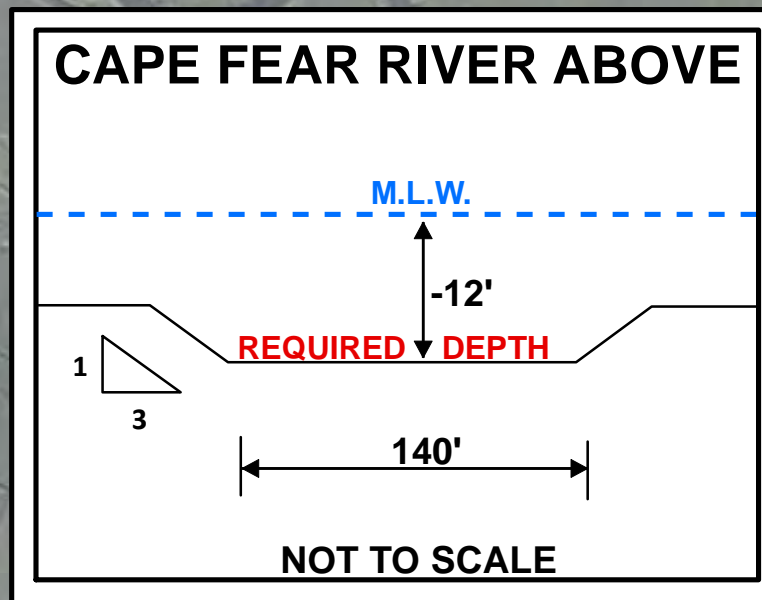
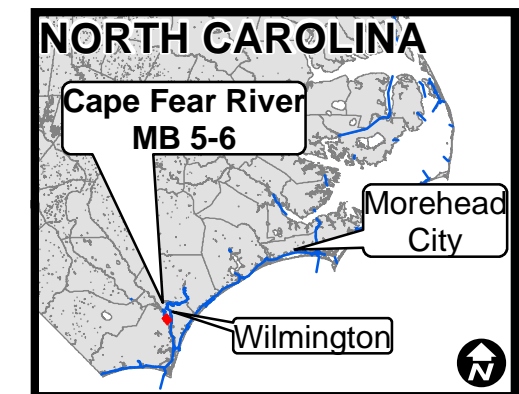


77°59'15"W 77°59'0"W 34°16'0"N 77°58'45"W 34°15'45"N 77°58'30"W 34°15'30"N 77°58'15"W

CAPE FEAR RIVER ABOVE WILMINGTON



US Army Corps of Engineers
Wilmington District



New Hanover County

Brunswick County

Navassa, NC
1/2 mile

MB 6

MB 5

Matchline

Matchline

LEGEND

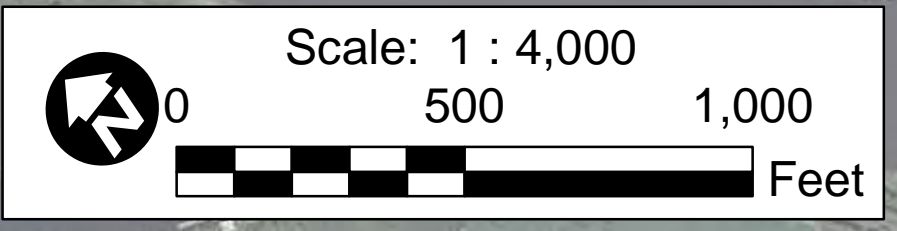
Navigation Aids	Depth In Feet
Can	0 - 4
Nun	4 - 6
Danger Sign	6 - 7
Green Daybeacon	7 - 8
Red Daybeacon	8 - 10
Junction Buoy	10 - 12
Green Light	12 - 14
Red Light	14 - 15
Green Lighted Buoy	15 and deeper
Red Lighted Buoy	Navigation Channel
Mileboard	
Tide Gage	

NOTES:

- SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO M.L.W..
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
- VERTICAL DATUM: BALDHEAD
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
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NAVIGATION AIDS

Type	Number	Survey Date	SPF X	SPF Y	DMS X	DMS Y
Mileboard	5	2009-08-19	2306030	189085	77° 59' 13.821" W	34° 15' 54.845" N
Mileboard	6	2009-08-19	2303192	191472	77° 59' 47.350" W	34° 16' 18.739" N



Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 14, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-10A
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mbs-6_2009-08-19.mxd

CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

**CAPE FEAR RIVER ABOVE
MILEBOARDS 5-6**

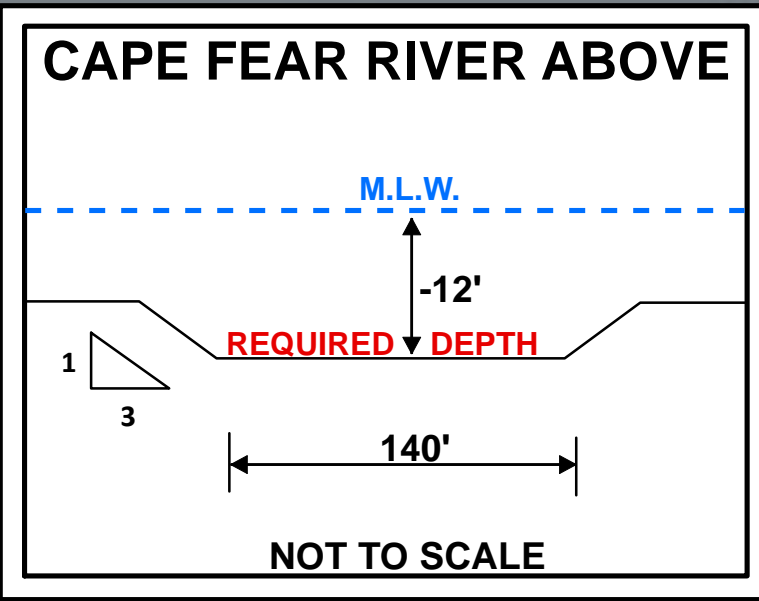
CAPE FEAR RIVER, NC

77°59'30"W
77°59'15"W
77°59'0"W
77°58'45"W
77°58'30"W
77°58'15"W

34°16'0"N
34°15'45"N
34°15'30"N
34°15'15"N
34°15'0"N
34°14'45"N
34°14'30"N

78°0'30"W 78°0'15"W 78°0'0"W 77°59'45"W 34°14'45"N 77°59'30"W

78°0'15"W 34°18'0"N 78°0'0"W 34°17'45"N 77°59'45"W 77°59'30"W 34°17'0"N 77°59'15"W 34°16'45"N

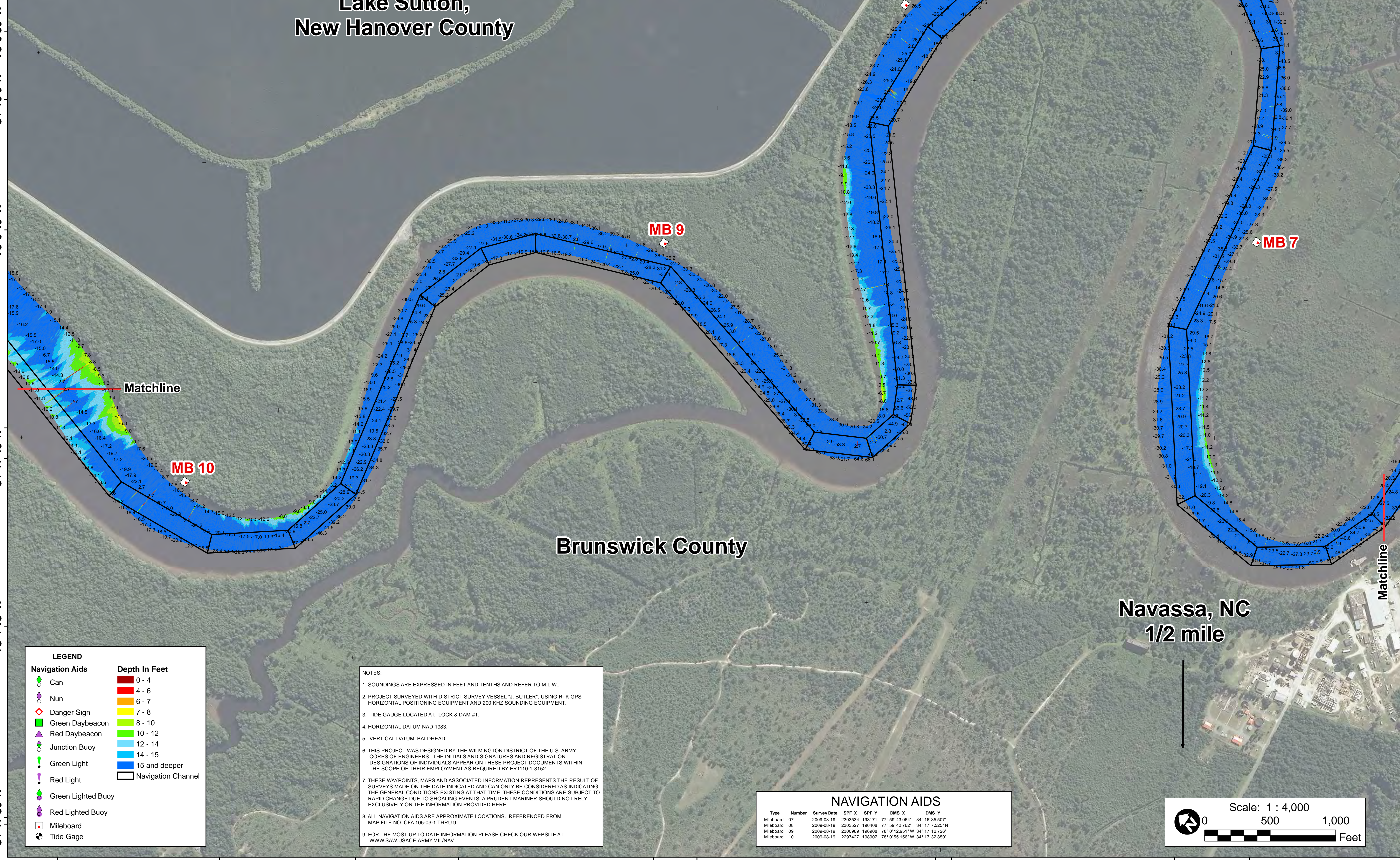


CAPE FEAR RIVER ABOVE WILMINGTON

Lake Sutton,
New Hanover County

Brunswick County

Navassa, NC
1/2 mile



LEGEND

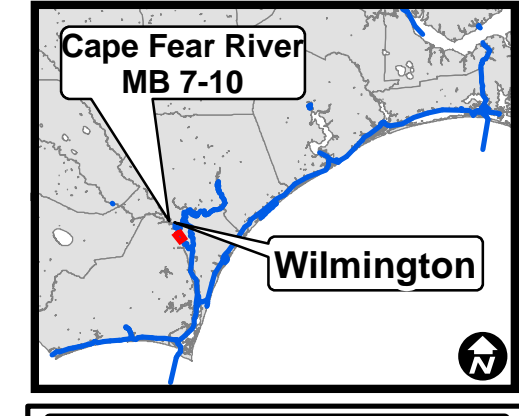
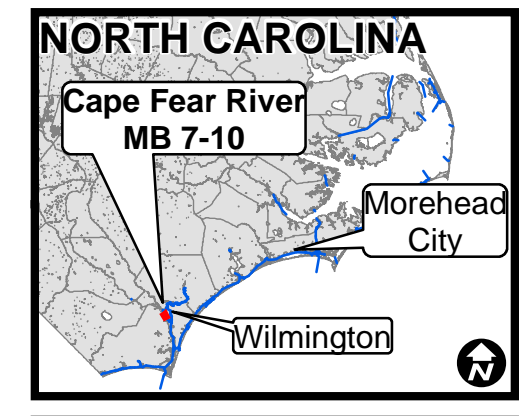
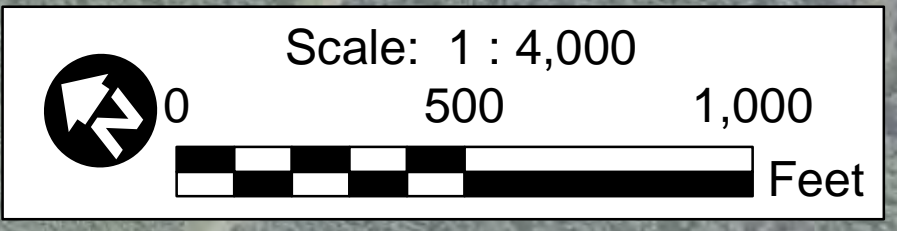
Navigation Aids	Depth In Feet
Can	0 - 4
Nun	4 - 6
Danger Sign	6 - 7
Green Daybeacon	7 - 8
Red Daybeacon	8 - 10
Junction Buoy	10 - 12
Green Light	12 - 14
Red Light	14 - 15
Green Lighted Buoy	15 and deeper
Red Lighted Buoy	Navigation Channel
Mileboard	
Tide Gage	

NOTES:

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- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
- VERTICAL DATUM: BALDHEAD.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
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NAVIGATION AIDS

Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard 07	2009-08-19	2303534	193171	77°59'43.064"	34°16'35.507"	
Mileboard 08	2009-08-19	2303527	196408	77°59'42.762"	34°17'52.521"	
Mileboard 09	2009-08-19	2300989	196908	78°0'12.951"	34°17'12.726"	
Mileboard 10	2009-08-19	2297427	198907	78°0'55.156"	34°17'32.850"	



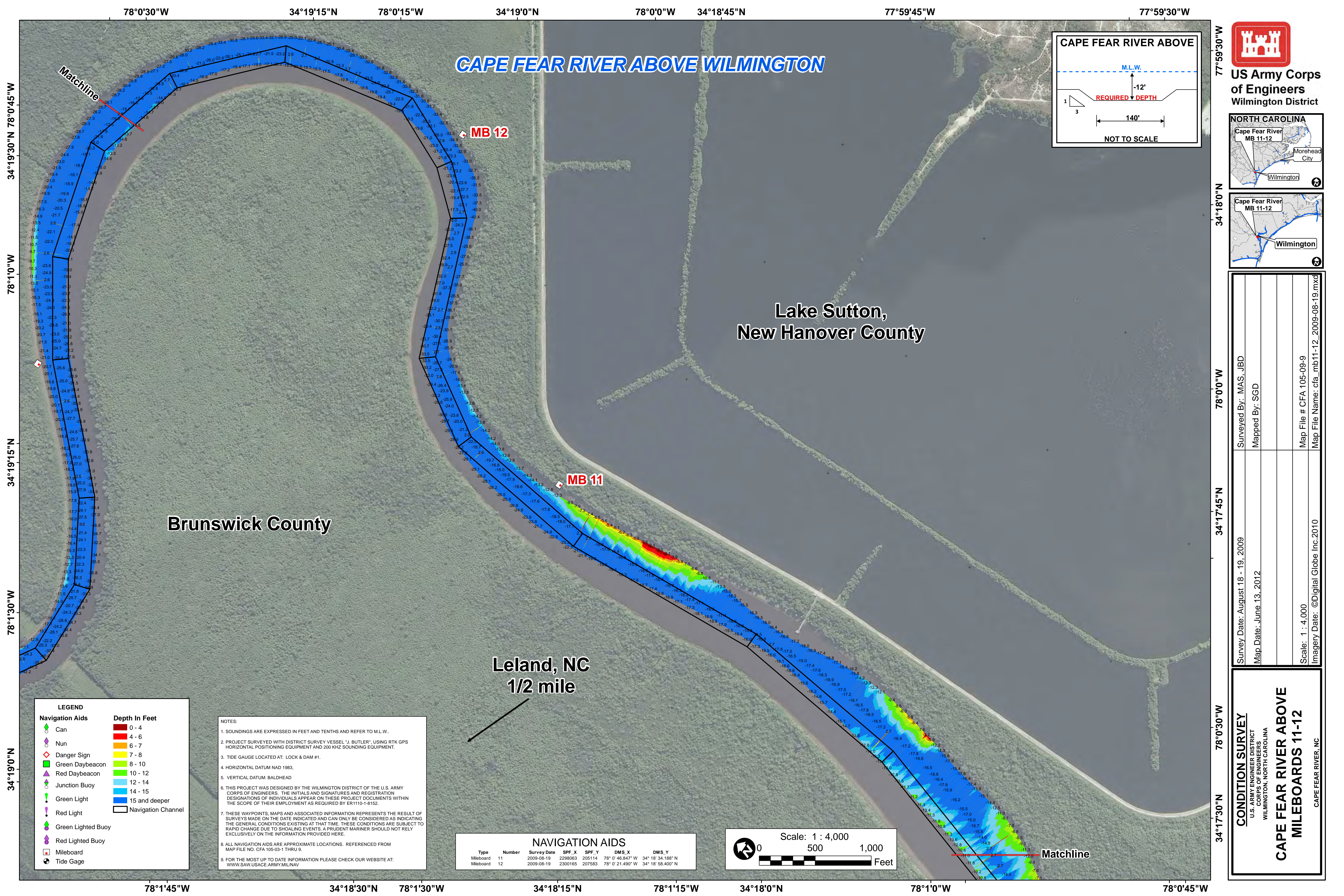
Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 13, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-10
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb7-10_2009-08-19.mxd

CONDITION SURVEY
U.S. ARMY CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

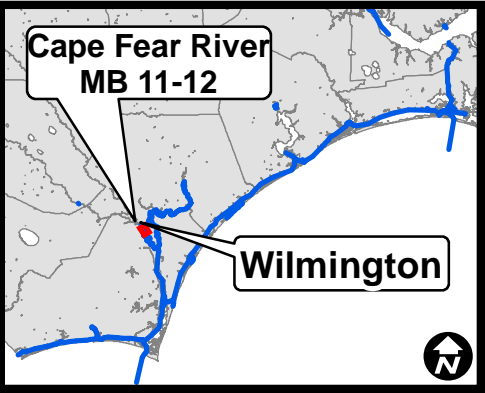
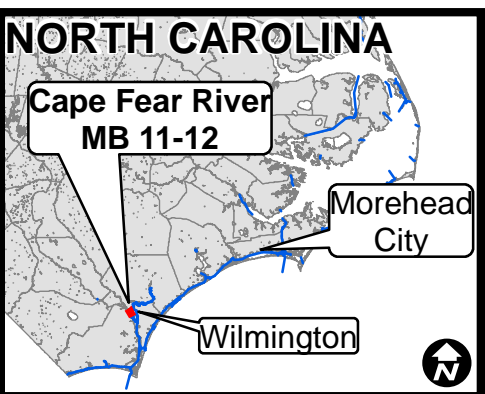
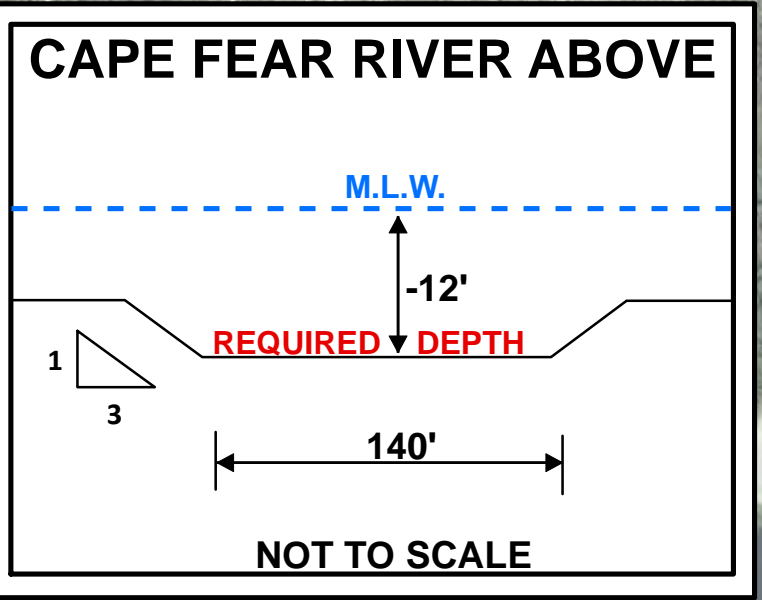
**CAPE FEAR RIVER ABOVE
MILEBOARDS 7-10**

CAPE FEAR RIVER, NC

78°1'30"W 34°17'15"N 78°1'15"W 34°17'0"N 78°1'0"W 78°0'45"W 34°16'15"N 78°0'30"W



CAPE FEAR RIVER ABOVE WILMINGTON



Lake Sutton,
New Hanover County

Brunswick County

Leland, NC
1/2 mile

LEGEND

Navigation Aids	Depth In Feet
Can	0 - 4
Nun	4 - 6
Danger Sign	6 - 7
Green Daybeacon	7 - 8
Red Daybeacon	8 - 10
Junction Buoy	10 - 12
Green Light	12 - 14
Red Light	14 - 15
Green Lighted Buoy	15 and deeper
Red Lighted Buoy	Navigation Channel
Mileboard	
Tide Gage	

NOTES:

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- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
- VERTICAL DATUM: BALDHEAD
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NAVIGATION AIDS

Type	Number	Survey Date	SPF X	SPF Y	DMS X	DMS Y
Mileboard	11	2009-08-19	2298063	205114	78° 0' 46.847" W	34° 18' 34.188" N
Mileboard	12	2009-08-19	2300165	207583	78° 0' 21.490" W	34° 18' 58.400" N



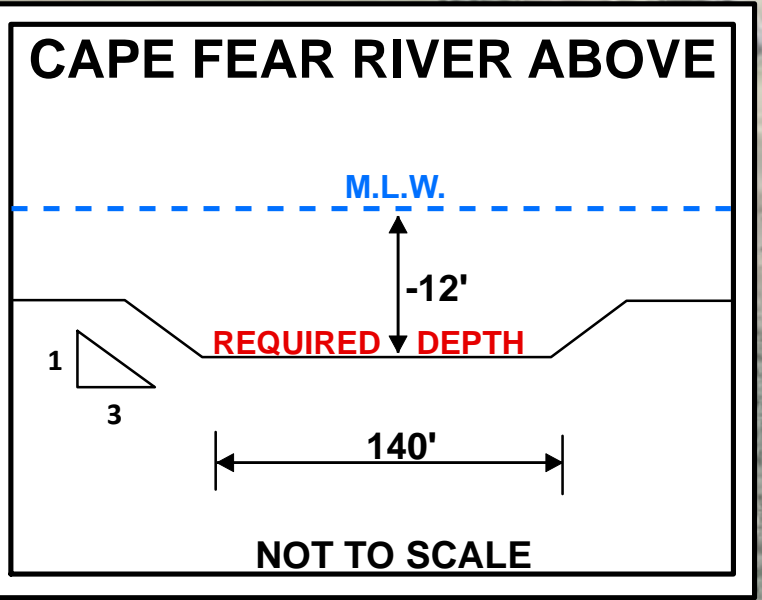
Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 13, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-9
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb11-12_2009-08-19.mxd

CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

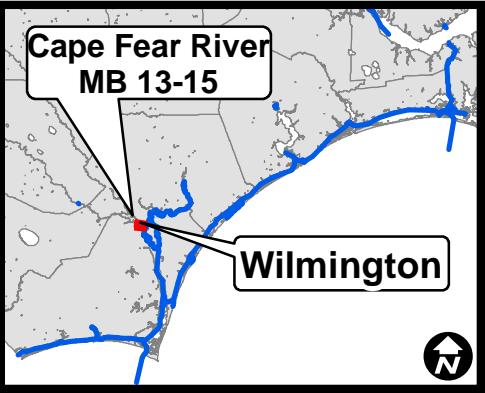
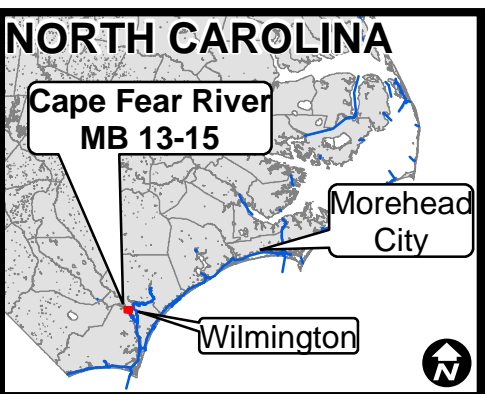
**CAPE FEAR RIVER ABOVE
MILEBOARDS 11-12**

CAPE FEAR RIVER, NC

CAPE FEAR RIVER ABOVE WILMINGTON



US Army Corps of Engineers
Wilmington District



Pender County

Brunswick County

Navassa NC
Approximately 3/4 mile

LEGEND

Navigation Aids

- Can
- Nun
- Danger Sign
- Green Daybeacon
- Red Daybeacon
- Junction Buoy
- Green Light
- Red Light
- Green Lighted Buoy
- Red Lighted Buoy
- Mileboard
- Tide Gage

Depth In Feet

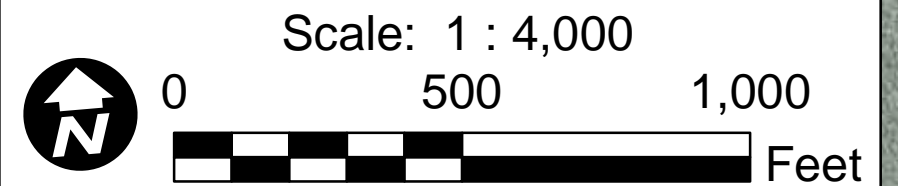
- 0 - 4
- 4 - 6
- 6 - 7
- 7 - 8
- 8 - 10
- 10 - 12
- 12 - 14
- 14 - 15
- 15 and deeper
- Navigation Channel

NOTES:

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- VERTICAL DATUM: BALDHEAD
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NAVIGATION AIDS

Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	13	2009-08-19	2296340	209573	78° 1' 6.861" W	34° 19' 18.457" N
Mileboard	14	2009-08-19	2294257	210010	78° 1' 31.639" W	34° 19' 22.988" N
Mileboard	15	2009-08-19	2290991	213866	78° 2' 10.129" W	34° 20' 1.437" N

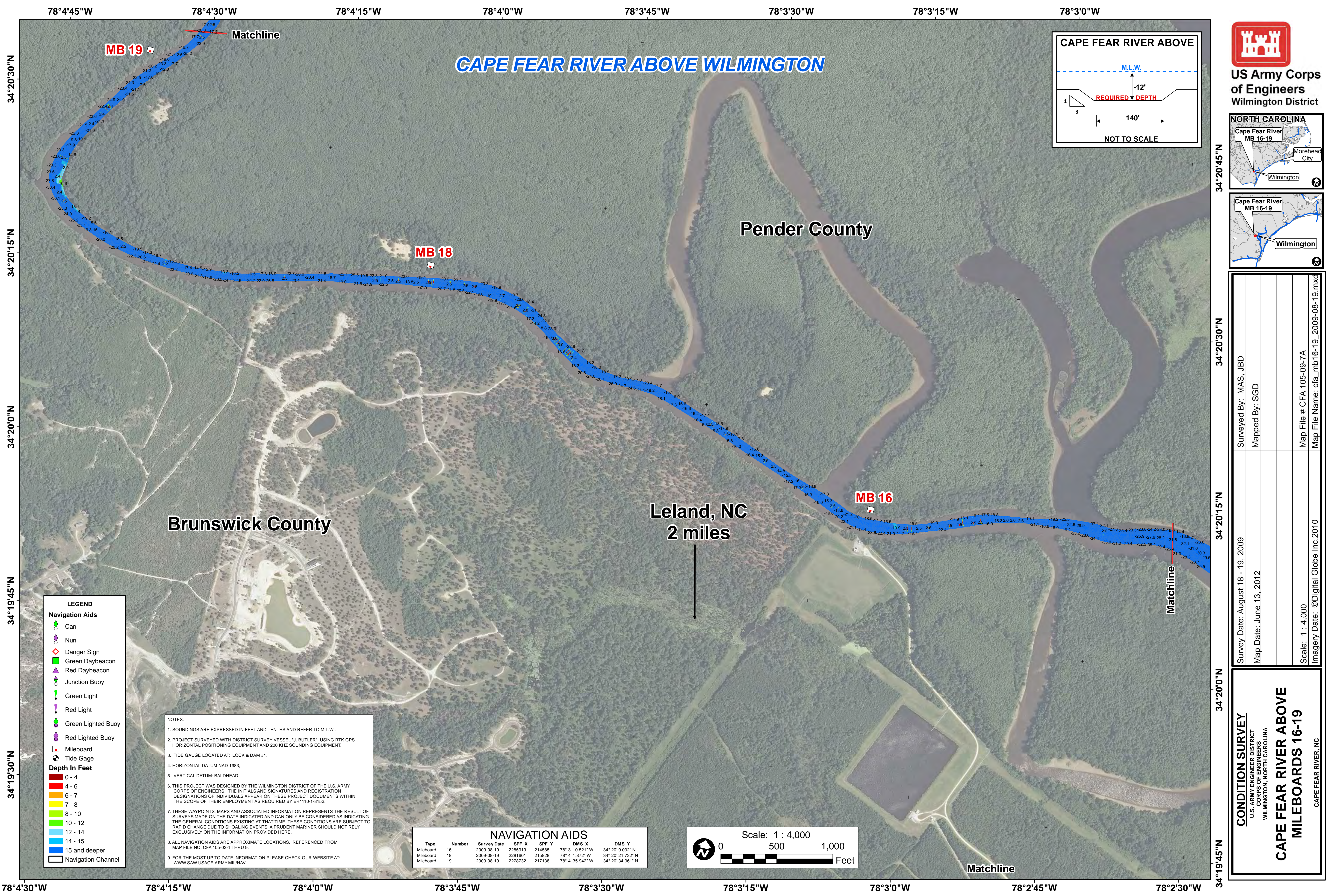


Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 13, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-8
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb13-15_2009-08-19.mxd

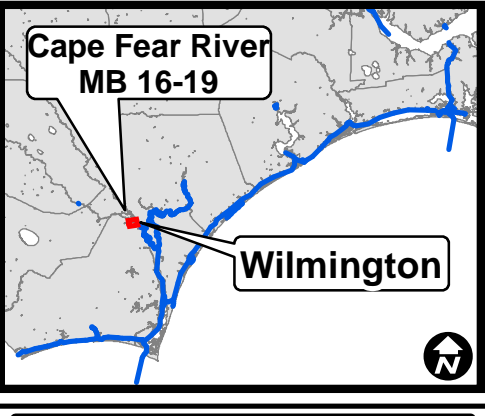
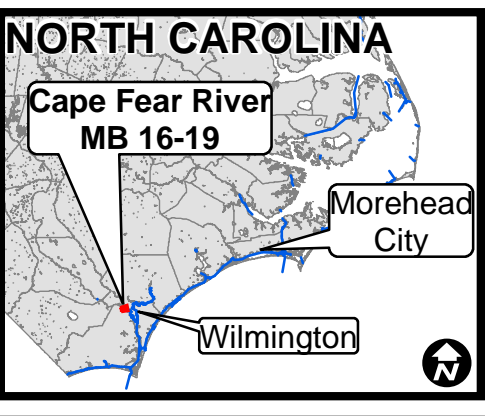
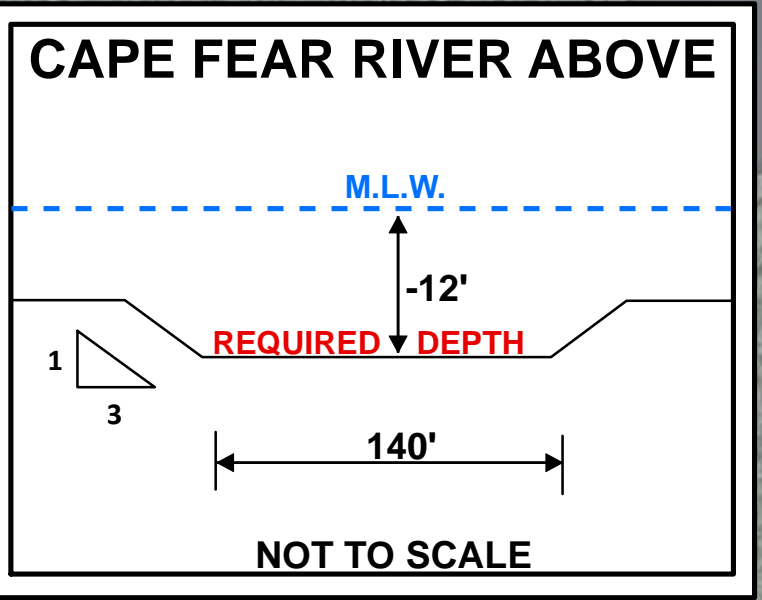
CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
WILMINGTON, NORTH CAROLINA

**CAPE FEAR RIVER ABOVE
MILEBOARDS 13-15**

CAPE FEAR RIVER, NC



CAPE FEAR RIVER ABOVE WILMINGTON



Brunswick County

Pender County

Leland, NC
2 miles

LEGEND

Navigation Aids

- Can
- Nun
- Danger Sign
- Green Daybeacon
- Red Daybeacon
- Junction Buoy
- Green Light
- Red Light
- Green Lighted Buoy
- Red Lighted Buoy
- Mileboard
- Tide Gage

Depth In Feet

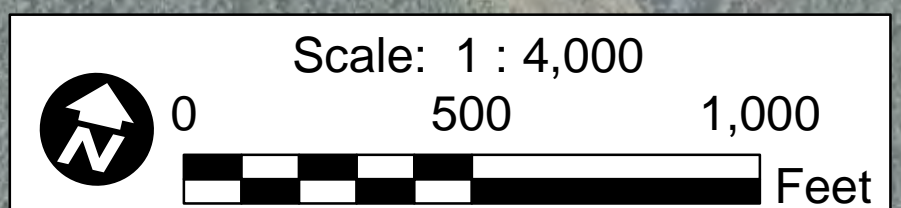
- 0 - 4
- 4 - 6
- 6 - 7
- 7 - 8
- 8 - 10
- 10 - 12
- 12 - 14
- 14 - 15
- 15 and deeper
- Navigation Channel

NOTES:

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- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
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NAVIGATION AIDS

Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	16	2009-08-19	2285919	214585	78° 3' 10.521" W	34° 20' 9.032" N
Mileboard	18	2009-08-19	2281601	215928	78° 4' 1.872" W	34° 20' 21.732" N
Mileboard	19	2009-08-19	2278732	217138	78° 4' 35.942" W	34° 20' 34.961" N



Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 13, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-7A
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb16-19_2009-08-19.mxd

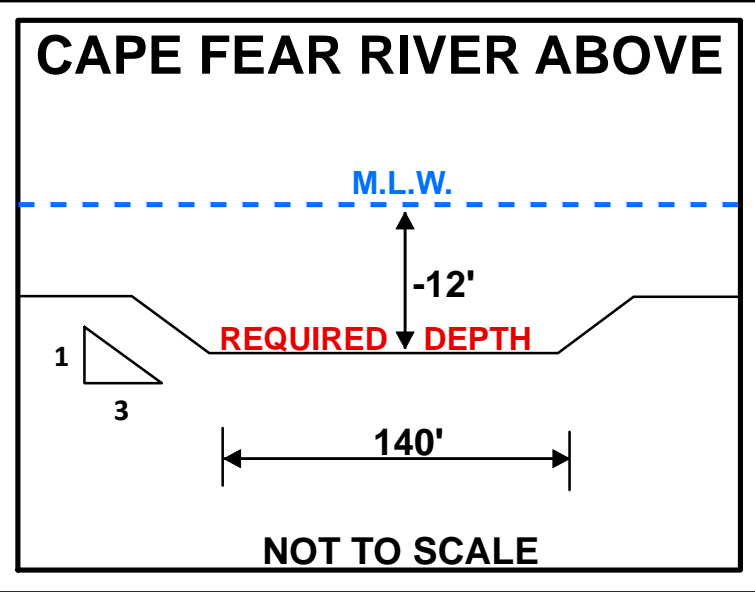
CONDITION SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

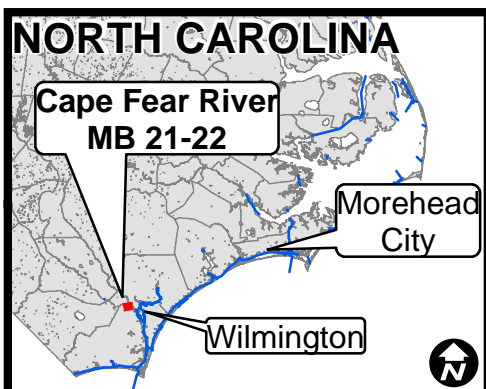
**CAPE FEAR RIVER ABOVE
MILEBOARDS 16-19**

CAPE FEAR RIVER, NC

CAPE FEAR RIVER ABOVE WILMINGTON



**US Army Corps
of Engineers**
Wilmington District



Pender County

Brunswick County

Leland, NC
2 miles

LEGEND	
Navigation Aids	
	Can
	Nun
	Danger Sign
	Green Daybeacon
	Red Daybeacon
	Junction Buoy
	Green Light
	Red Light
	Green Lighted Buoy
	Red Lighted Buoy
	Mileboard
	Tide Gage
Depth In Feet	
	0 - 4
	4 - 6
	6 - 7
	7 - 8
	8 - 10
	10 - 12
	12 - 14
	14 - 15
	15 and deeper
	Navigation Channel

NOTES:

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- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
- VERTICAL DATUM: BALDHEAD
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NAVIGATION AIDS						
Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	21	2009-08-19	2273344	221948	78° 5' 39.668" W	34° 21' 23.032" N
Mileboard	22	2009-08-19	2269169	223003	78° 6' 29.346" W	34° 21' 33.836" N

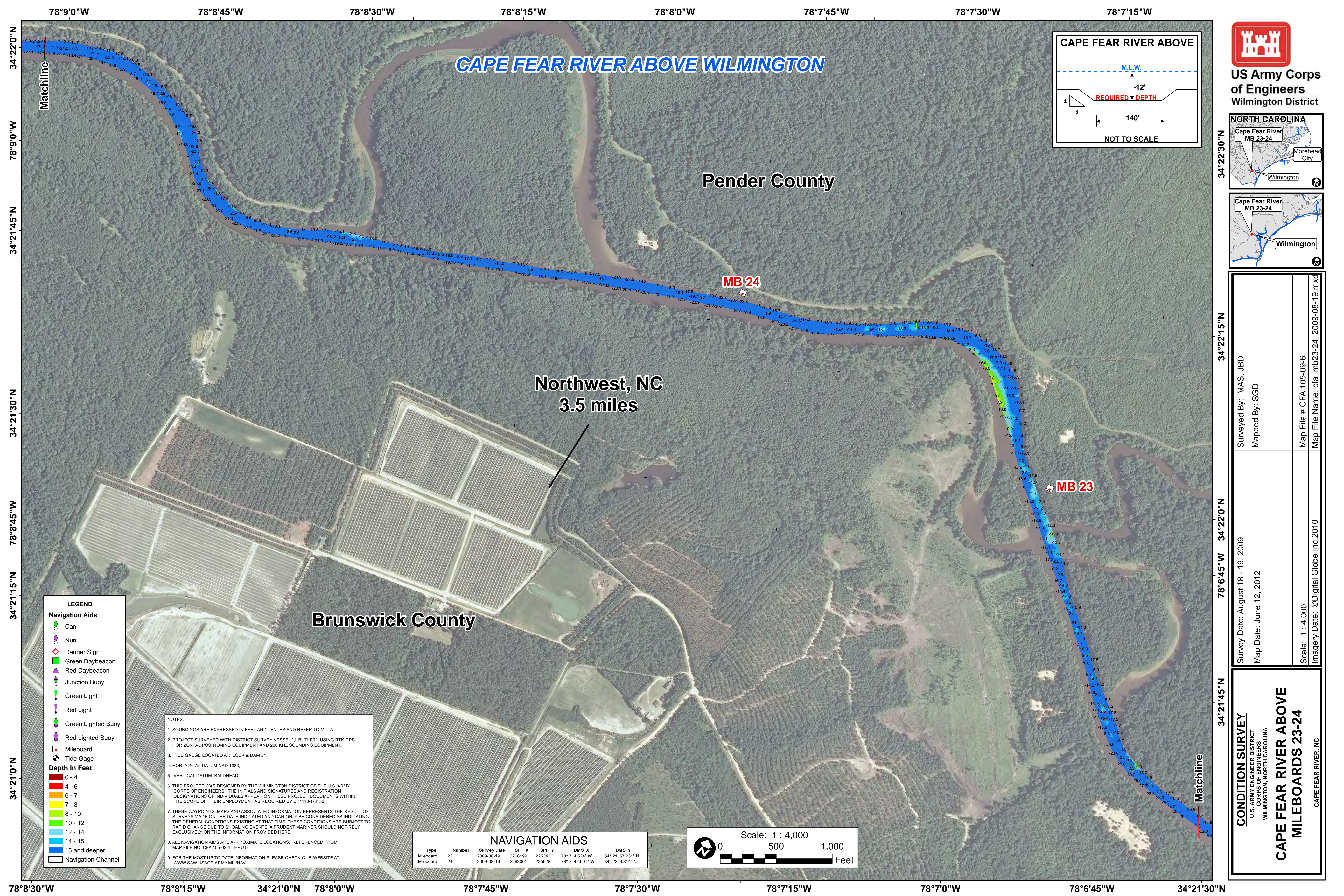


Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 12, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-7
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb21-22_2009-08-19.mxd

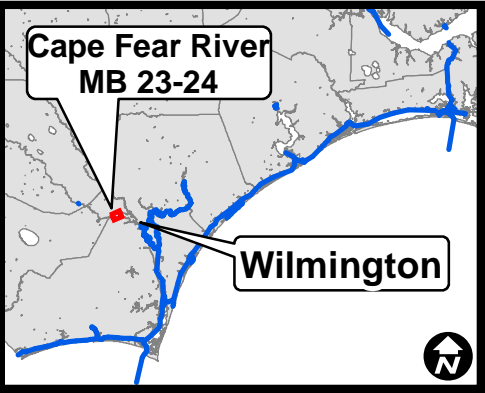
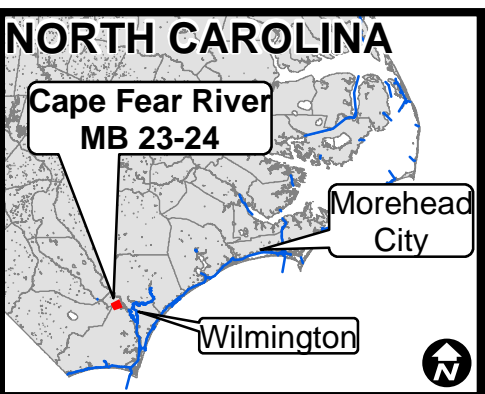
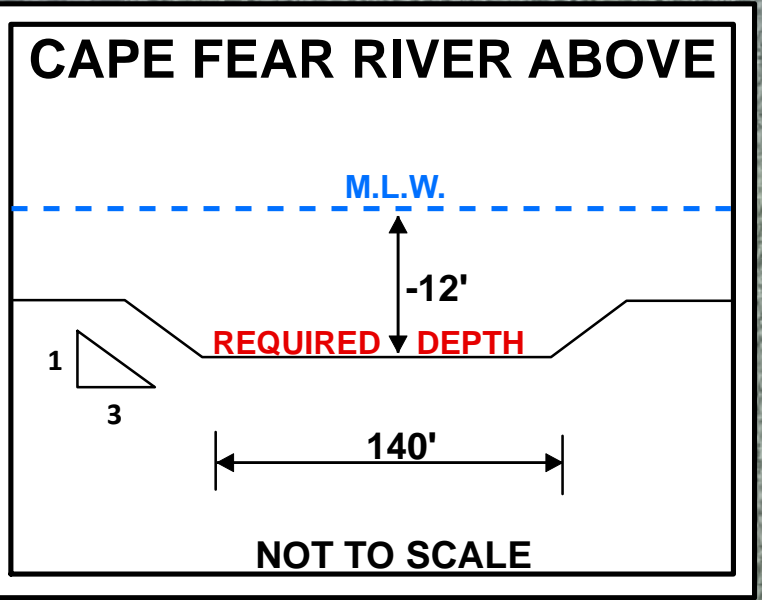
CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

**CAPE FEAR RIVER ABOVE
MILEBOARDS 21-22**

CAPE FEAR RIVER, NC



CAPE FEAR RIVER ABOVE WILMINGTON



Northwest, NC
3.5 miles

Brunswick County

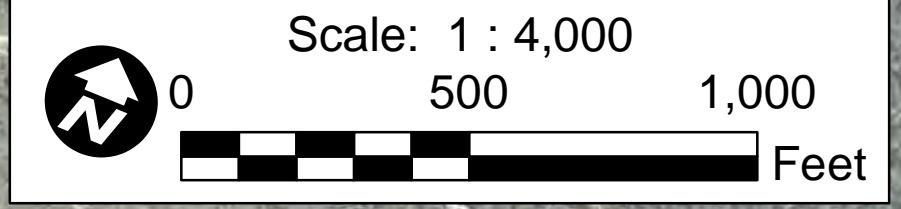
Pender County

- LEGEND**
- Navigation Aids
 - Can
 - Nun
 - Danger Sign
 - Green Daybeacon
 - Red Daybeacon
 - Junction Buoy
 - Green Light
 - Red Light
 - Green Lighted Buoy
 - Red Lighted Buoy
 - Depth In Feet
 - 0 - 4
 - 4 - 6
 - 6 - 7
 - 7 - 8
 - 8 - 10
 - 10 - 12
 - 12 - 14
 - 14 - 15
 - 15 and deeper
 - Navigation Channel

NOTES:

- SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO M.L.W..
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
- VERTICAL DATUM: BALDHEAD
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
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- ALL NAVIGATION AIDS ARE APPROXIMATE LOCATIONS. REFERENCED FROM MAP FILE NO. CFA 105-03-1 THRU 9.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL/NAV

NAVIGATION AIDS						
Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	23	2009-08-19	2266199	225342	78° 7' 4.524" W	34° 21' 57.231" N
Mileboard	24	2009-08-19	2263001	225928	78° 7' 42.607" W	34° 22' 3.314" N



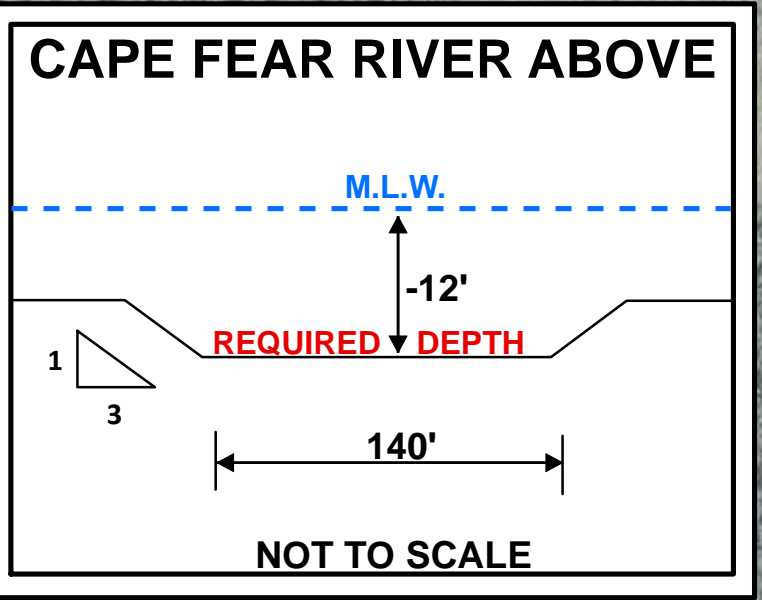
Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 12, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-6
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb23-24_2009-08-19.mxd

CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
WILMINGTON, NORTH CAROLINA

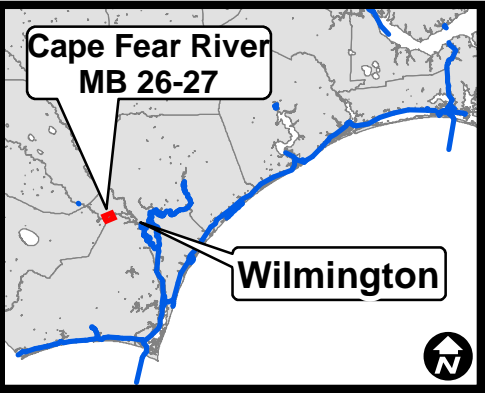
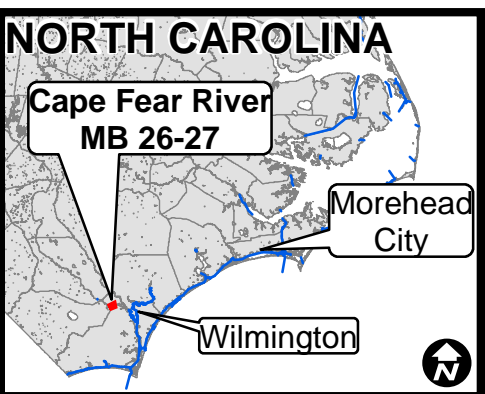
**CAPE FEAR RIVER ABOVE
MILEBOARDS 23-24**

CAPE FEAR RIVER, NC

CAPE FEAR RIVER ABOVE WILMINGTON



US Army Corps of Engineers
Wilmington District



Pender County

Columbus County

Brunswick County

MB 26

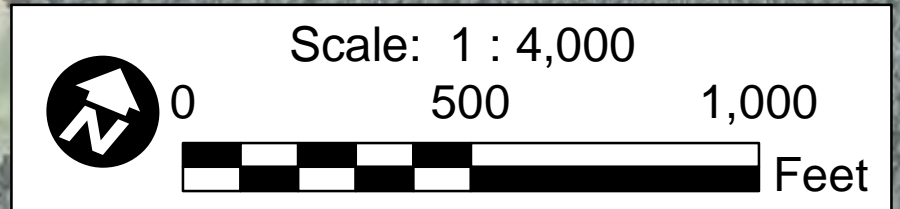
MB 27

LEGEND

Navigation Aids	
	Can
	Nun
	Danger Sign
	Green Daybeacon
	Red Daybeacon
	Junction Buoy
	Green Light
	Red Light
	Green Lighted Buoy
	Red Lighted Buoy
	Mileboard
	Tide Gage
Depth In Feet	
	0 - 4
	4 - 6
	6 - 7
	7 - 8
	8 - 10
	10 - 12
	12 - 14
	14 - 15
	15 and deeper
	Navigation Channel
	County_Line

NOTES:

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- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
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- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL/NAV



NAVIGATION AIDS

Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	26	2009-08-19	2255987	225625	78° 9' 6.305" W	34° 22' 0.910" N
Mileboard	27	2009-08-19	2253304	222167	78° 9' 38.657" W	34° 21' 26.938" N

Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 8, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-5
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb26-27_2009-08-19.mxd

CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

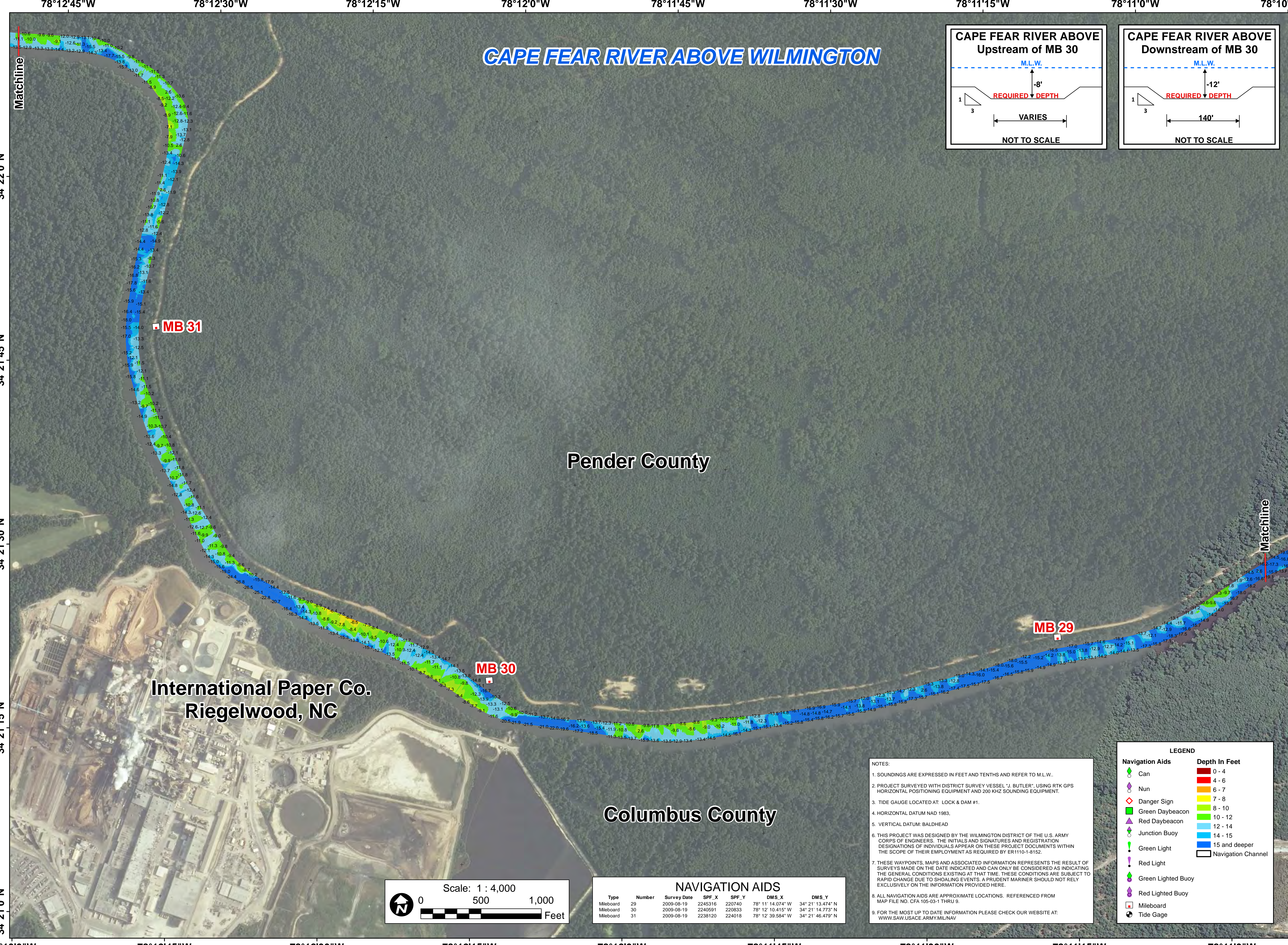
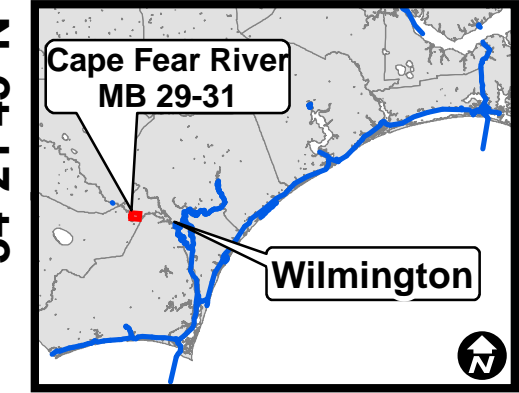
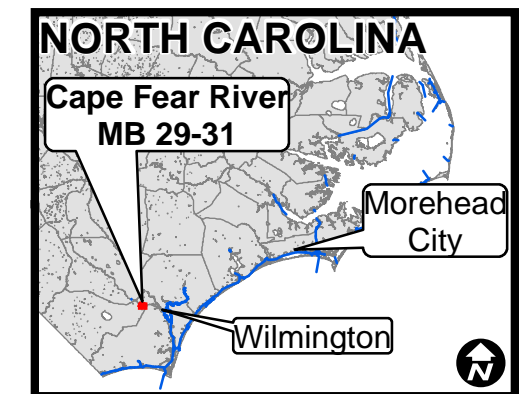
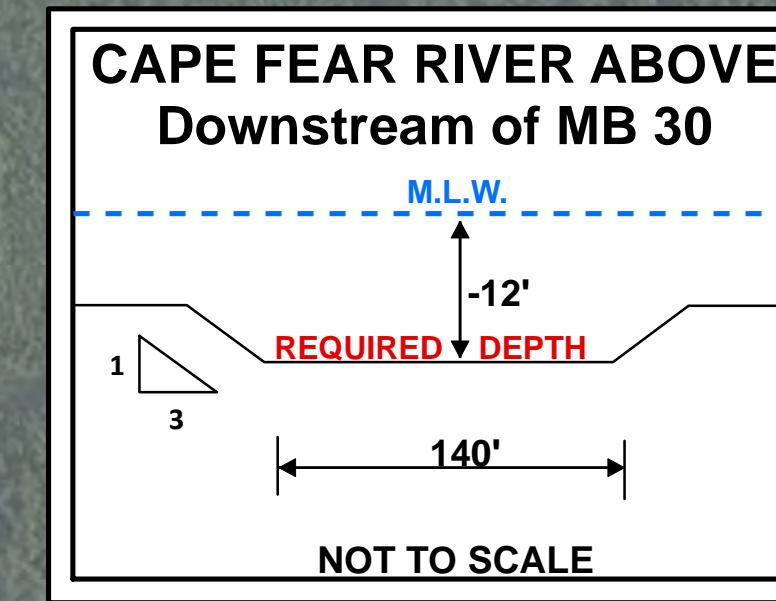
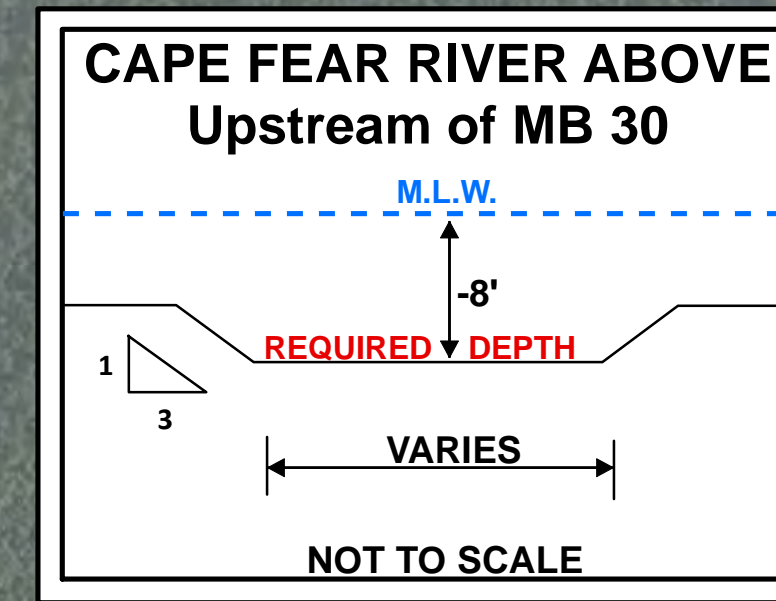
**CAPE FEAR RIVER ABOVE
MILEBOARDS 26-27**

CAPE FEAR RIVER, NC

78°11'0"W 78°10'45"W 78°10'30"W 78°10'15"W 78°10'0"W 78°9'45"W 78°9'30"W 78°9'15"W 78°9'0"W 78°8'45"W

34°21'30"N 34°21'15"N 34°21'0"N 34°20'45"N 34°20'30"N 34°20'15"N 34°20'0"N

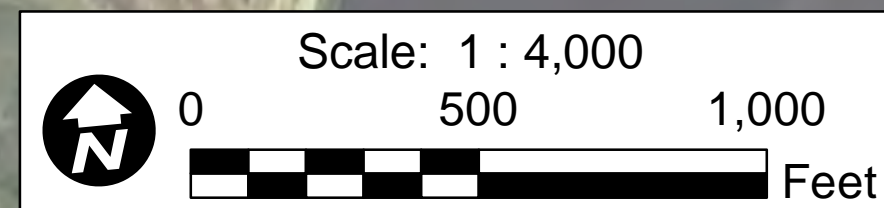
CAPE FEAR RIVER ABOVE WILMINGTON



Pender County

International Paper Co.
Riegelwood, NC

Columbus County



NAVIGATION AIDS						
Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	29	2009-08-19	2245316	220740	78° 11' 14.074" W	34° 21' 13.474" N
Mileboard	30	2009-08-19	2240591	220833	78° 12' 10.415" W	34° 21' 14.773" N
Mileboard	31	2009-08-19	2238120	224018	78° 12' 39.584" W	34° 21' 46.479" N

NOTES:

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- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
- VERTICAL DATUM: BALDHEAD
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- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL/NAV

LEGEND

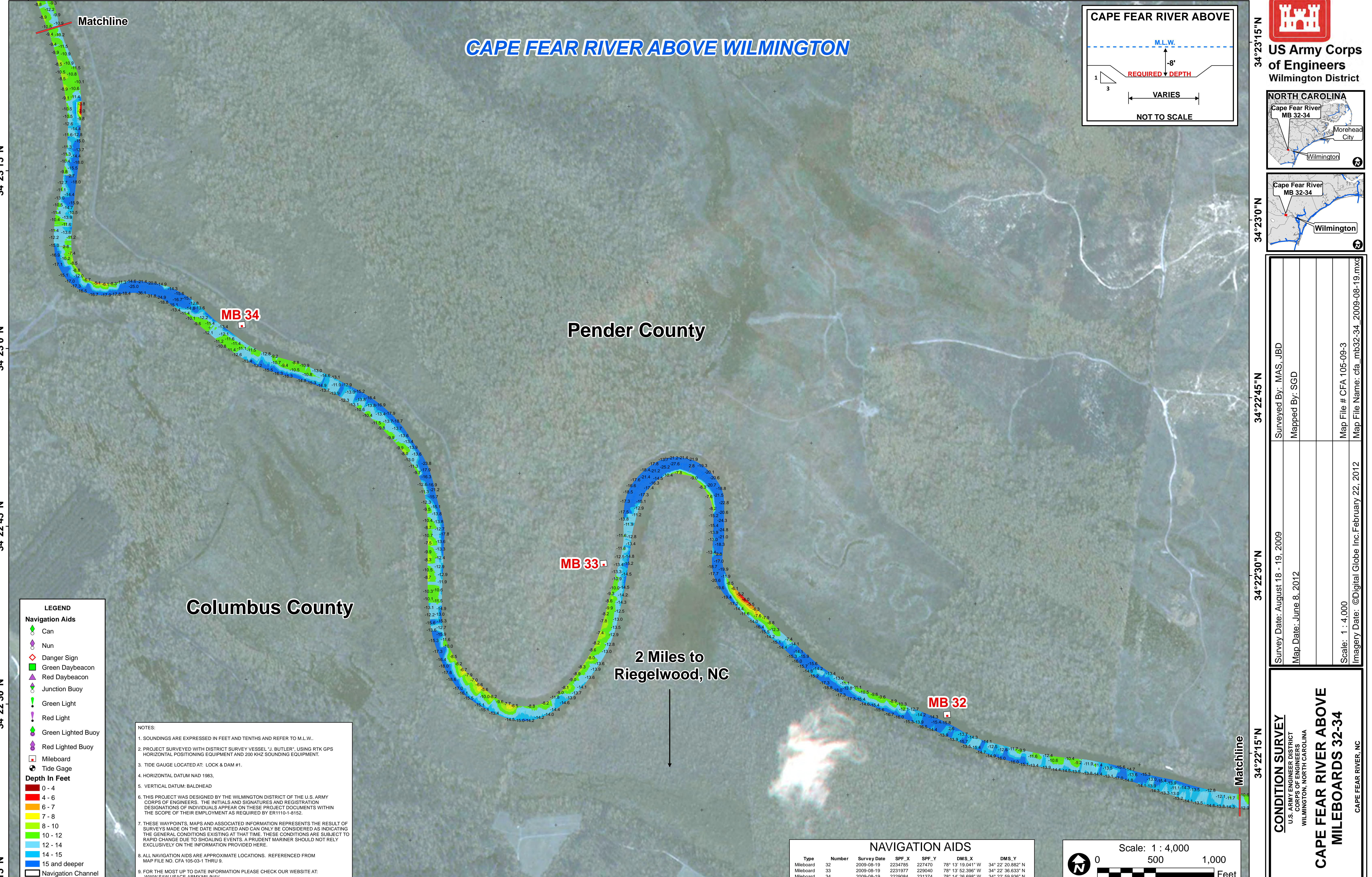
Navigation Aids	Depth In Feet
Can	0 - 4
Nun	4 - 6
Danger Sign	6 - 7
Green Daybeacon	7 - 8
Red Daybeacon	8 - 10
Junction Buoy	10 - 12
Green Light	12 - 14
Red Light	14 - 15
Green Lighted Buoy	15 and deeper
Red Lighted Buoy	Navigation Channel
Mileboard	
Tide Gage	

Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 8, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA_105-09-4
Imagery Date: ©Digital Globe Inc.2010	Map File Name: cfa_mb29-31_2009-08-19.mxd

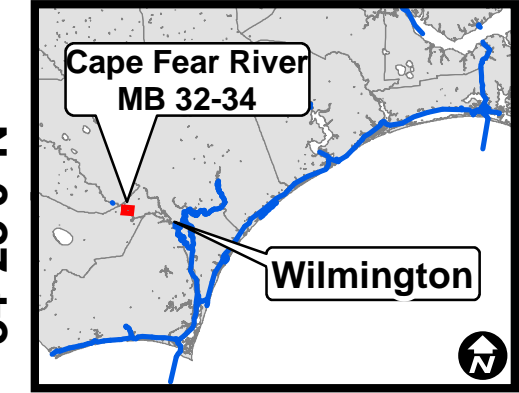
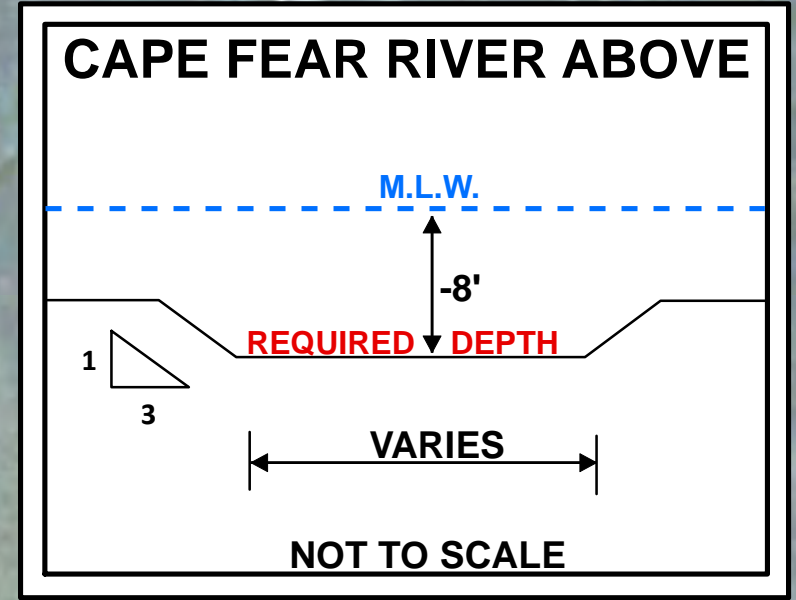
CONDITION SURVEY
U.S. ARMY CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

**CAPE FEAR RIVER ABOVE
MILEBOARDS 29-31**
CAPE FEAR RIVER, NC

78°14'45"W 78°14'30"W 78°14'15"W 78°14'0"W 78°13'45"W 78°13'30"W 78°13'15"W 78°13'0"W 78°12'45"W



CAPE FEAR RIVER ABOVE WILMINGTON



Pender County

Columbus County

2 Miles to Riegelwood, NC

LEGEND

Navigation Aids

- Can
- Nun
- Danger Sign
- Green Daybeacon
- Red Daybeacon
- Junction Buoy
- Green Light
- Red Light
- Green Lighted Buoy
- Red Lighted Buoy
- Mileboard
- Tide Gage

Depth In Feet

- 0 - 4
- 4 - 6
- 6 - 7
- 7 - 8
- 8 - 10
- 10 - 12
- 12 - 14
- 14 - 15
- 15 and deeper

Navigation Channel

NOTES:

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- ALL NAVIGATION AIDS ARE APPROXIMATE LOCATIONS. REFERENCED FROM MAP FILE NO. CFA 105-09-3 THRU 9.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL/NAV

NAVIGATION AIDS

Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	32	2009-08-19	2234765	227470	78° 13' 19.041" W	34° 22' 20.882" N
Mileboard	33	2009-08-19	2231977	229040	78° 13' 52.396" W	34° 22' 36.633" N
Mileboard	34	2009-08-19	2229064	231374	78° 14' 26.696" W	34° 22' 59.936" N

Scale: 1 : 4,000

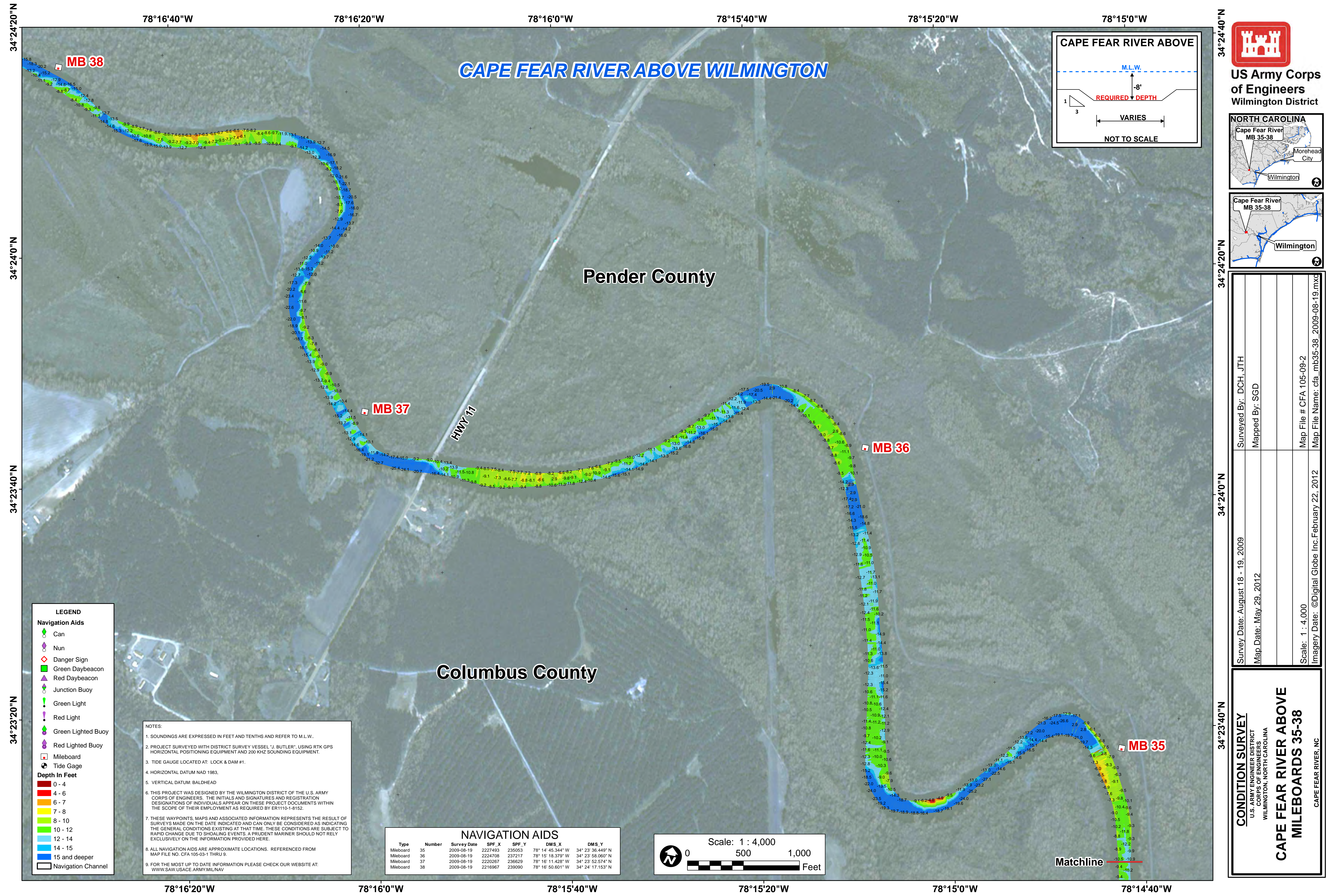
Survey Date: August 18 - 19, 2009	Surveyed By: MAS, JBD
Map Date: June 8, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-3
Imagery Date: ©Digital Globe Inc. February 22, 2012	Map File Name: cfa_mb32-34_2009-08-19.mxd

CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
WILMINGTON, NORTH CAROLINA

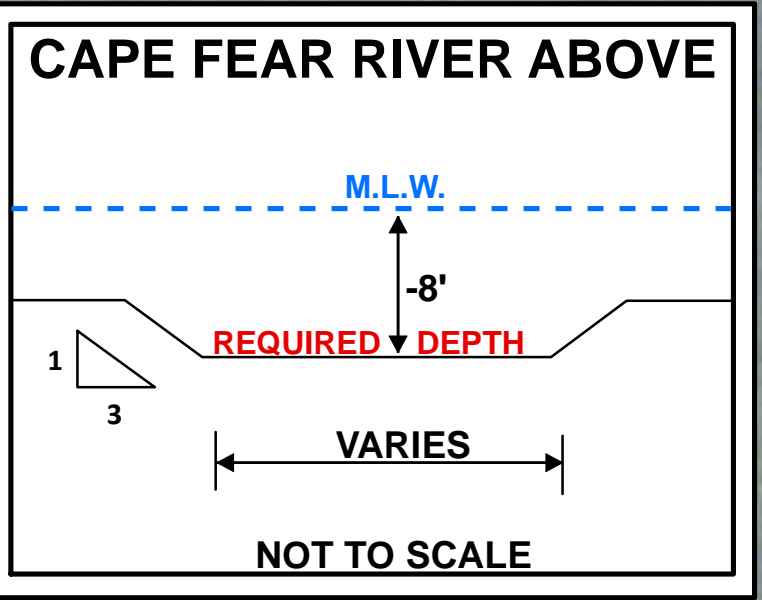
**CAPE FEAR RIVER ABOVE
MILEBOARDS 32-34**

CAPE FEAR RIVER, NC

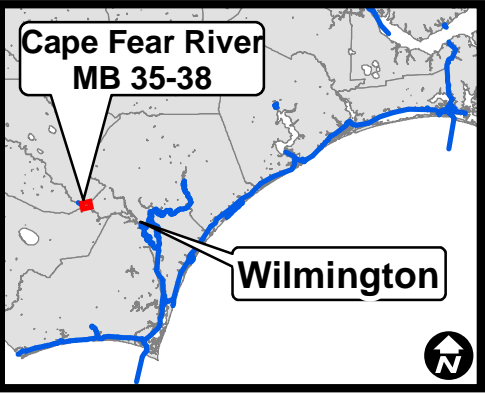
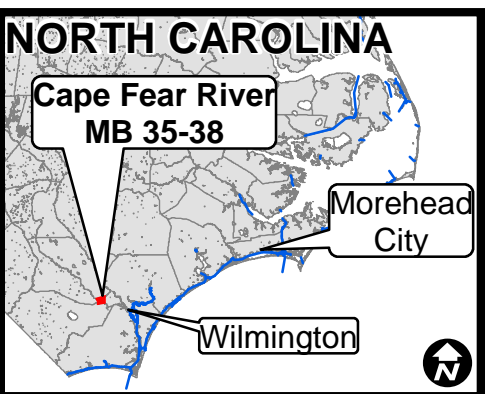
78°14'45"W 78°14'30"W 78°14'15"W 78°14'0"W 78°13'45"W 78°13'30"W 78°13'15"W 78°13'0"W 78°12'45"W



CAPE FEAR RIVER ABOVE WILMINGTON



US Army Corps of Engineers
Wilmington District



LEGEND

Navigation Aids

- Can
- Nun
- Danger Sign
- Green Daybeacon
- Red Daybeacon
- Junction Buoy
- Green Light
- Red Light
- Green Lighted Buoy
- Red Lighted Buoy
- Mileboard
- Tide Gage

Depth In Feet

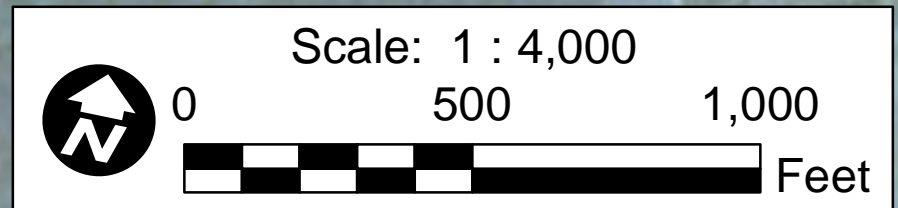
- 0 - 4
- 4 - 6
- 6 - 7
- 7 - 8
- 8 - 10
- 10 - 12
- 12 - 14
- 14 - 15
- 15 and deeper

Navigation Channel

NOTES:

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- TIDE GAUGE LOCATED AT: LOCK & DAM #1.
- HORIZONTAL DATUM NAD 1983.
- VERTICAL DATUM: BALDHEAD.
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NAVIGATION AIDS						
Type	Number	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Mileboard	35	2009-08-19	2227493	2350563	78° 14' 45.344" W	34° 23' 36.449" N
Mileboard	36	2009-08-19	2224708	2372171	78° 15' 18.379" W	34° 23' 58.060" N
Mileboard	37	2009-08-19	2220267	2366269	78° 16' 11.428" W	34° 23' 52.574" N
Mileboard	38	2009-08-19	2216967	2390980	78° 16' 50.601" W	34° 24' 17.153" N

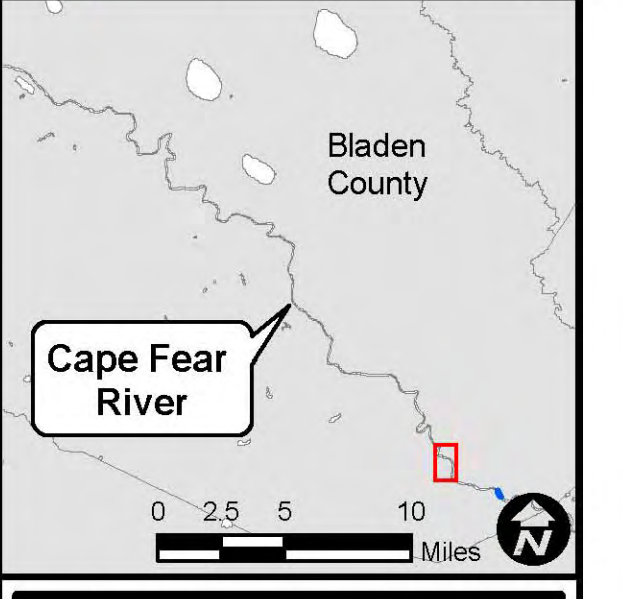
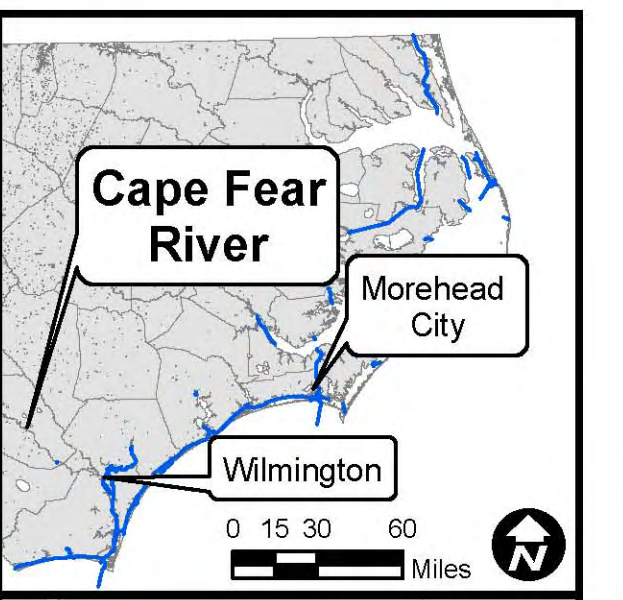
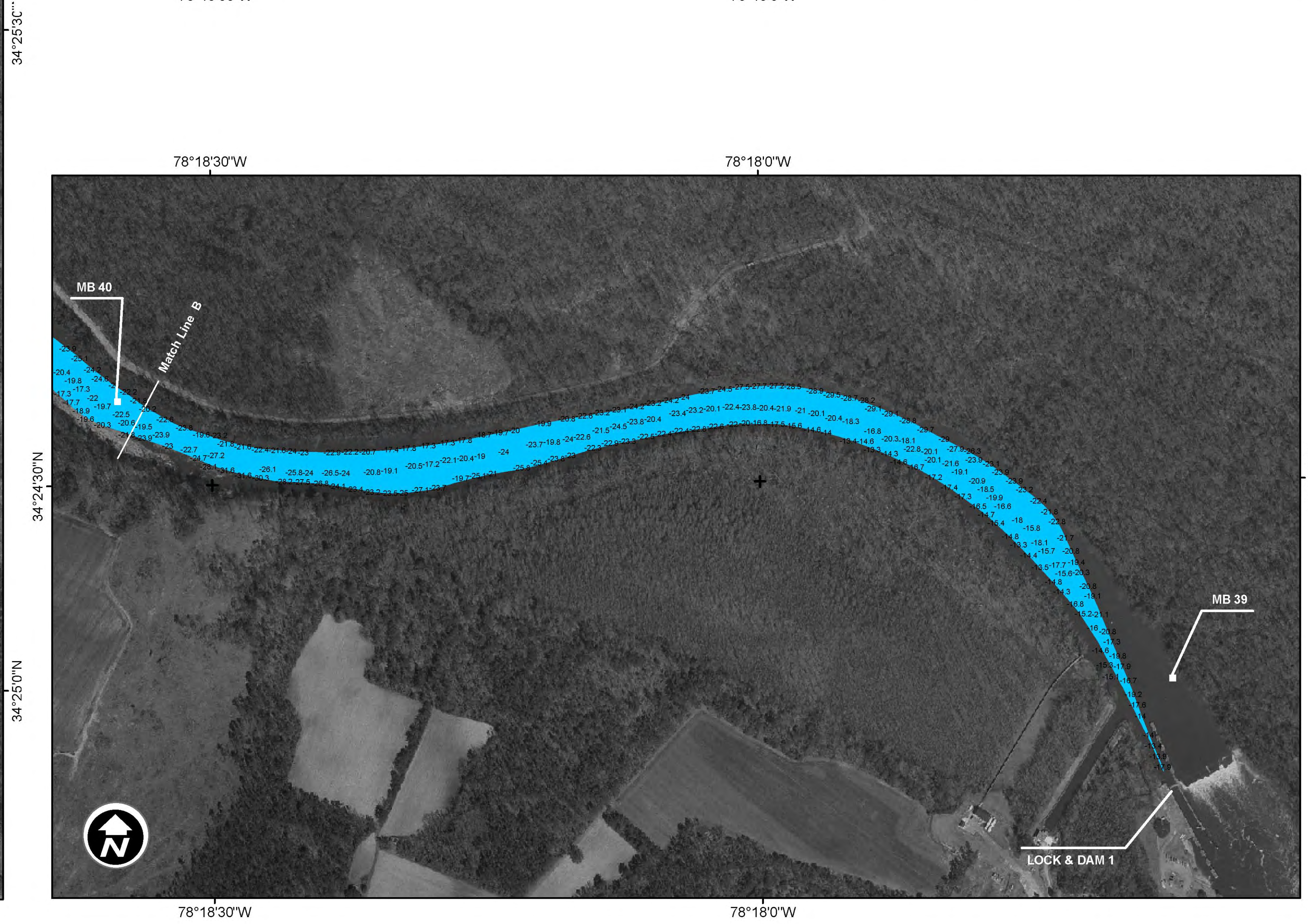
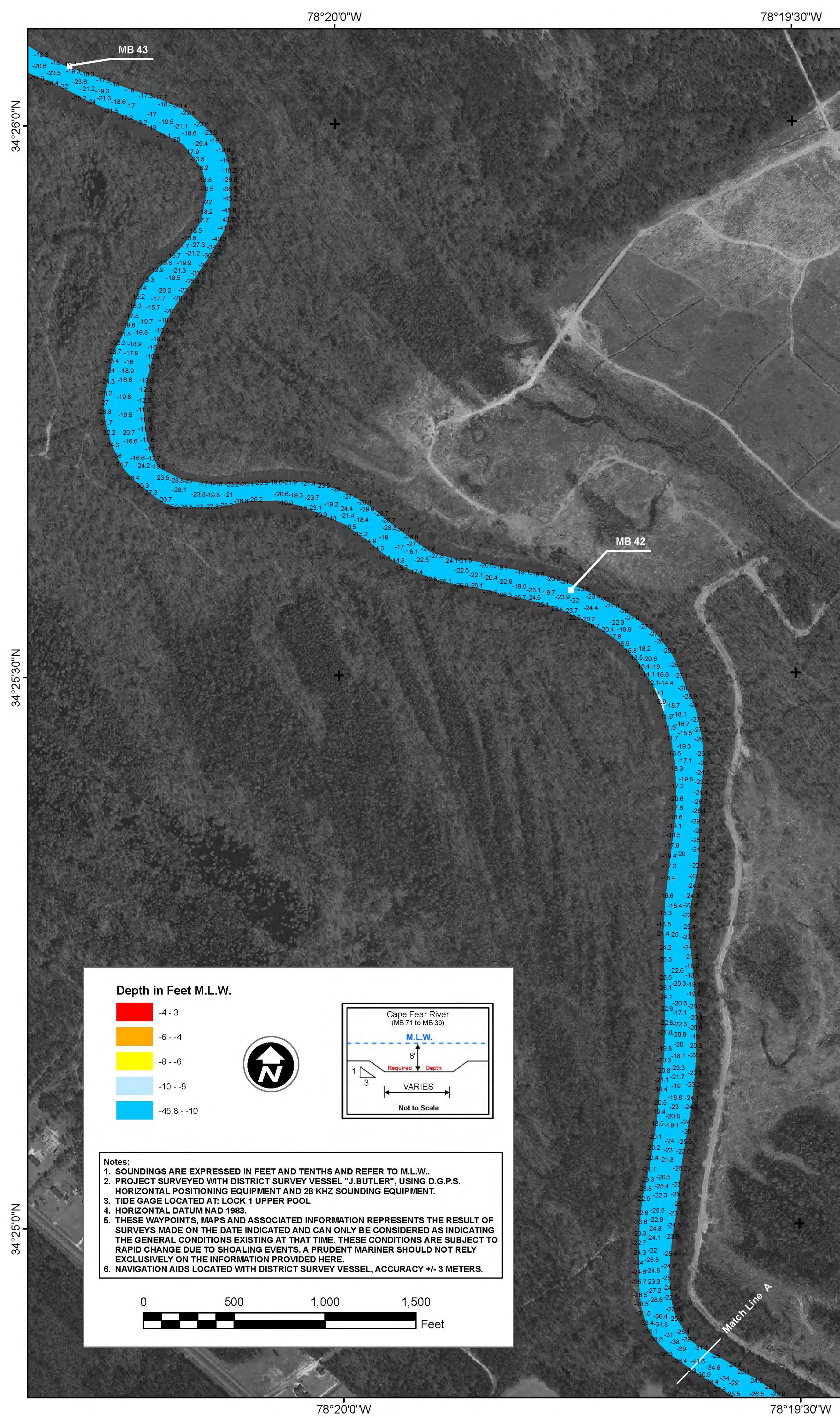


Survey Date: August 18 - 19, 2009	Surveyed By: DCH, JTH
Map Date: May 29, 2012	Mapped By: SGD
Scale: 1 : 4,000	Map File # CFA 105-09-2
Imagery Date: ©Digital Globe Inc. February 22, 2012	Map File Name: cfa_mb35-38_2009-08-19.mxd

CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
WILMINGTON, NORTH CAROLINA

**CAPE FEAR RIVER ABOVE
MILEBOARDS 35-38**

CAPE FEAR RIVER, NC


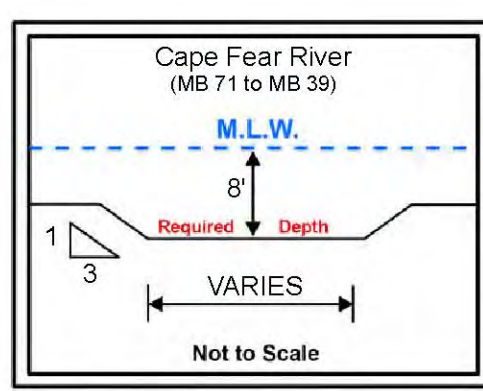


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Map Date:	October 9 2009
Imagery Date:	Unknown
Map File #	CFA 105-09-20
Map File Name:	cfa_mb39-43_2009_10_02cs_sk.mxd
Surveyed By:	MAS, JBD
Mapped By:	TH
Scale:	1:4000

CONDITION SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 WILMINGTON, NORTH CAROLINA
 MILE BOARD 39 TO 43
CAPE FEAR RIVER
ABOVE WILMINGTON


Depth in Feet M.L.W.

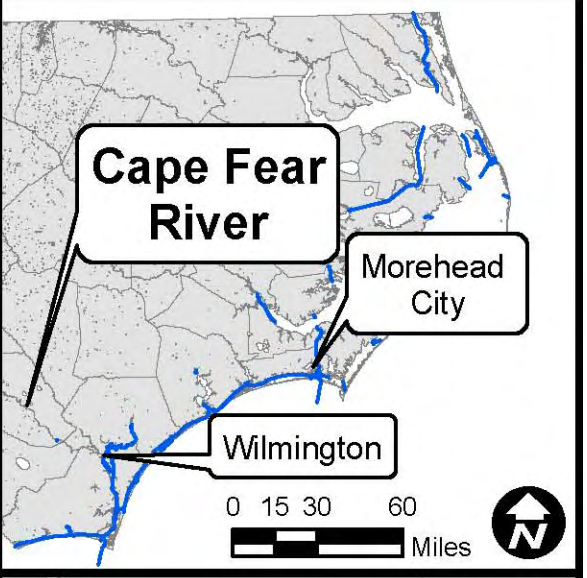
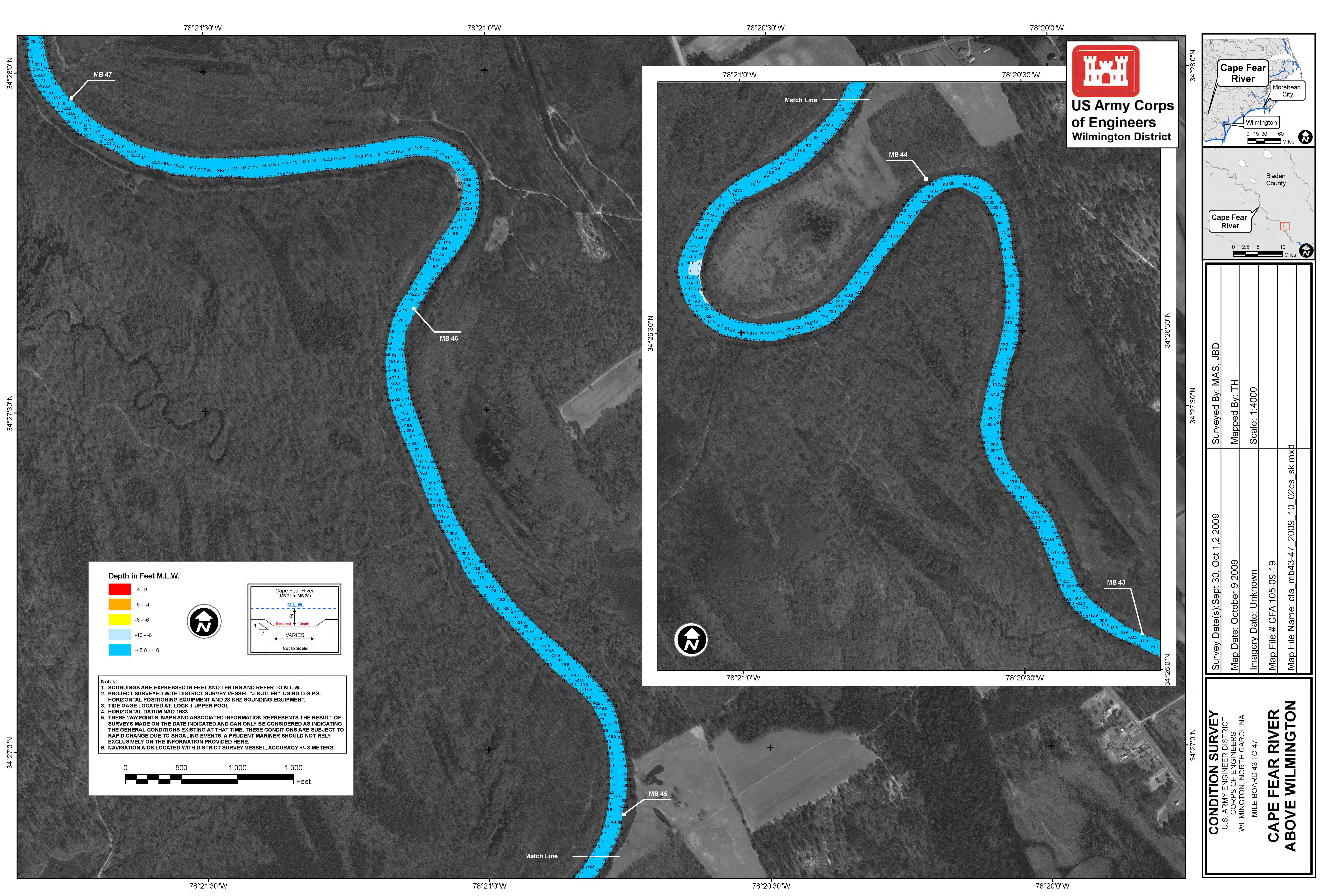
- 4 -3
- 6 -4
- 8 -6
- 10 -8
- 45.8 -10

Notes:

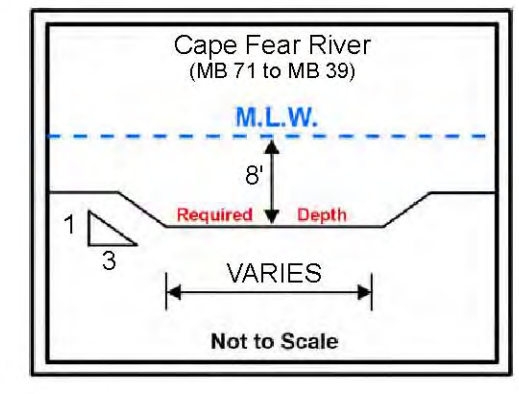
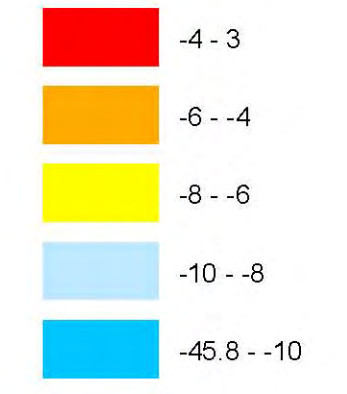
- SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO M.L.W.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J.BUTLER", USING D.G.P.S. HORIZONTAL POSITIONING EQUIPMENT AND 28 KHZ SOUNDING EQUIPMENT.
- TIDE GAGE LOCATED AT: LOCK 1 UPPER POOL
- HORIZONTAL DATUM NAD 1983.
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- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.





Survey Date(s): Sept 30, Oct 1, 2, 2009	Surveyed By: MAS, JBD
Map Date: October 9, 2009	Mapped By: TH
Imagery Date: Unknown	Scale: 1:4000
Map File # CFA 105-09-19	
Map File Name: cfa_mb43-47_2009_10_02cs_sk.mxd	

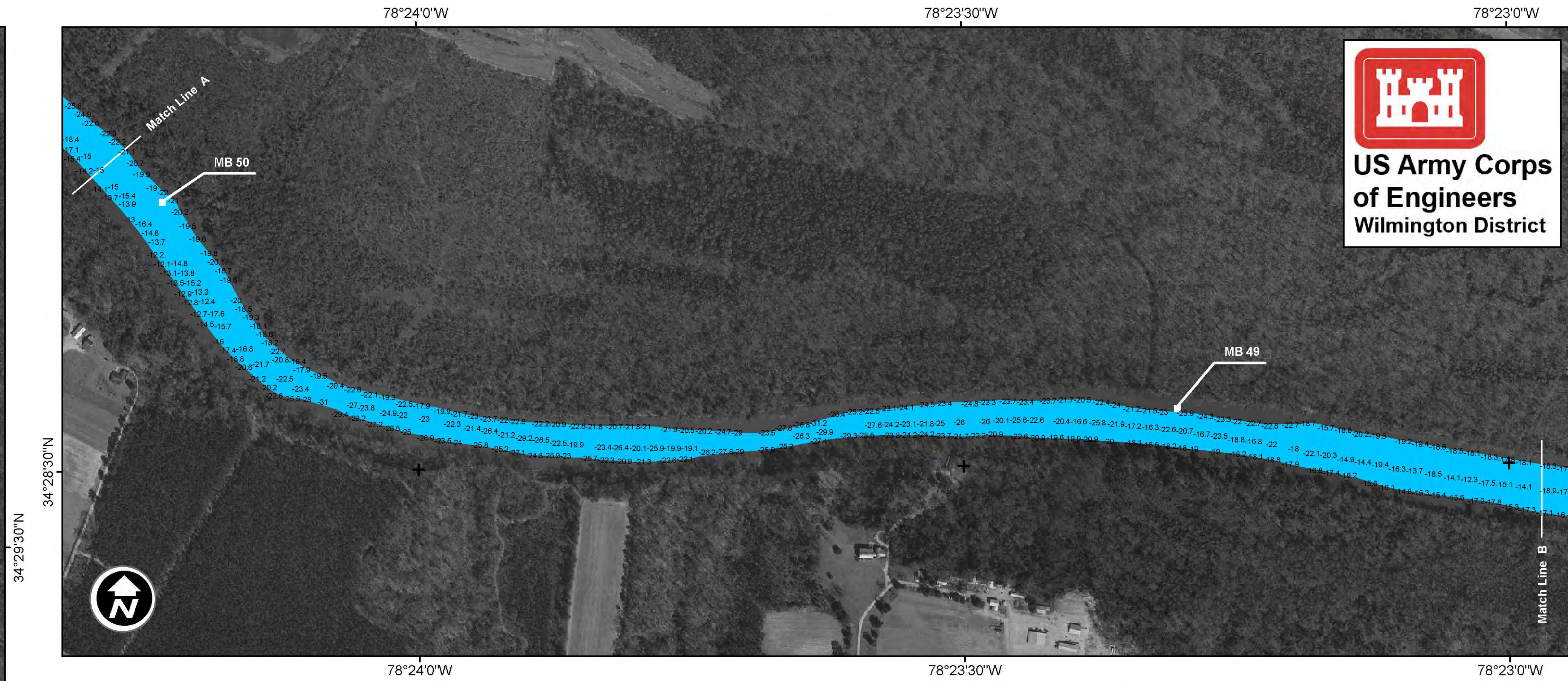
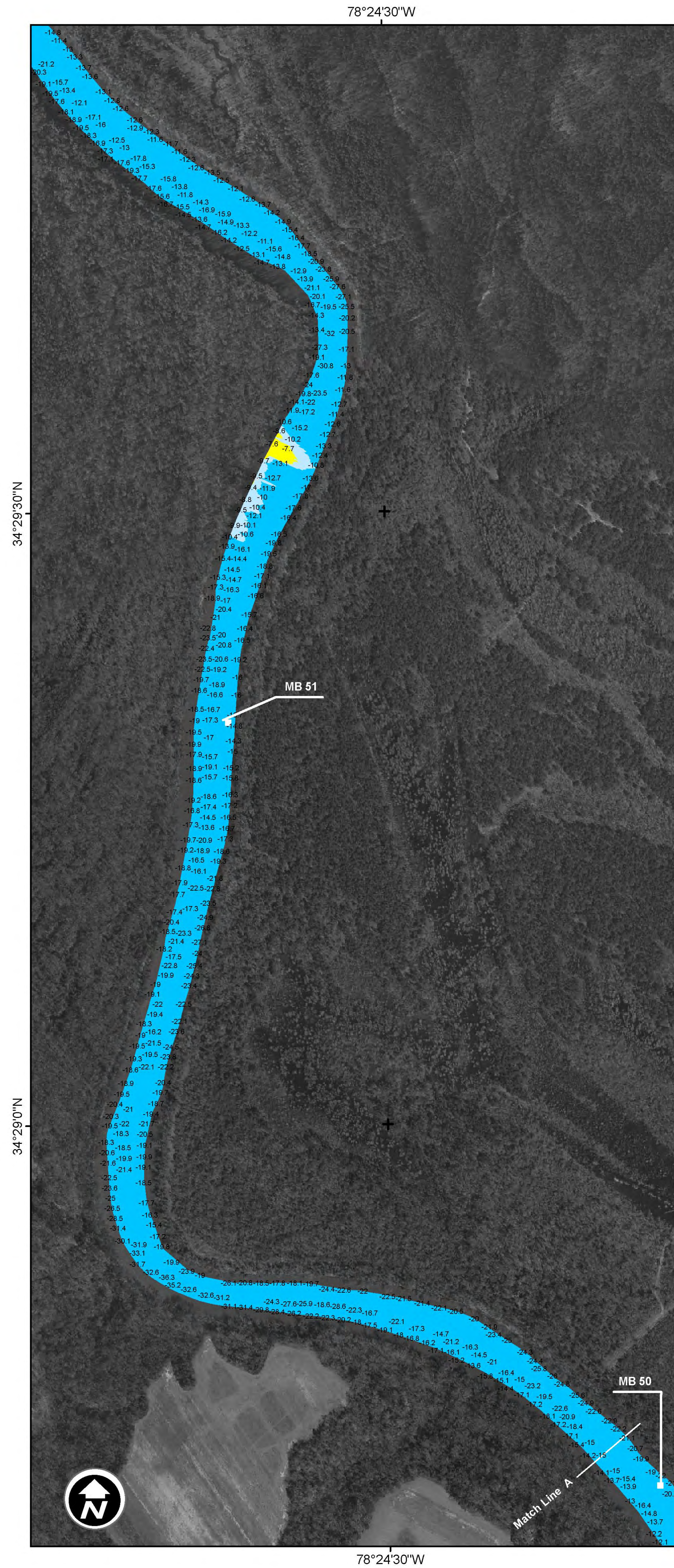
Depth in Feet M.L.W.



- Notes:**
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 - PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J.BUTLER", USING D.G.P.S. HORIZONTAL POSITIONING EQUIPMENT AND 38 KHZ SOUNDING EQUIPMENT.
 - TIDE GAGE LOCATED AT: LOCK 1 UPPER POOL
 - HORIZONTAL DATUM NAD 1983.
 - THESE WAYPOINTS, MAPS AND ASSOCIATED INFORMATION REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.
 - NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.



CONDITION SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 WILMINGTON, NORTH CAROLINA
 MILE BOARD 43 TO 47
CAPE FEAR RIVER
ABOVE WILMINGTON



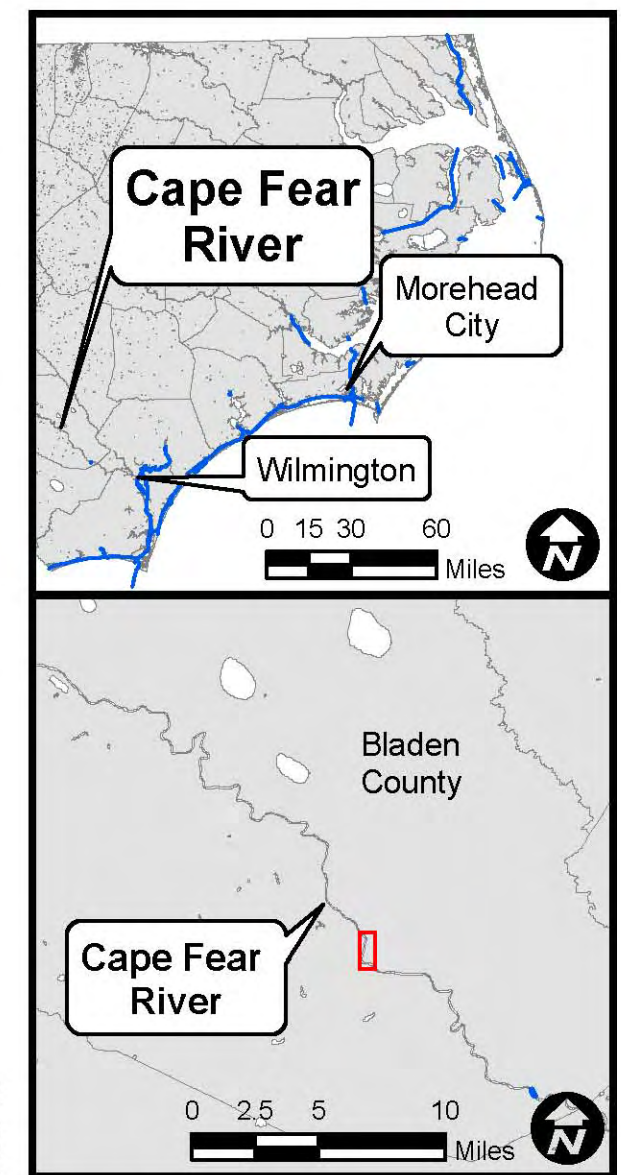
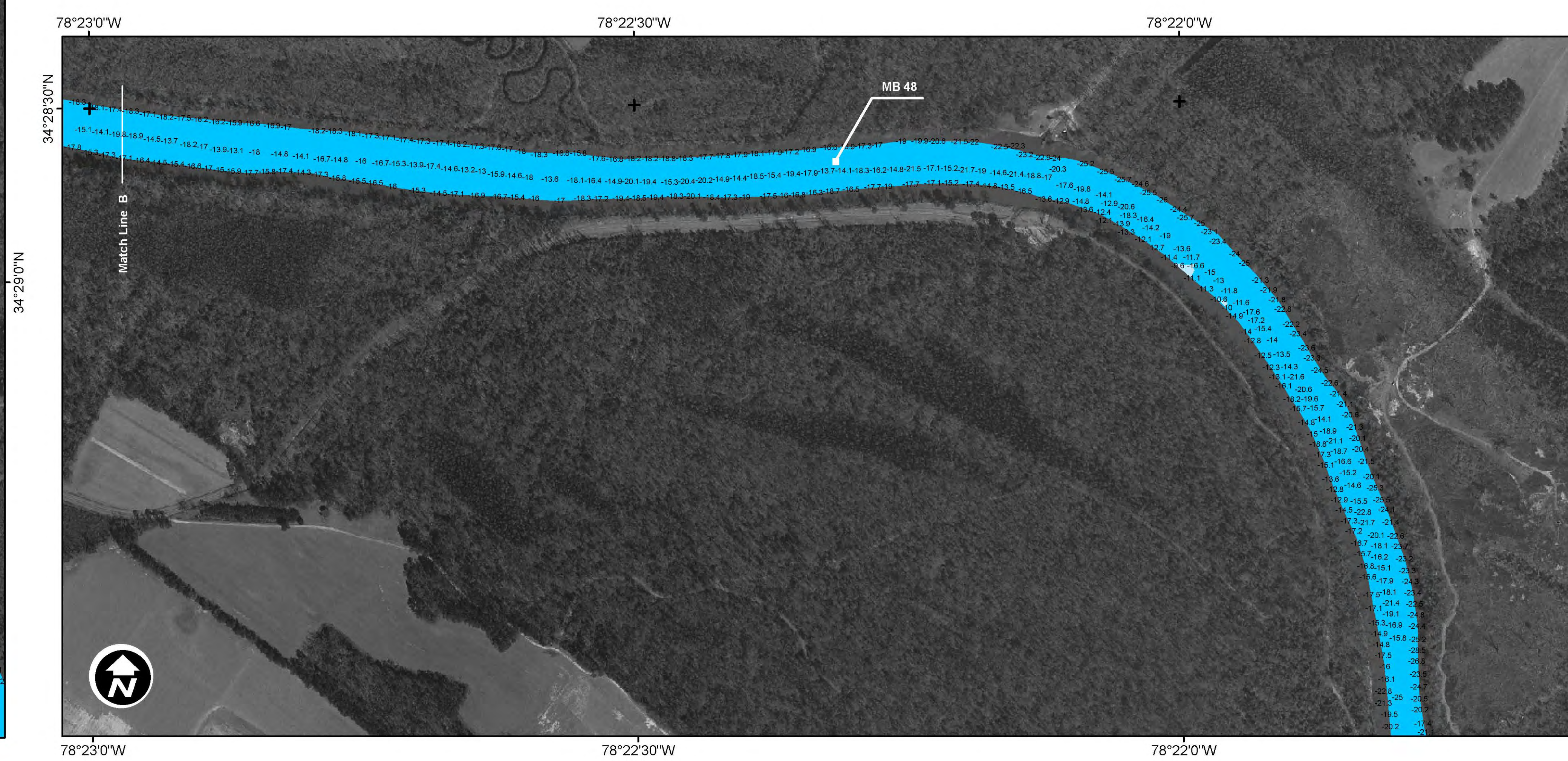
Notes:

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- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING D.G.P.S. HORIZONTAL POSITIONING EQUIPMENT AND 28 KHZ SOUNDING EQUIPMENT.
- TIDE GAGE LOCATED AT: LOCK 1 UPPER POOL
- HORIZONTAL DATUM NAD 1983.
- THESE WAYPOINTS, MAPS AND ASSOCIATED INFORMATION REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.
- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.

Depth in Feet M.L.W.

- 4 -3
- 6 -4
- 8 -6
- 10 -8
- 15.8 -10

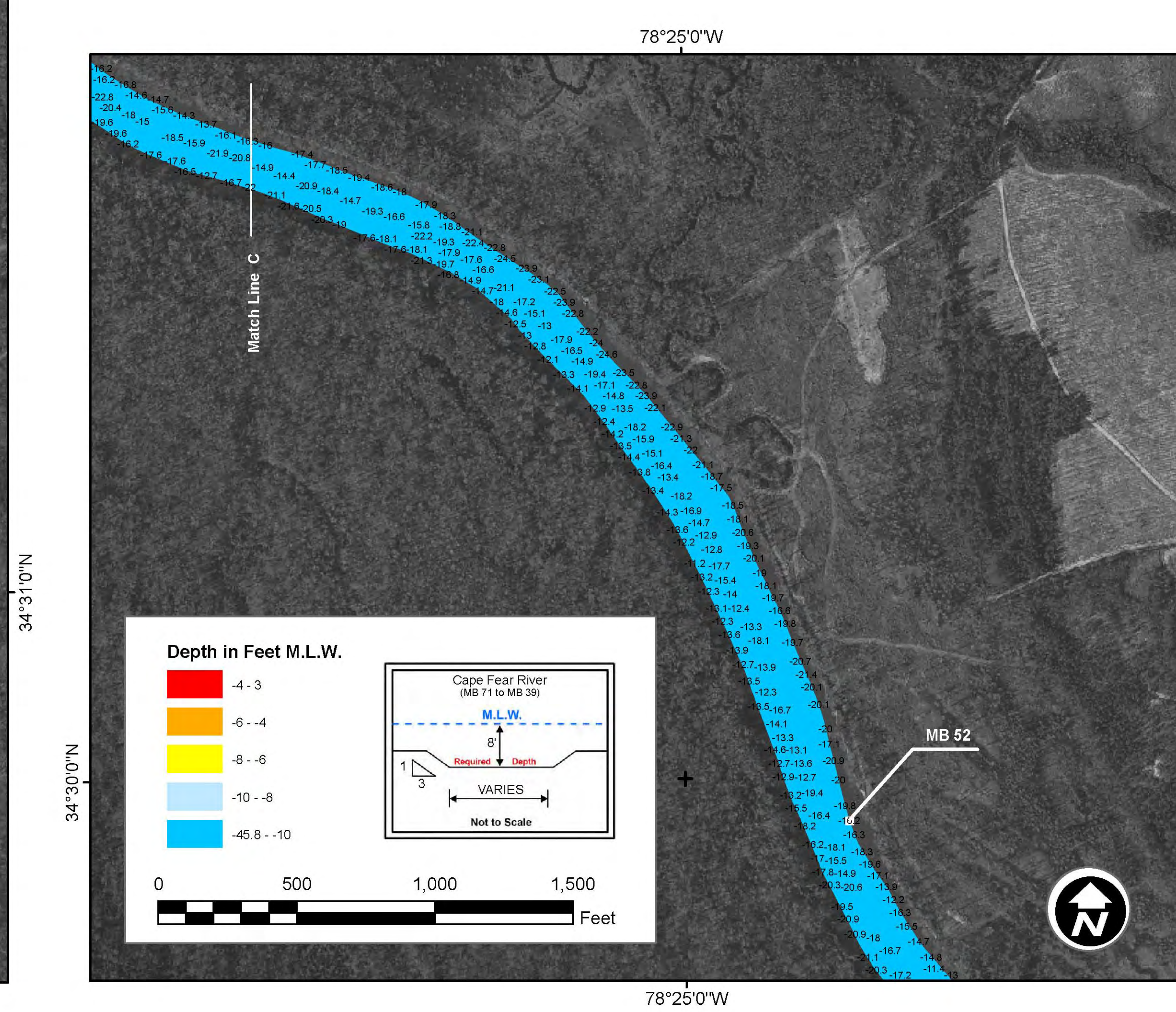
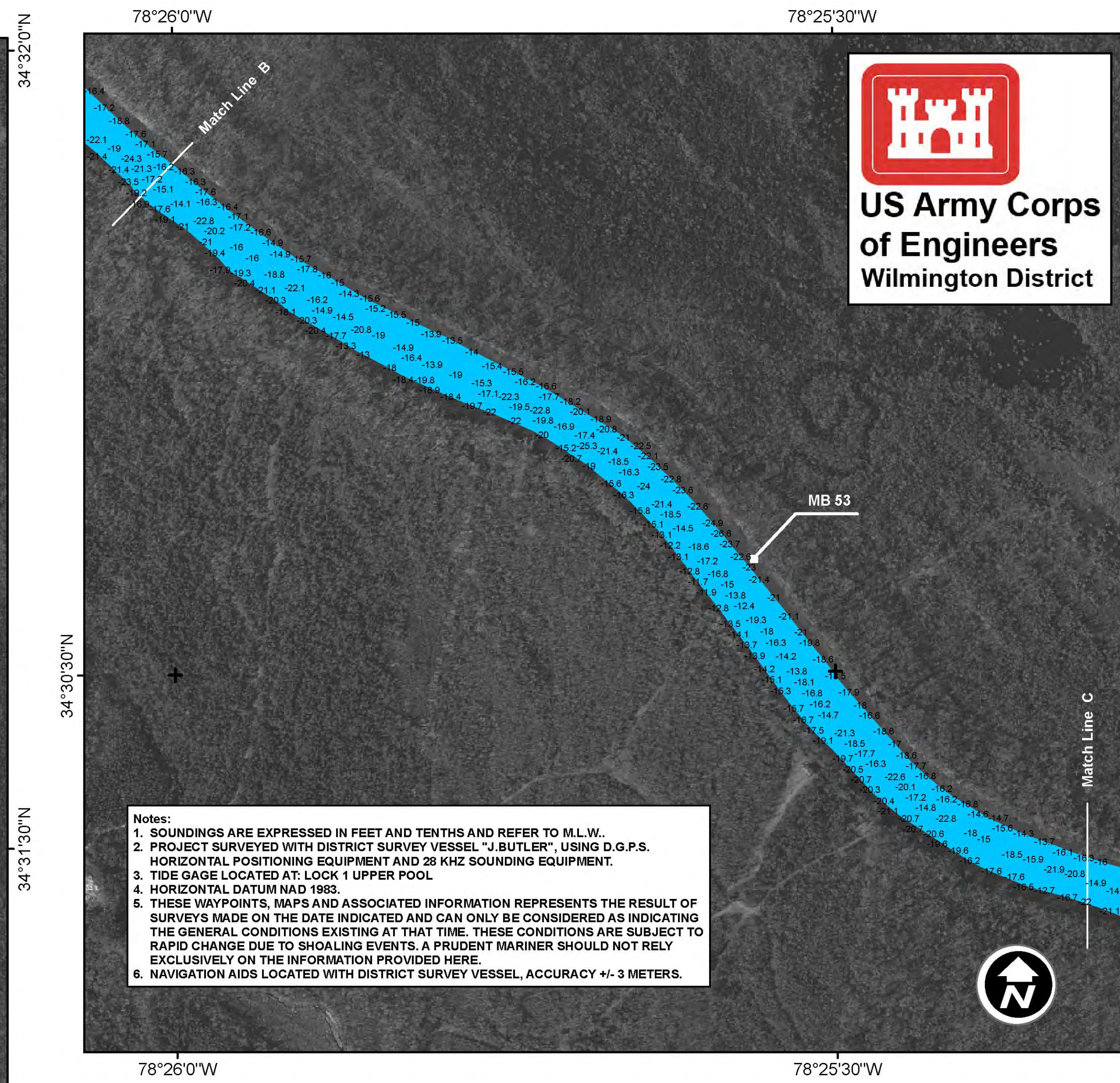
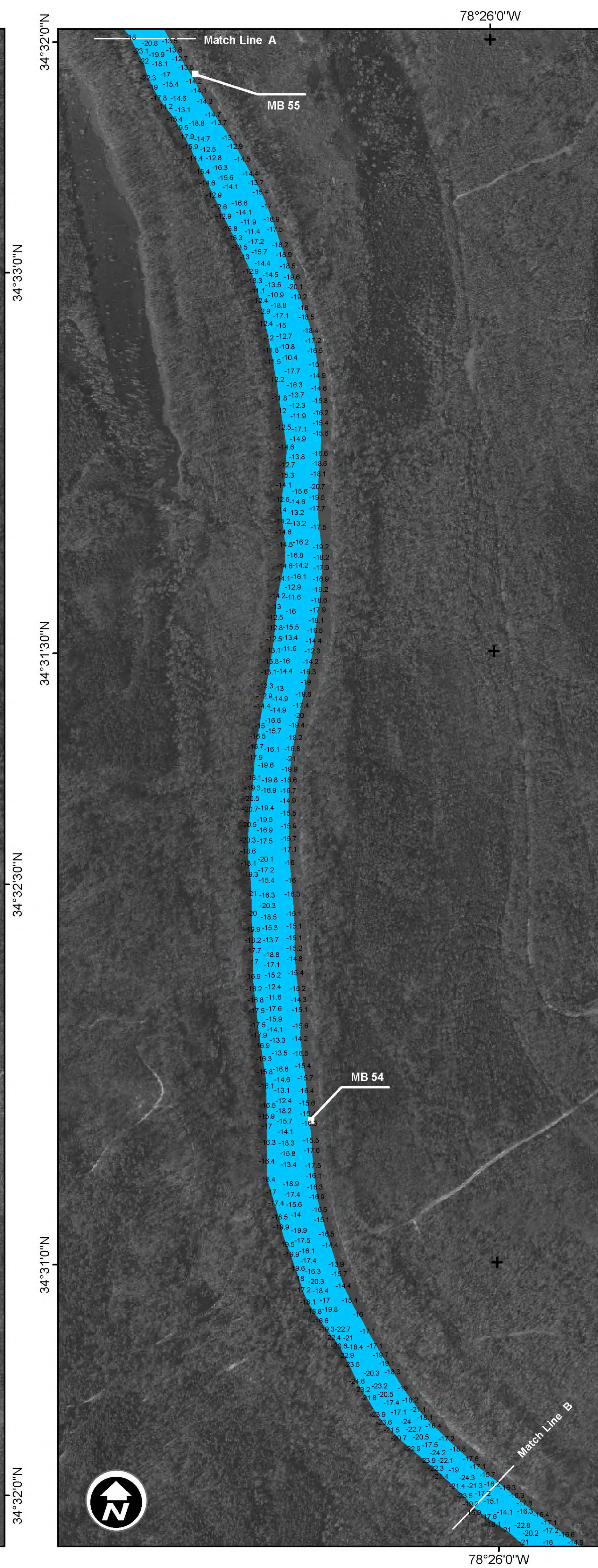
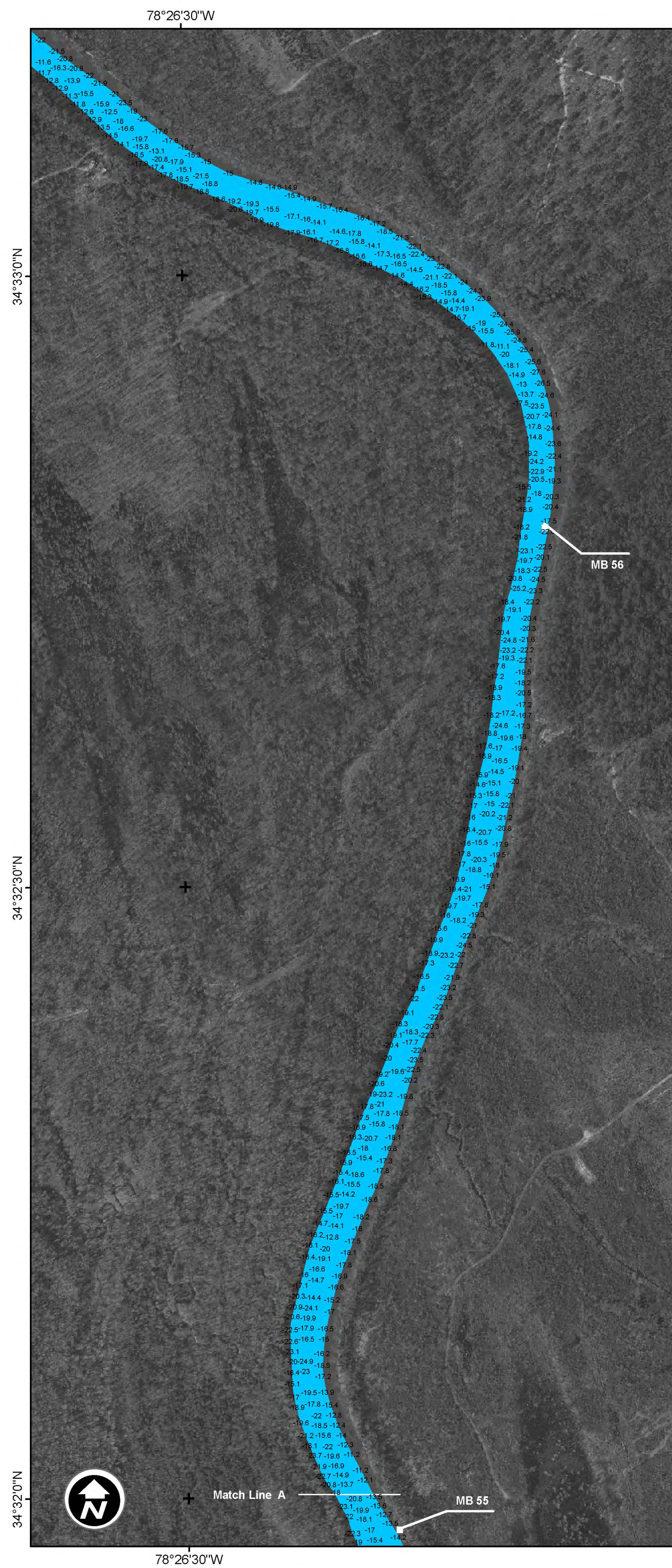
0 500 1,000 1,500 Feet



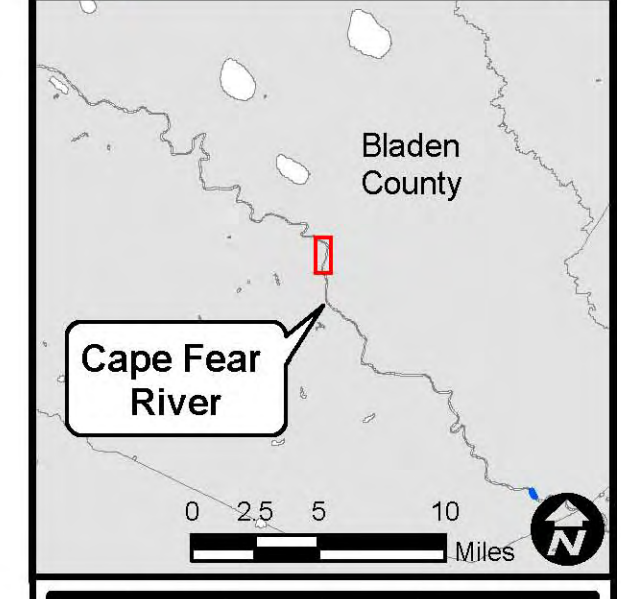
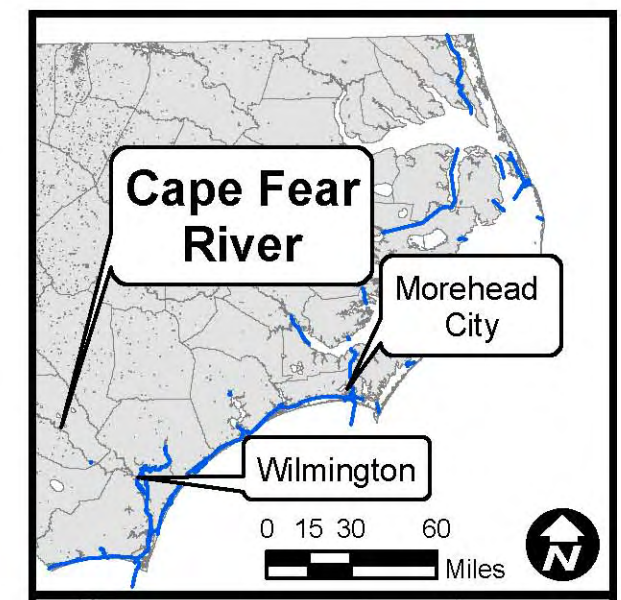
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Map File # CFA 105-09-18			

CONDITION SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 WILMINGTON, NORTH CAROLINA
 MILE BOARD 48 TO 51
CAPE FEAR RIVER
ABOVE WILMINGTON

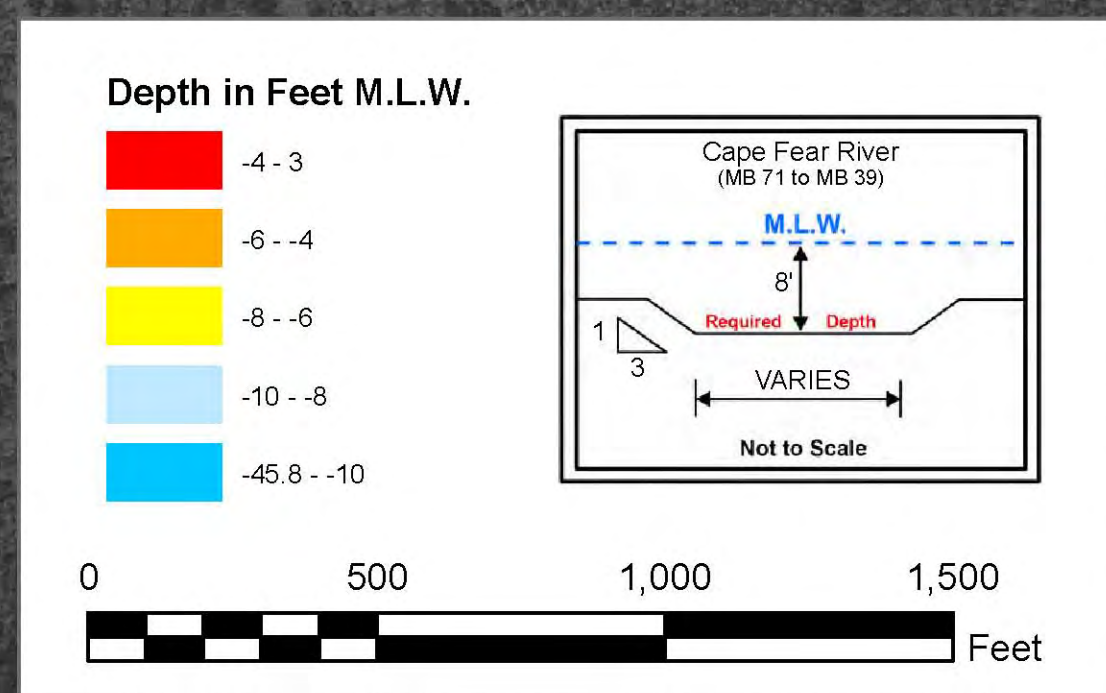


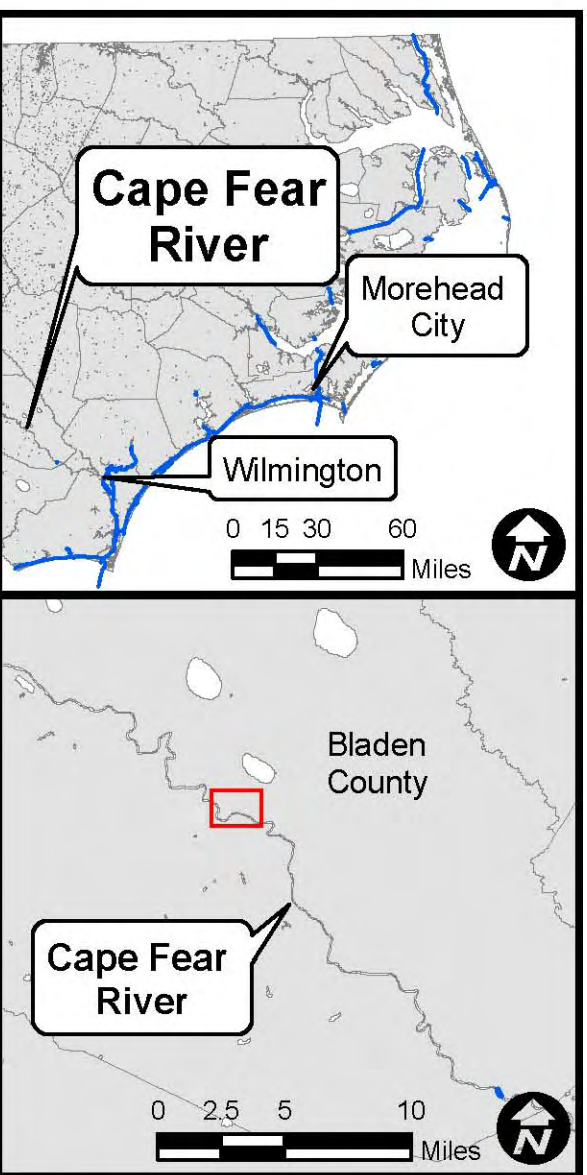
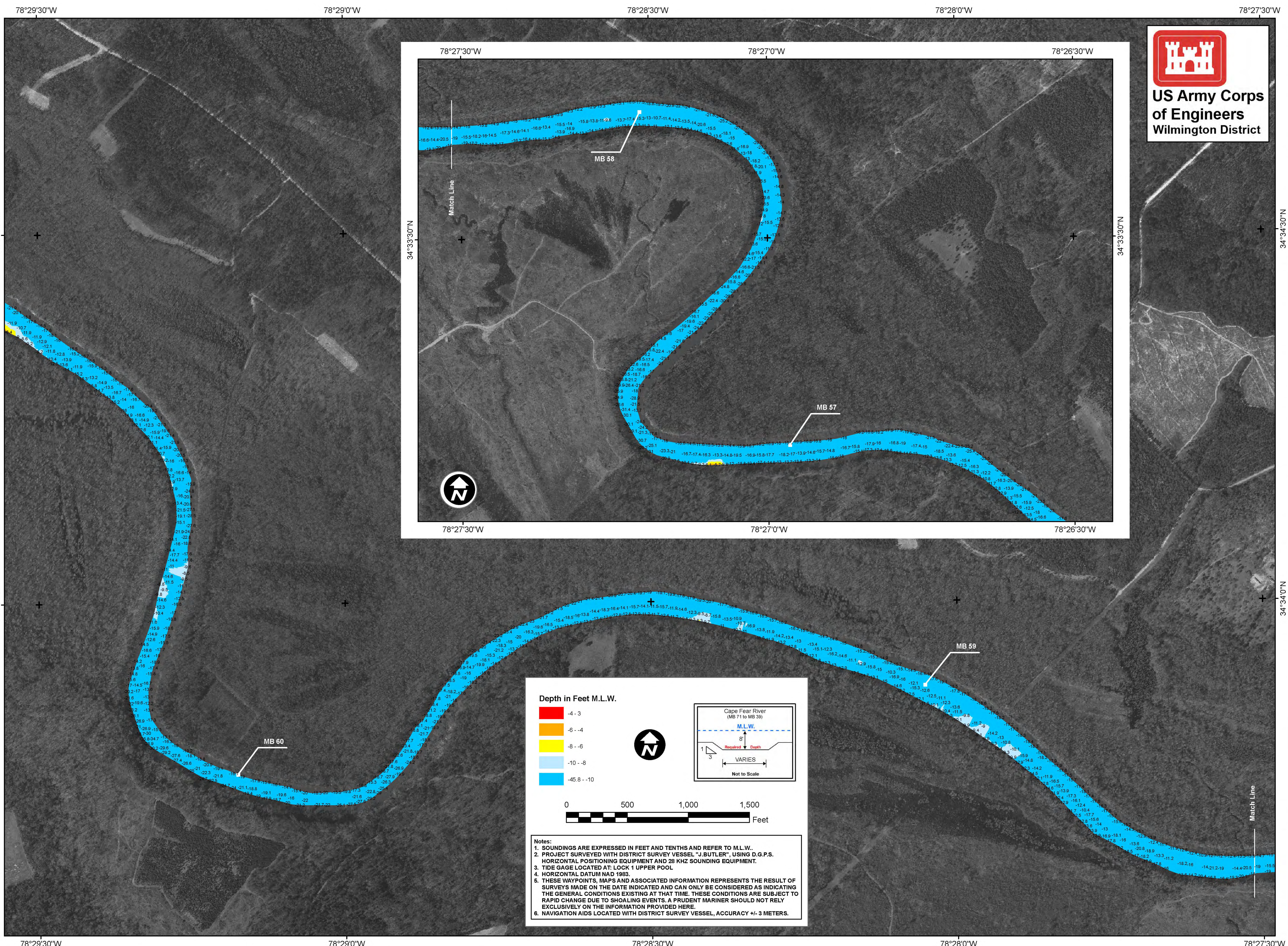
- Notes:**
1. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO M.L.W.
 2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J.BUTLER", USING D.G.P.S. HORIZONTAL POSITIONING EQUIPMENT AND 25 KHZ SOUNDING EQUIPMENT.
 3. TIDE GAGE LOCATED AT: LOCK 1 UPPER POOL
 4. HORIZONTAL DATUM NAD 1983.
 5. THESE WAYPOINTS, MAPS AND ASSOCIATED INFORMATION REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.
 6. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.



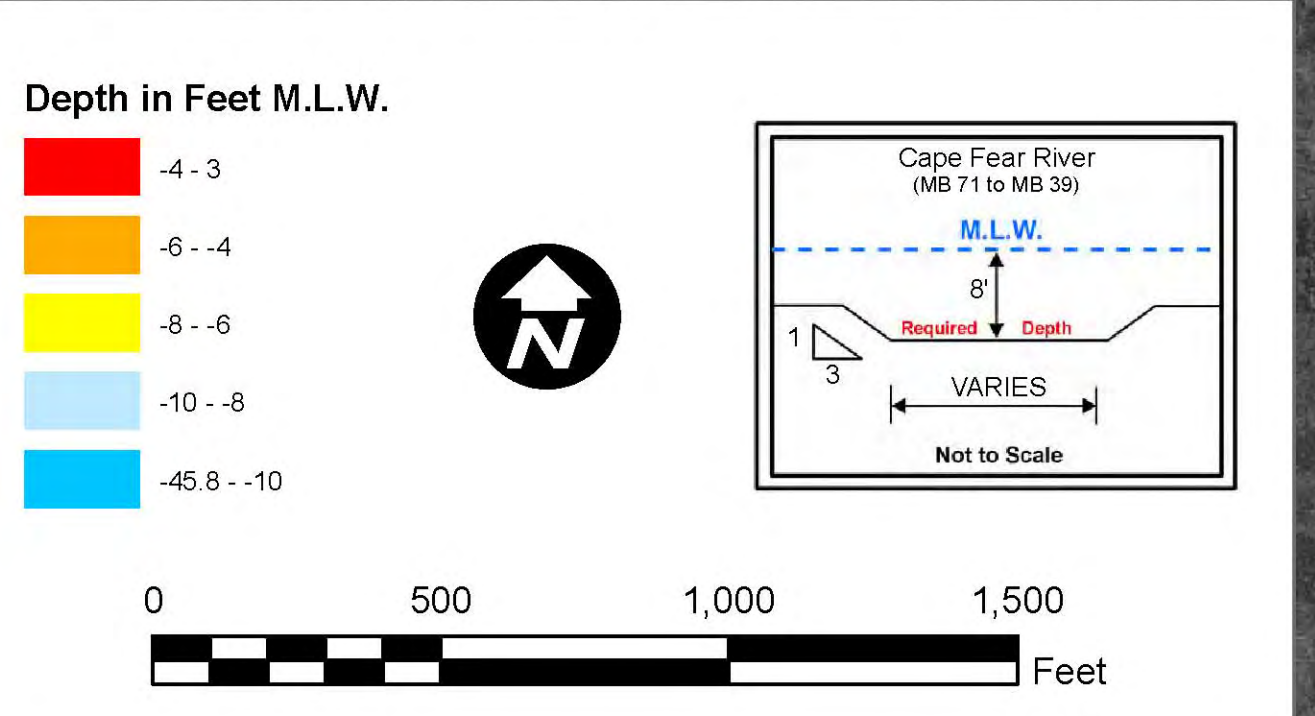
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Map Date: October 9 2009
Imagery Date: Unknown
Map File # CFA 105-09-17
Map File Name: cfa_mb52-56_2009_10_02cs_sk.mxd

CONDITION SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 WILMINGTON, NORTH CAROLINA
 MILE BOARD 52 TO 56
**CAPE FEAR RIVER
 ABOVE WILMINGTON**





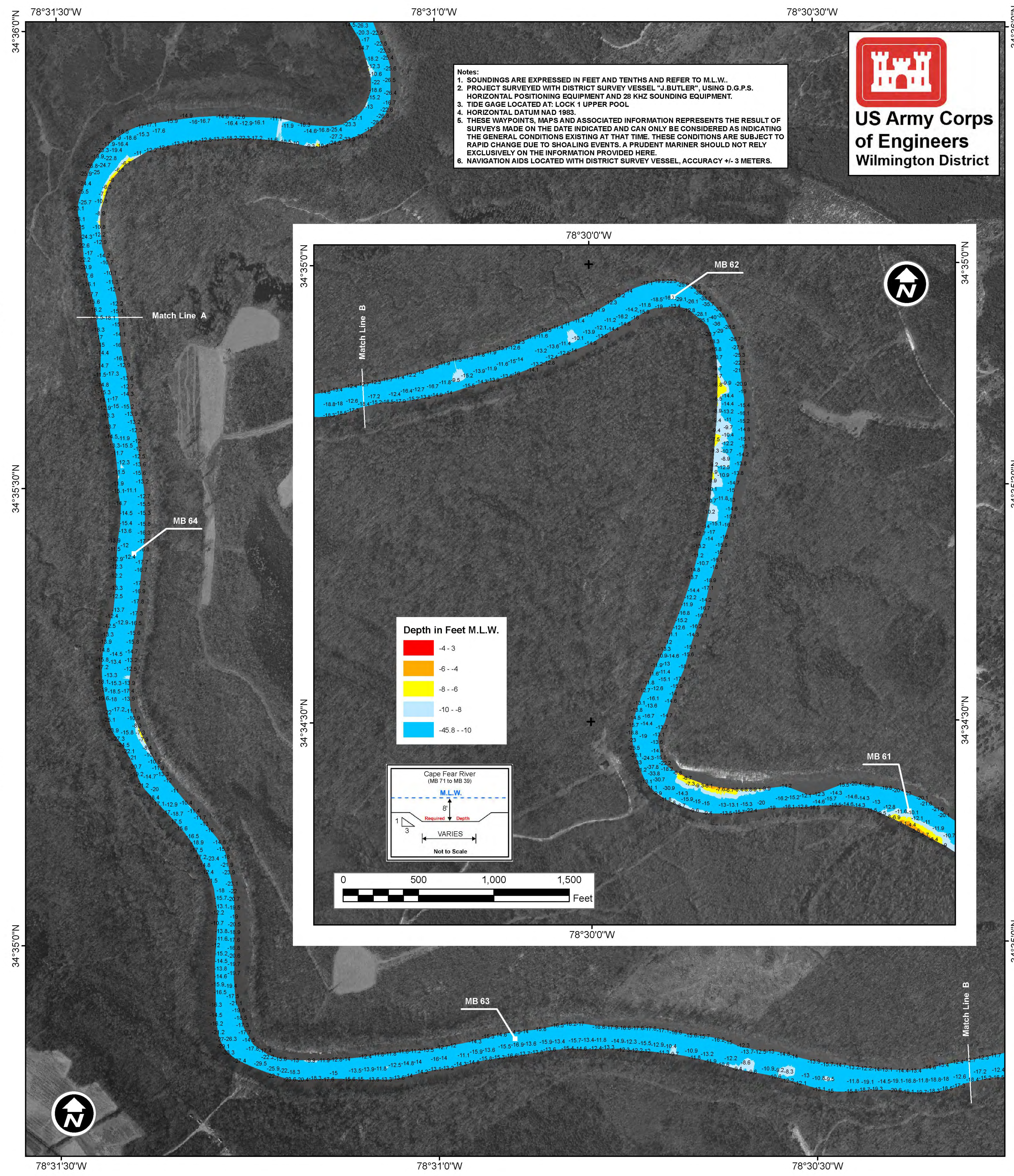
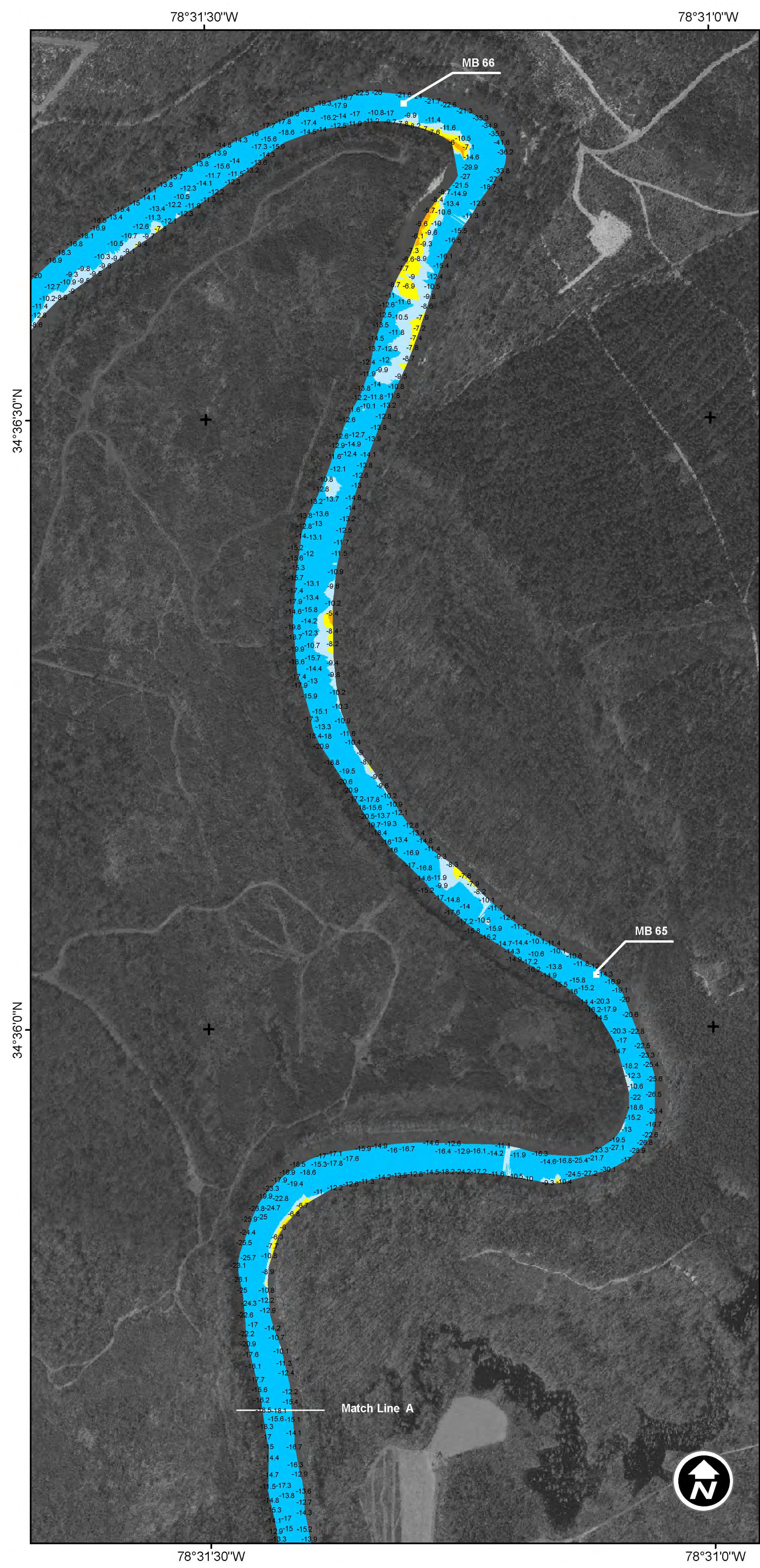
Survey Date(s): Sept 30, Oct 1, 2, 2009	Surveyed By: MAS, JBD
Map Date: October 9 2009	Mapped By: TH
Imagery Date: Unknown	Scale: 1:4000
Map File # CFA 105-09-16	
Map File Name: cfa_mb57-60_2009_10_02cs_sk.mxd	



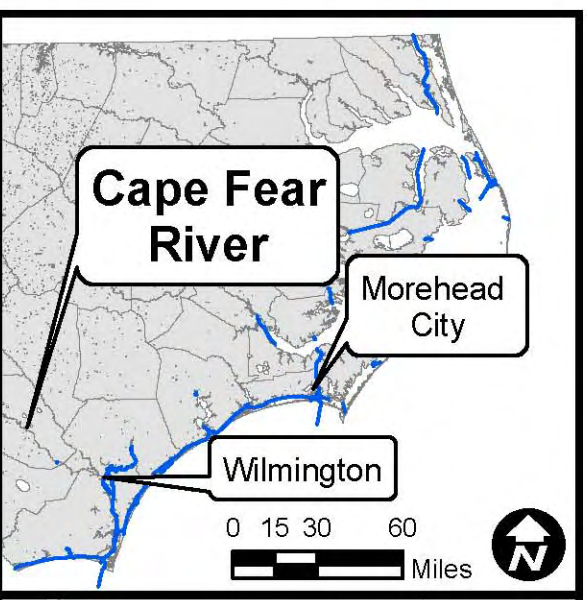
Notes:

1. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO M.L.W..
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J.BUTLER", USING D.G.P.S. HORIZONTAL POSITIONING EQUIPMENT AND 28 KHZ SOUNDING EQUIPMENT.
3. TIDE GAGE LOCATED AT LOCK 1 UPPER POOL
4. HORIZONTAL DATUM NAD 1983.
5. THESE WAYPOINTS, MAPS AND ASSOCIATED INFORMATION REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.
6. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.

CONDITION SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 WILMINGTON, NORTH CAROLINA
 MILE BOARD 57 TO 60
CAPE FEAR RIVER
ABOVE WILMINGTON



- Notes:
1. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO M.L.W.
 2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING D.G.P.S. HORIZONTAL POSITIONING EQUIPMENT AND 28 KHZ SOUNDING EQUIPMENT.
 3. TIDE GAGE LOCATED AT: LOCK 1 UPPER POOL.
 4. HORIZONTAL DATUM NAT 1983.
 5. THESE WAYPOINTS, MAPS AND ASSOCIATED INFORMATION REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.
 6. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.



Survey Date(s): Sept 30, Oct 1, 2 2009	Surveyed By: MAS, JBD
Map Date: October 9 2009	Mapped By: TH
Imagery Date: Unknown	Scale: 1:4000
Map File # CFA 105-09-15	
Map File Name: cfa_mb61-66_2009_10_02cs_sk.mxd	

CONDITION SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MILE BOARD 61 TO 66
CAPE FEAR RIVER
ABOVE WILMINGTON

78°34'30"W

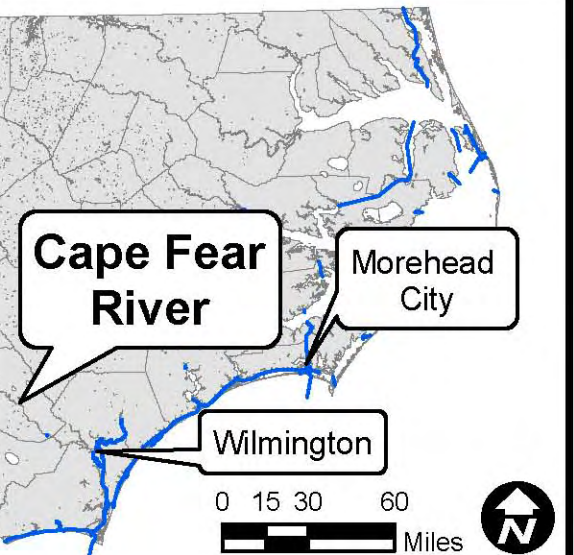
78°34'0"W

78°33'30"W

78°33'0"W



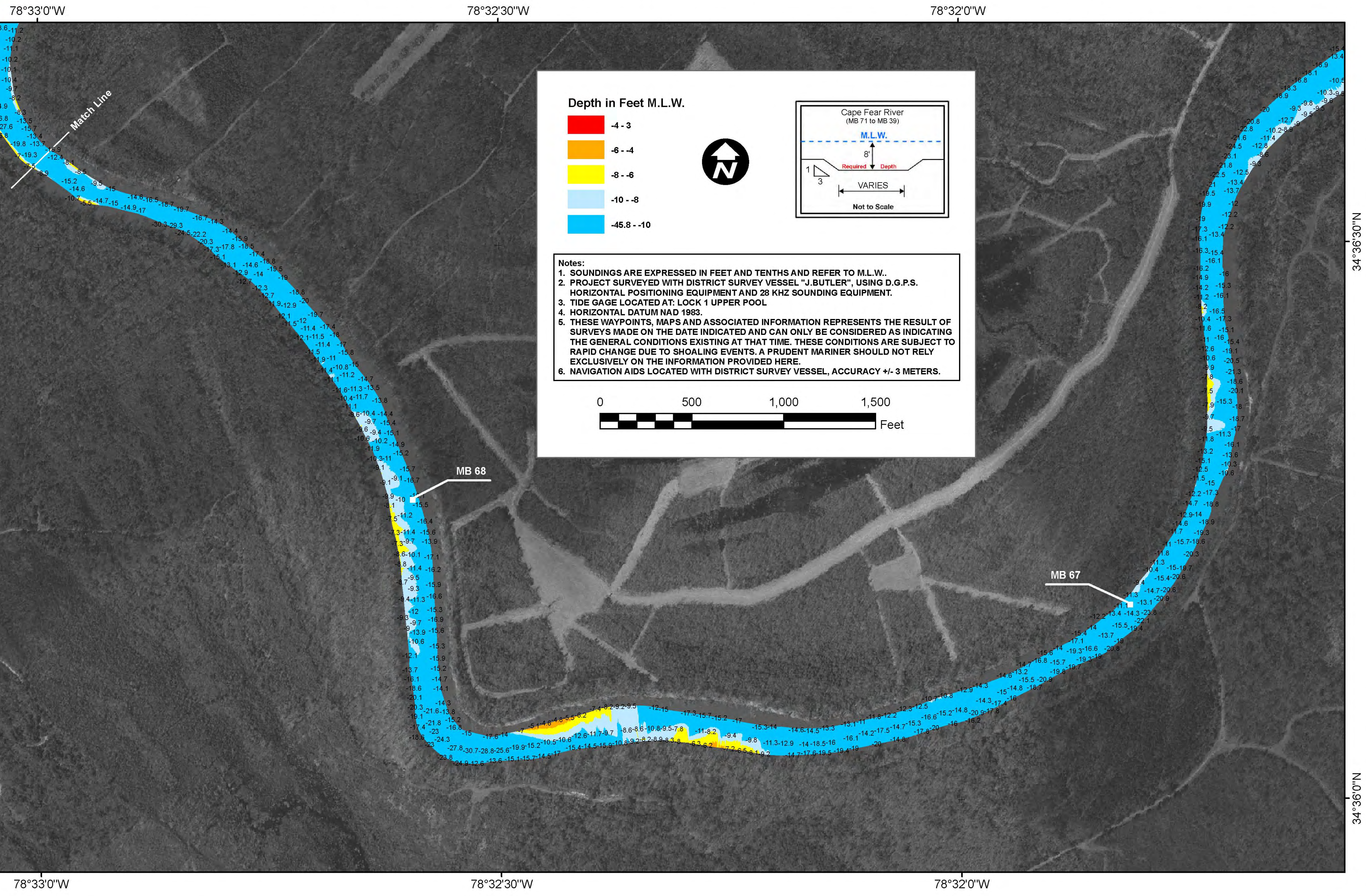
US Army Corps of Engineers
Wilmington District



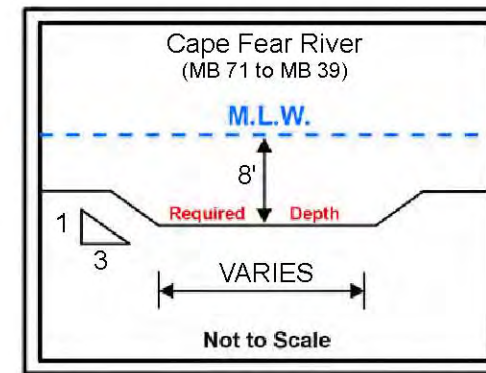
LOCK & DAM 2

MB 71

MB 70



Depth in Feet M.L.W.



- Notes:
1. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO M.L.W.
 2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING D.G.P.S. HORIZONTAL POSITIONING EQUIPMENT AND 28 KHZ SOUNDING EQUIPMENT.
 3. TIDE GAGE LOCATED AT: LOCK 1 UPPER POOL
 4. HORIZONTAL DATUM NAD 1983.
 5. THESE WAYPOINTS, MAPS AND ASSOCIATED INFORMATION REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.
 6. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.



MB 68

MB 67

MB 69

Survey Date(s): Sept 30, Oct 1, 2 2009	Surveyed By: MAS, JBD
Map Date: October 8 2009	Mapped By: TH
Imagery Date: Unknown	Scale: 1:4000
Map File # CFA 105-09-14	
Map File Name: cfa_mb67-71_2009_10_02cs_sk.mxd	

CONDITION SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 WILMINGTON, NORTH CAROLINA
 MILE BOARD 67 TO 71
CAPE FEAR RIVER
ABOVE WILMINGTON

78°34'30"W

78°34'0"W

78°33'30"W

78°33'0"W

