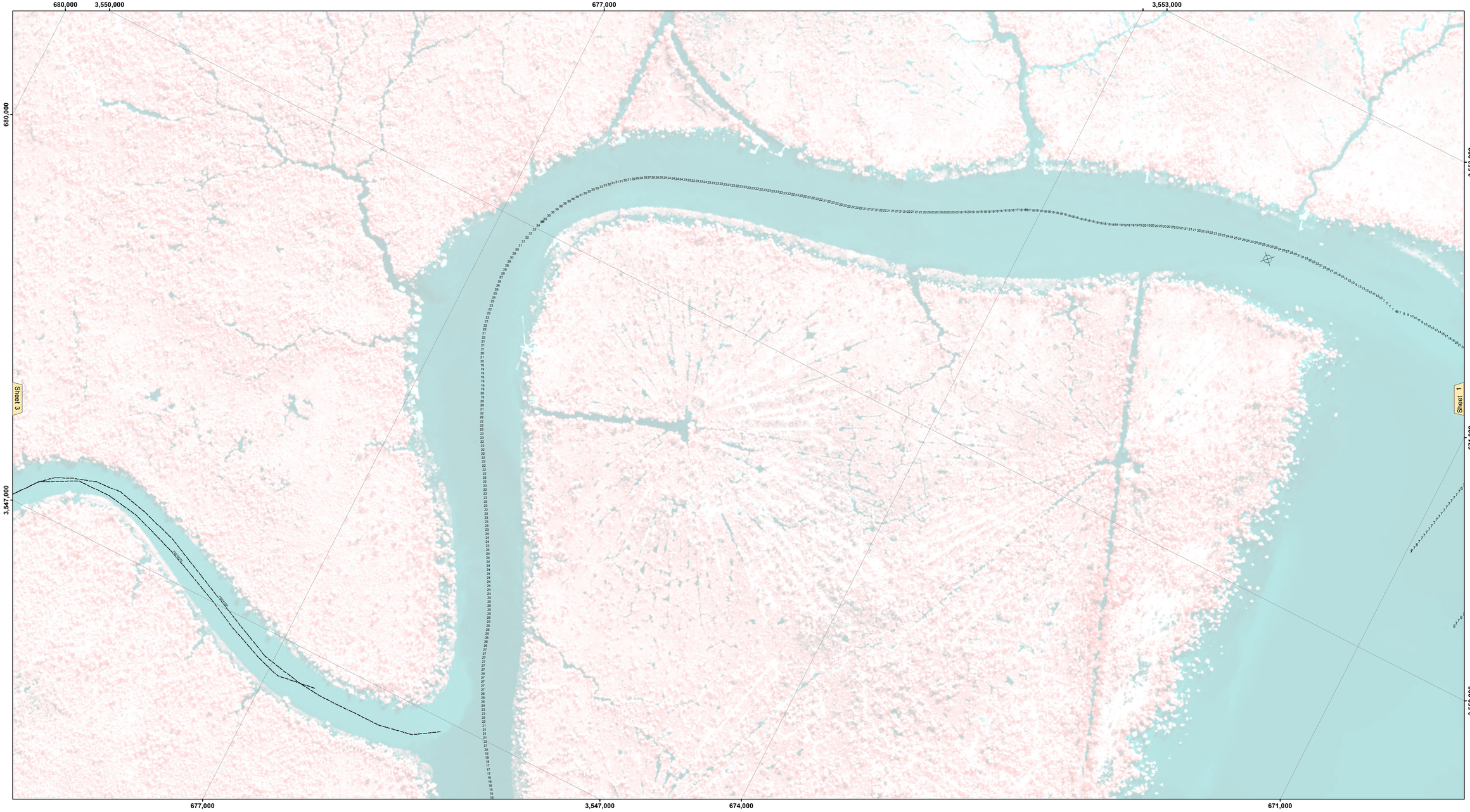
** Shoalest Sounding per Quarter per Reach.

*** 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.

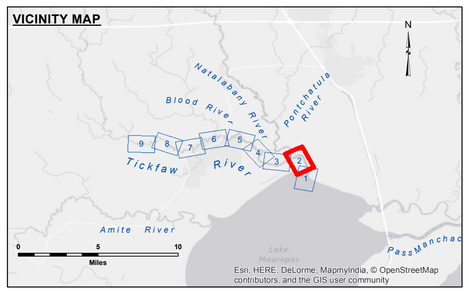
680,000 3,550,000 677,000 3,553,000

3,553,000 671,000 3,550,000 677,000 3,547,000 674,000 671,000

Sheet 3 Sheet 1



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

N E S W

Gage Reading: 85300: 0.6 NAVD88
Sea Conditions: CALM
Vessel Name: OB-167
Survey Type: CONDITION
Sounding Frequency***: LOW

Feet
0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

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

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

** 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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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 the time.

Distribution Liability: The data represents the results of data collection and processing activities of the U.S. Army Corps of Engineers activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy and is not to be used for navigation purposes. The U.S. assumes no liability 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 such as storms, fluctuations in tide, activity and natural shoaling and scouring processes. The U.S. Army Corps of Engineers assumes no responsibility for changes in the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers internal use. Project features were surveyed according to plans.

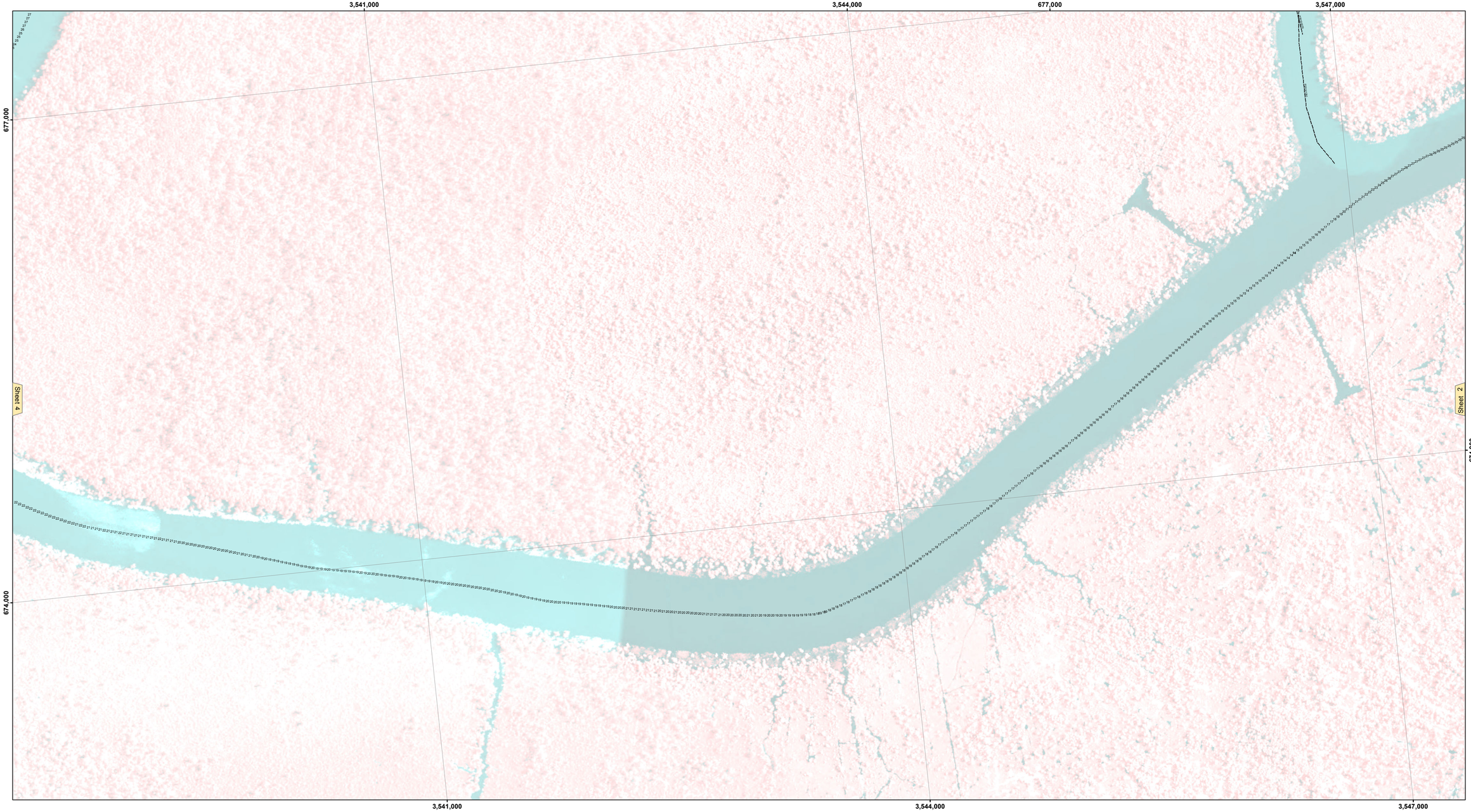
U.S. ARMY CORPRS OF ENGINEERS
NEW ORLEANS DISTRICT

Submitted:	Surveyed By: SP_PM	Checked By: AO
Recommended: Chief, Survey Section	Plotted By: AO	
Approved: Chief, Waterways Maintenance Section		

NORTHSHORE WATERWAYS
TICKFAW RIVER
NS_11_TIC_20160929
29 September 2016

Sheet Reference Number
2 of 9

Revison Number:
3.8.0-20150202



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 naturally and human activity and natural shoaling and scouring processes. The U.S. Army Corps of Engineers assumes no responsibility for changes in the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers' internal use. Present knowledge should be verify upon it.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

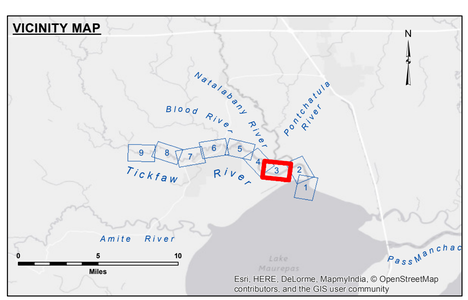
Surveyed By: SP_PM	
Plotted By: AO	
Checked By: AO	
Submitted:	
Recommended: Chief, Survey Section	
Approved: Chief, Waterways Maintenance Section	

NORTHSHORE WATERWAYS
TICKFAW RIVER
NS_11_TIC_20160929
29 September 2016

Sheet Reference Number
3 of 9

Revison Number:
3.8.0-20150202

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

N
W E
S

Gage Reading:	85300: 0.6 NAVD88
Sea Conditions:	CALM
Vessel Name:	OB-167
Survey Type:	CONDITION
Sounding Frequency***:	LOW

Feet
0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

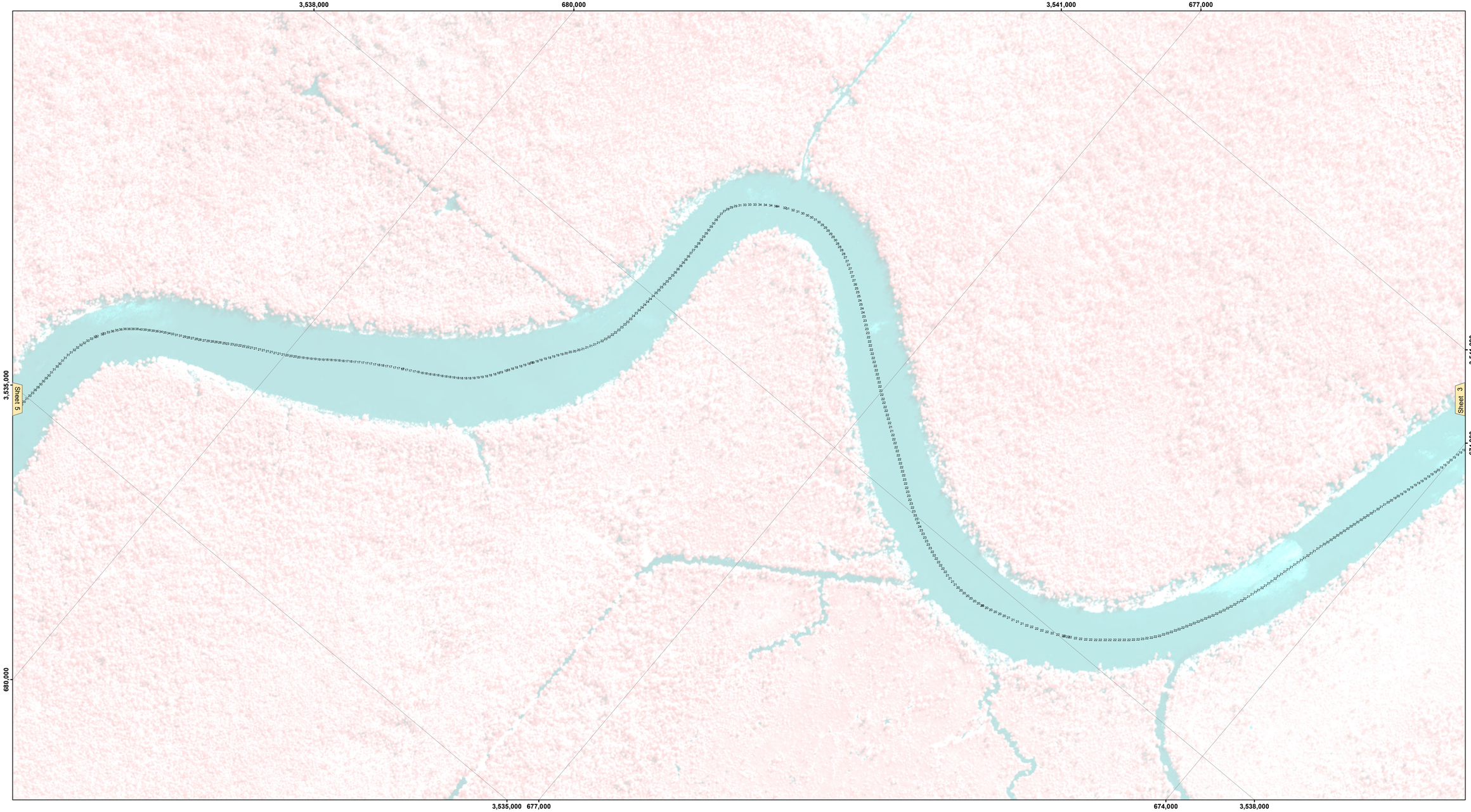
The location of navigation aids are base on and provided by the U.S. Coast Guard.

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

** 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 consoldiated 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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Distribution Liability: The data represents the results of data collection conducted by the U.S. Army 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 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 forces such as storms and natural shoaling activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers makes no warranty that the data is in the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers internal use. Project reviewed and only query upon it.

U.S. ARMY CORPPS OF ENGINEERS
NEW ORLEANS DISTRICT

Surveyed By: SP_PM
Plotted By: AO
Checked By: AO

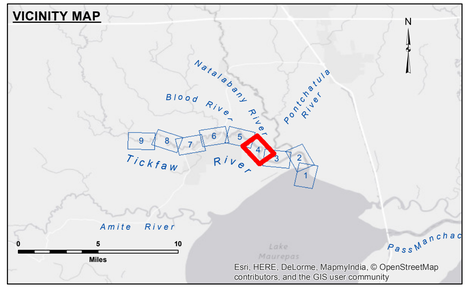
Submitted: _____
Recommended: Chief, Survey Section
Approved: Chief, Waterways Maintenance Section

NORTHSHORE WATERWAYS
TICKFAW RIVER
NS_11_TIC_20160929
29 September 2016

Sheet Reference Number
4 of 9

Revison Number:
3.8.0-20150202

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

Gage Reading:	85300: 0.6 NAVD88
Sea Conditions:	CALM
Vessel Name:	OB-167
Survey Type:	CONDITION
Sounding Frequency***:	LOW

Feet
0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

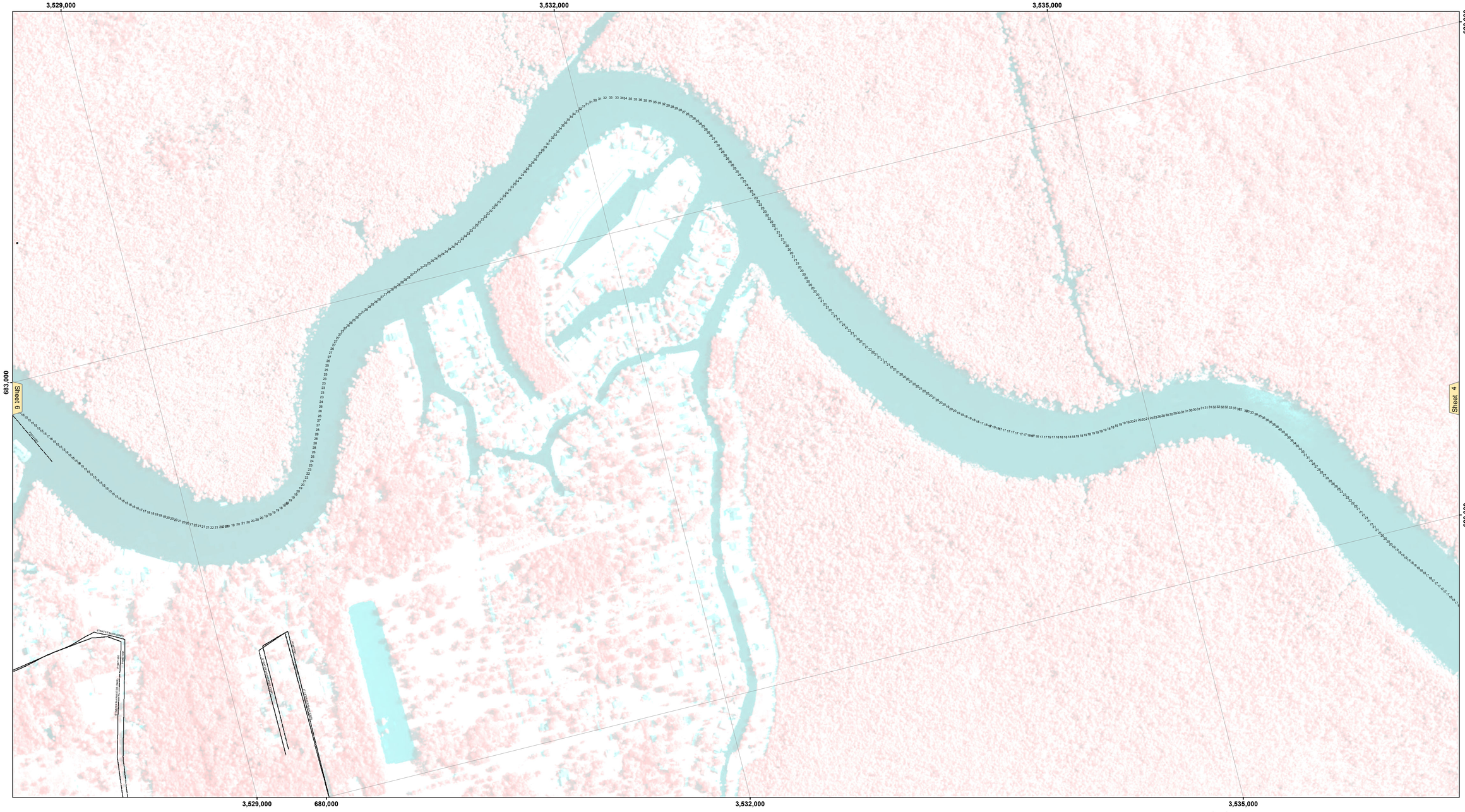
The location of navigation aids are base on and provided by the U.S. Coast Guard.

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

** 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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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 the time.

Distribution Liability: The data represents the results of data collection conducted by the U.S. Army 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 collection. The U.S. Government assumes no liability for misuse 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 processes such as shoaling, storm activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers assumes no responsibility for changes in the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers internal use. Project maintained dredge depth is 12 feet.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

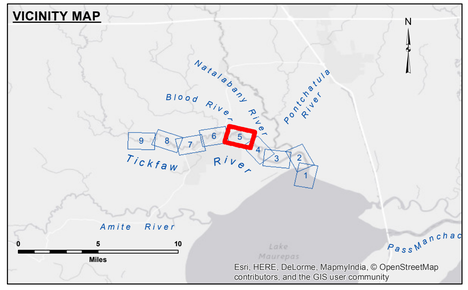
Surveyed By:	SP_PM
Plotted By:	AO
Checked By:	AO
Submitted:	
Recommended:	Chief, Survey Section
Approved:	Chief, Waterways Maintenance Section

NORTHSHORE WATERWAYS
TICKFAW RIVER
NS_11_TIC_20160929
29 September 2016

Sheet Reference Number
5 of 9

Revison Number:
3.8.0-20150202

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

Gage Reading:	85300: 0.6 NAVD88
Sea Conditions:	CALM
Vessel Name:	OB-167
Survey Type:	CONDITION
Sounding Frequency***:	LOW

Feet
0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

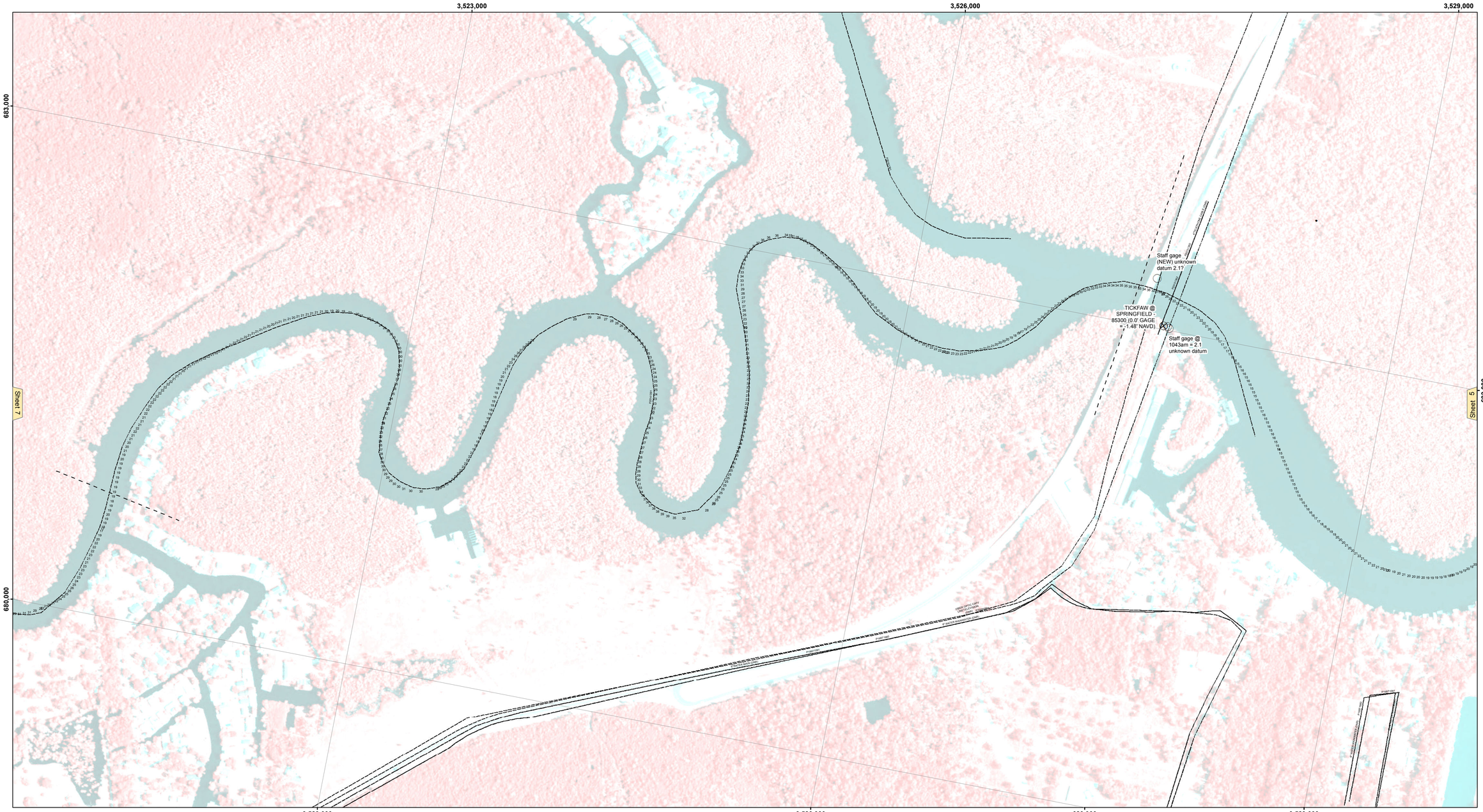
The location of navigation aids are base on and provided by the U.S. Coast Guard.

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

** 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 conducted by the U.S. Army 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 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 forces exerted on the bottom by natural activity and natural shoaling and scouring processes. The U.S. Army Corps of Engineers makes no warranty, expressed or implied, as to the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers internal use. Project limits are based on survey spoil.

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

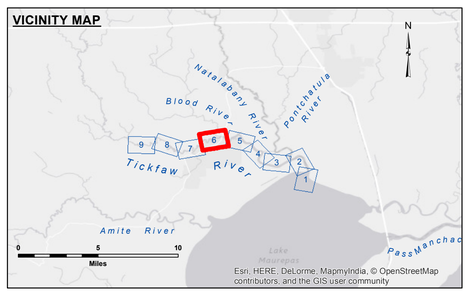
Submitted:	
Surveyed By:	SP_PM
Plotted By:	AO
Checked By:	AO
Recommended:	Chief, Survey Section
Approved:	Chief, Waterways Maintenance Section

NORTHSHORE WATERWAYS
TICKFAW RIVER
NS_11_TIC_20160929
29 September 2016

Sheet Reference Number
6 of 9

Revison Number:
3.8.0-20150202

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

N W E S

Gage Reading:	85300: 0.6 NAVD88
Sea Conditions:	CALM
Vessel Name:	OB-167
Survey Type:	CONDITION
Sounding Frequency***:	LOW

Feet
0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

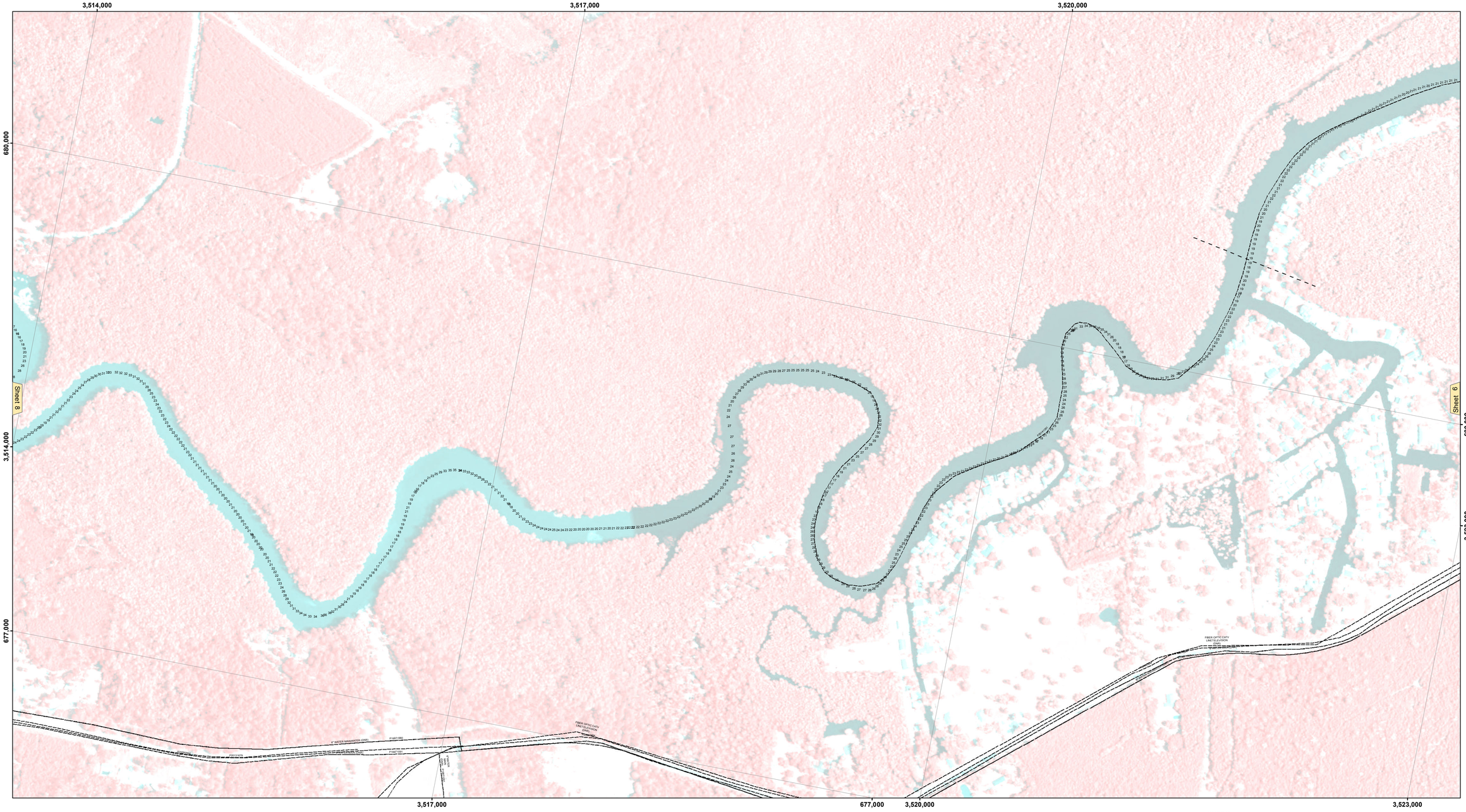
The location of navigation aids are base on and provided by the U.S. Coast Guard.

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

** 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.


3,514,000
3,517,000
3,520,000
680,000
677,000
3,523,000
Sheet 8
Sheet 6
FIBER OPTIC CATV
FIBER OPTIC CATV
6" WATER MAINWATER (SND)
P1997-080
P1997-081
P1997-082
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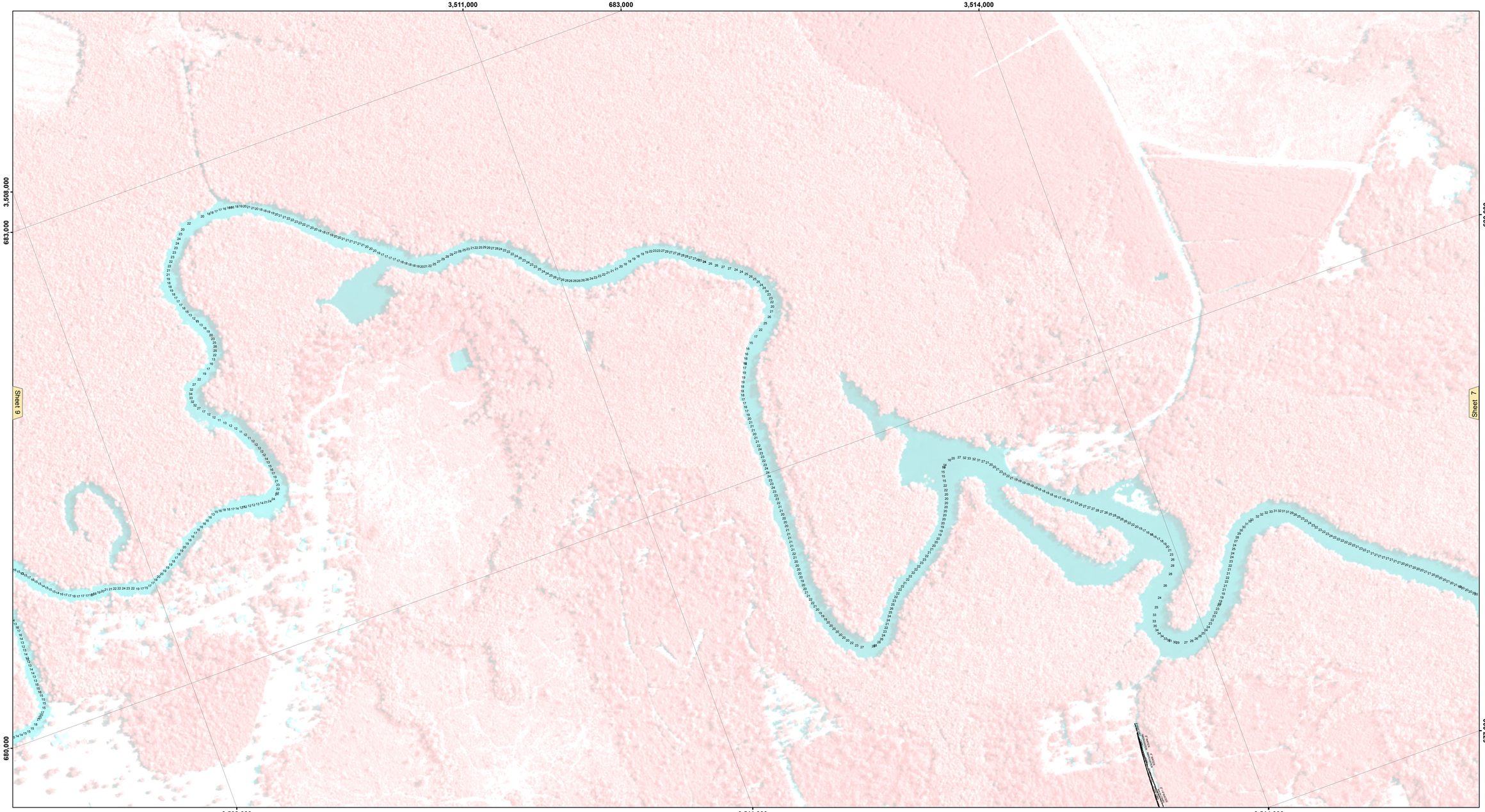
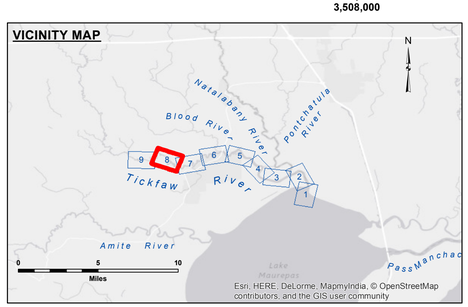
3,508,000 683,000 680,000 677,000

Sheet 6 Sheet 7



3,508,000 3,511,000 3,514,000

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

N E S W

Gage Reading:	85300: 0.6 NAVD88
Sea Conditions:	CALM
Vessel Name:	OB-167
Survey Type:	CONDITION
Sounding Frequency***:	LOW

Feet

0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

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

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

** 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 consoldiated 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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U.S. ARMY CORPPS OF ENGINEERS
NEW ORLEANS DISTRICT

Submitted:		Surveyed By: SP_PM	
Recommended:	Chief, Survey Section	Plotted By: AO	
Approved:	Chief, Waterways Maintenance Section	Checked By: AO	

NORTHSHORE WATERWAYS
TICKFAW RIVER
NS_11_TIC_20160929
29 September 2016

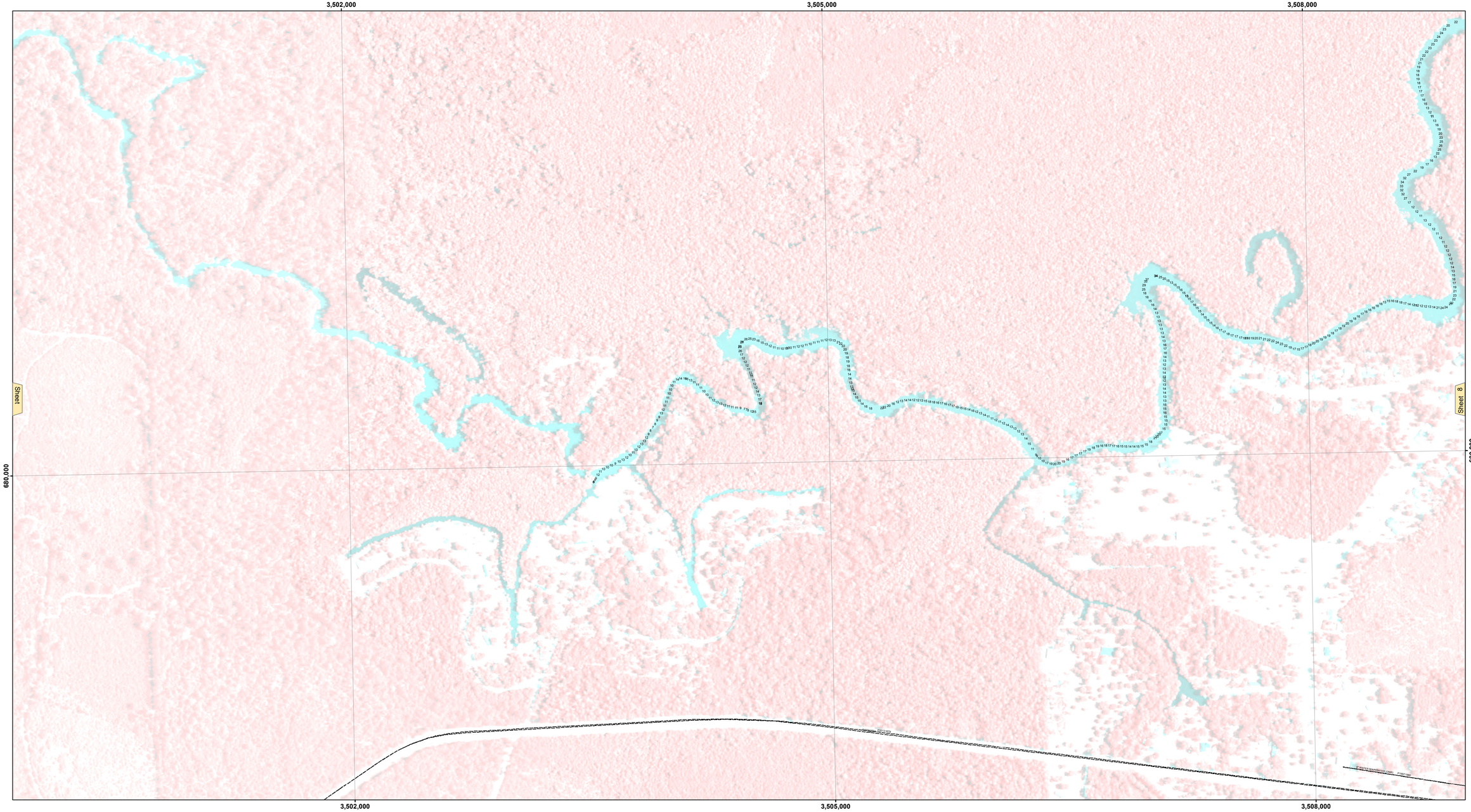
Sheet Reference Number
8 of 9

Revison Number:
3.8.0-20150202

3,502,000 3,505,000 3,508,000

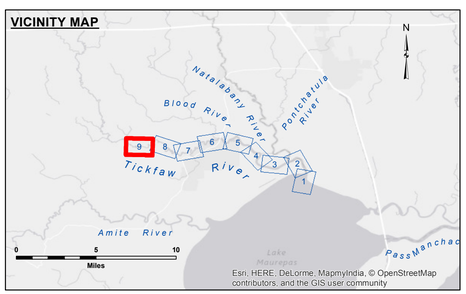
680,000

Sheet 1 Sheet 8



3,502,000 3,505,000 3,508,000

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

N W E S

Gage Reading:	85300: 0.6 NAVD88
Sea Conditions:	CALM
Vessel Name:	OB-167
Survey Type:	CONDITION
Sounding Frequency***:	LOW

Feet
0 500 1,000 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 North American Vertical Datum of 1988 (NAVD88).

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

2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

** 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 such as shoaling, dredging activity and natural shoaling and scouring processes. The U.S. Army Corps of Engineers assumes no responsibility for changes in the hydrographical conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers internal use. Project tolerance used on survey type 4.

U.S. ARMY CORPPS OF ENGINEERS
NEW ORLEANS DISTRICT

Submitted:	Surveyed By: SP_PM	
Recommended: Chief, Survey Section	Plotted By: AO	Checked By: AO
Approved: Chief, Waterways Maintenance Section		

NORTHSHORE WATERWAYS
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