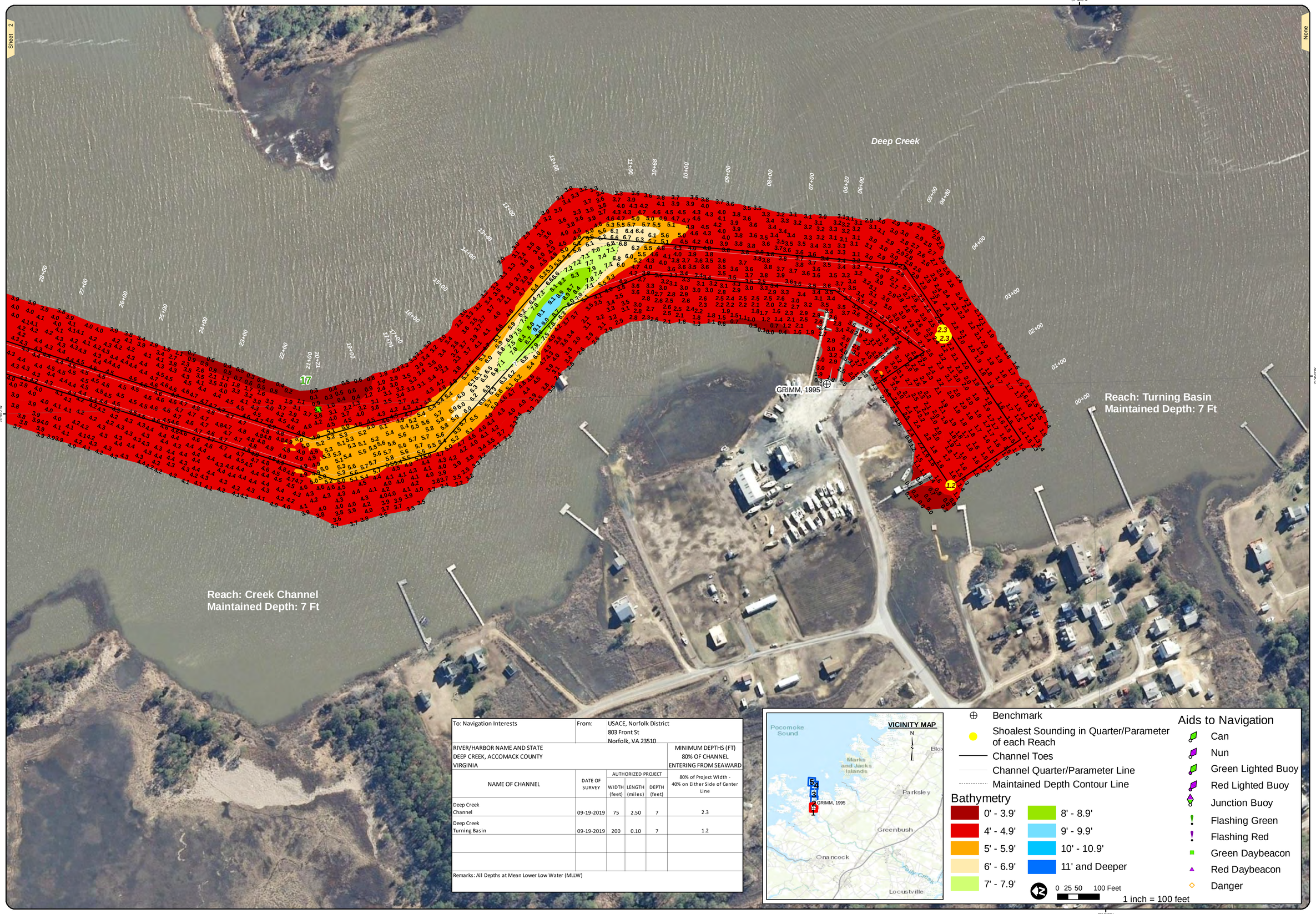


To: Navigation Interests	From:	USACE, Norfolk District 803 Front St Norfolk, VA 23510			
RIVER/HARBOR NAME AND STATE DEEP CREEK, ACCOMACK COUNTY VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Deep Creek Channel	09-19-2019	75	2.50	7	2.3
Deep Creek Turning Basin	09-19-2019	200	0.10	7	1.2
Remarks: All Depths at Mean Lower Low Water (MLLW)					

- Benchmark
- Shoalest Sounding in Quarter/Parameter of each Reach
- Channel Toes
- Channel Quarter/Parameter Line
- Maintained Depth Contour Line

Bathymetry

- 0' - 3.9'
- 4' - 4.9'
- 5' - 5.9'
- 6' - 6.9'
- 7' - 7.9'
- 8' - 8.9'
- 9' - 9.9'
- 10' - 10.9'
- 11' and Deeper

0 25 50 100 Feet

1 inch = 100 feet

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: A CHANNEL 7 FEET DEEP, 75 FEET WIDE, AND A TURNING BASIN OF THE SAME DEPTH, 200 FEET WIDE AND 300 FEET LONG.
2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 15 FT RADIUS GENERATED FROM HYDROSURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGAGERY WEB SERVICE.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.
6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
NAD 83 / 2011
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 1 FEET
HORIZONTAL CONTROL: LEICA SMART NET

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: RTK/LEICA SMART NET
TIDE APPLICATION: BM SEPARATION VALUE
SYSTEM/METHOD: MULTI-BEAM
SIZE: 2.5 FT
BIN SELECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
CE "GRIMM, 1995"	5.50'	4.03'(GEOID12B)	2.1'	00+00 to 134+00

DEEP CREEK (ACCOMACK COUNTY)
PROJECT CONDITION SURVEY

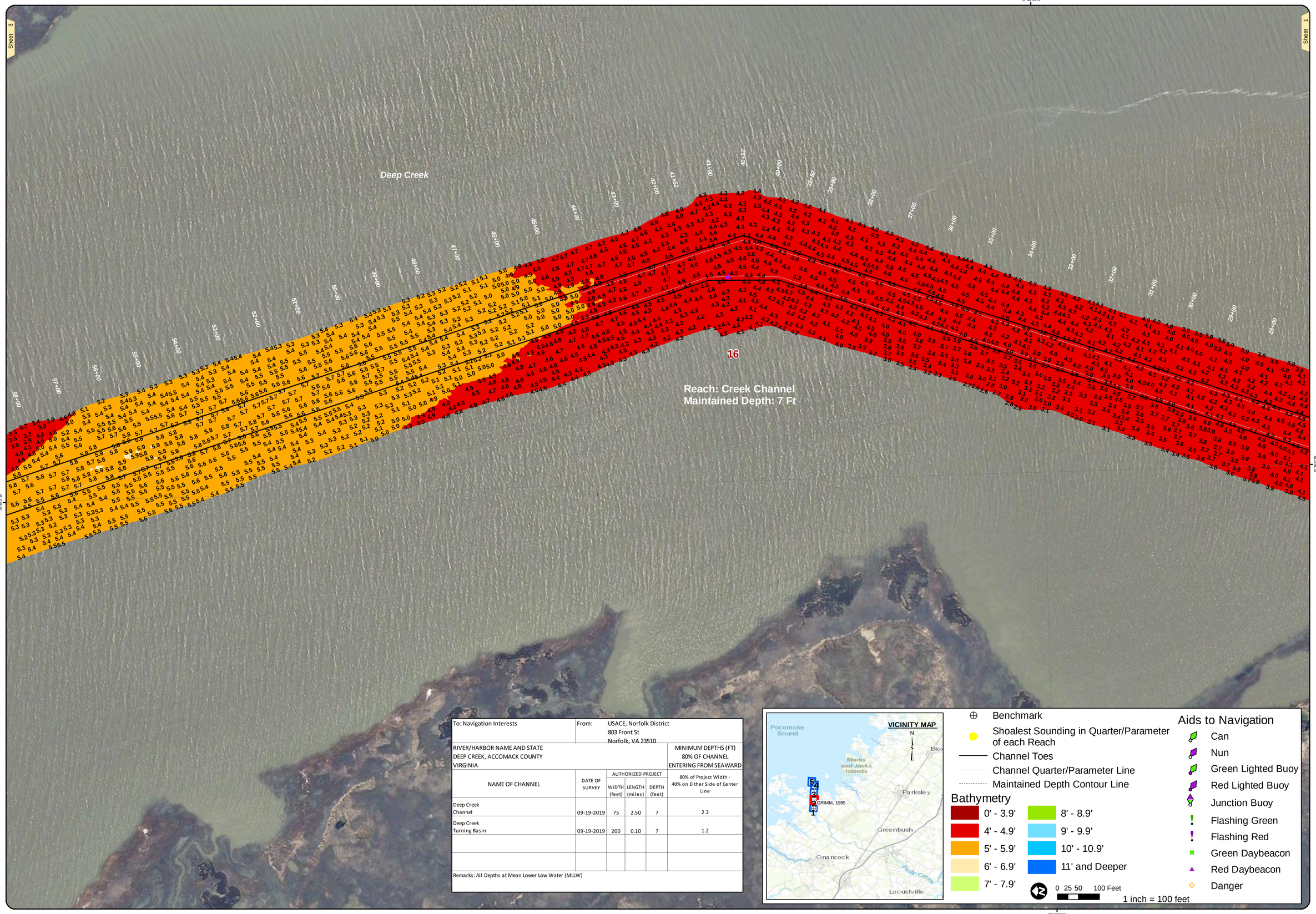
SURVEY DATES:
September 19, 2019

SURVEY BY: USACE Team Lead: Joe Moore, Jr.
eHYDRO FILE DC_01_DCA_20190919_CS

SHEET 1 of 5
Map Produced: 9/27/2019

APPROVED:
Jeff Swallow
Digitally signed by Jeff Swallow
Date: 2019.09.30 07:15:01 -04'00'
Chief, Navigation Analysis Section

APPROVED:
Digitally signed by Eric Legaspi
Date: 2019.09.30 13:09:08 -04'00'
Chief, Navigation Support and Survey Section



To: Navigation Interests	From:	USACE, Norfolk District 803 Front St Norfolk, VA 23510			
RIVER/HARBOR NAME AND STATE DEEP CREEK, ACCOMACK COUNTY VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Deep Creek Channel	09-19-2019	75	2.50	7	2.3
Deep Creek Turning Basin	09-19-2019	200	0.10	7	1.2

Remarks: All Depths at Mean Lower Low Water (MLLW)

Benchmark
Shoalest Sounding in Quarter/Parameter of each Reach
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line

Bathymetry
0' - 3.9'
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Aids to Navigation
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Nun
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Junction Buoy
Flashing Green
Flashing Red
Green Daybeacon
Red Daybeacon
Danger

0 25 50 100 Feet
1 inch = 100 feet

US Army Corps of Engineers
Norfolk District

NOTES:
1. PROJECT: A CHANNEL 7 FEET DEEP, 75 FEET WIDE, AND A TURNING BASIN OF THE SAME DEPTH, 200 FEET WIDE AND 300 FEET LONG.
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6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 3 FEET
HORIZONTAL CONTROL: LEICA SMART NET

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983 - 2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: RTK/LEICA SMART NET
TIDE APPLICATION: LEICA SMARTNET
BM SEPARATION VALUE: MULTI-BEAM
SYSTEM/METHOD: 5X5'
BIN SIZE: AVERAGE CELL CENTER
BIN SELECTION METHOD:

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
CE "GRIMM, 1995"	5.50'	4.03'(GEOID12B)	2.12'	00+00 to 134+00

DEEP CREEK (ACCOMACK COUNTY)
PROJECT CONDITION SURVEY

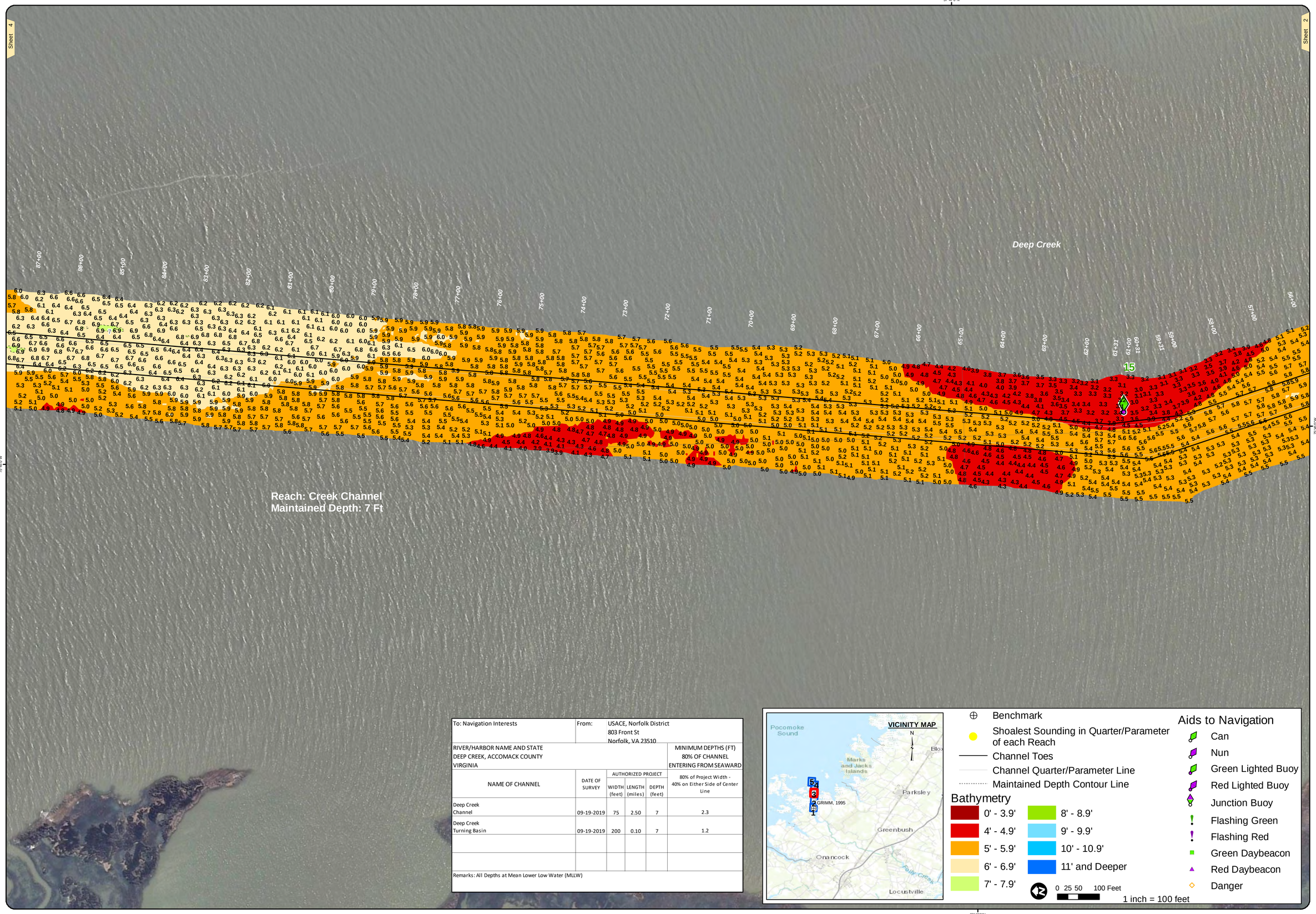
SURVEY DATES:
September 19, 2019

SURVEY BY: USACE Team Lead: Joe Moore, Jr.
eHYDRO FILE: DC_01_DCA_20190919_CS

SHEET 2 of 5
Map Produced: 9/27/2019

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



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US Army Corps of Engineers
Norfolk District

NOTES:

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PROJECTED COORDINATE UNITS: US SURVEY FEET
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HORIZONTAL CONTROL: LEICA SMART NET

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983 - 2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: RTK/LEICA SMART NET
TIDE APPLICATION: LEICA SMART NET
BM SEPARATION VALUE: MULTI-BEAM
SYSTEM/METHOD: 5X5'
BIN SIZE: AVERAGE CELL CENTER
BIN SELECTION METHOD:

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MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
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DEEP CREEK (ACCOMACK COUNTY)
PROJECT CONDITION SURVEY

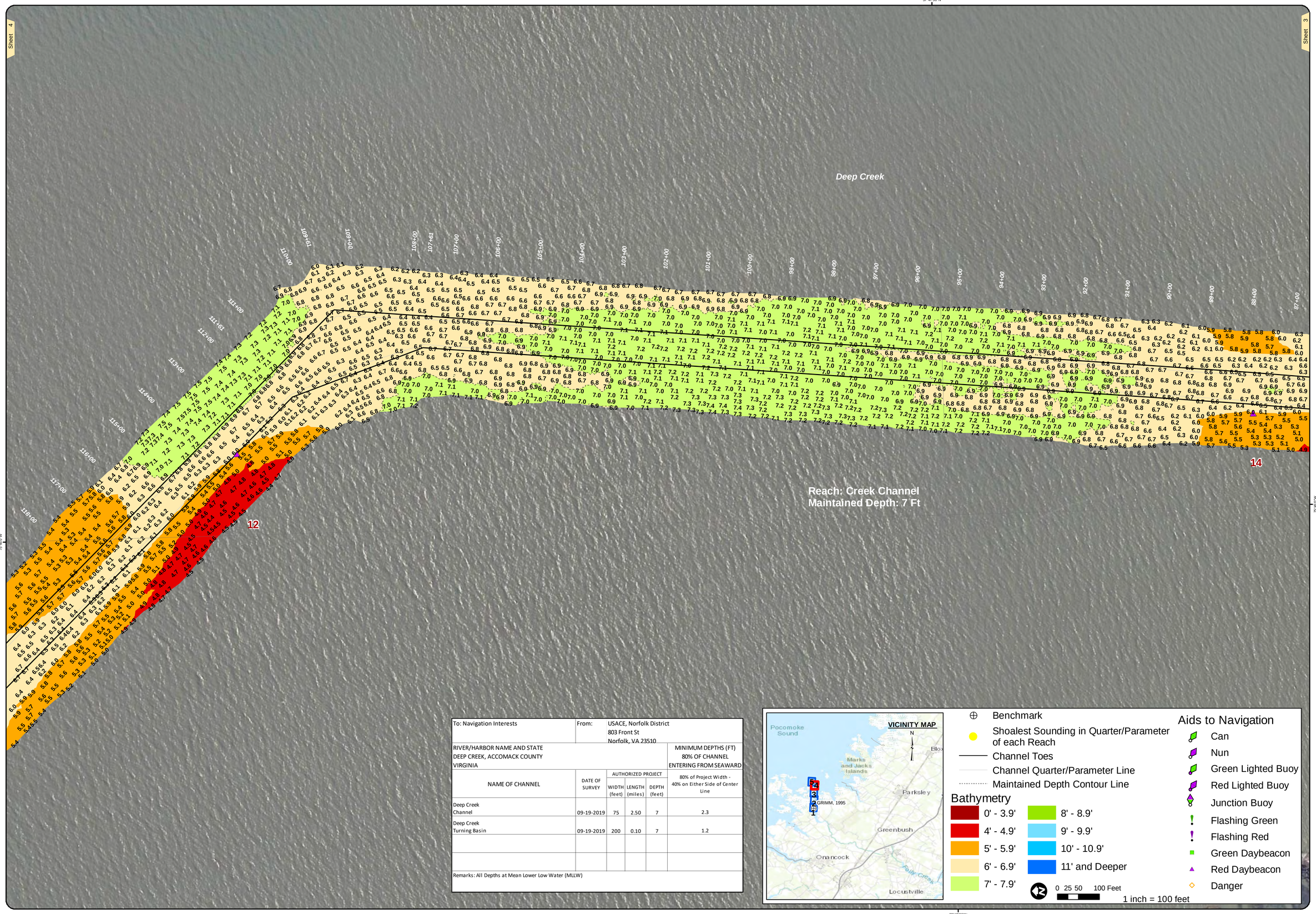
SURVEY DATES:
September 19, 2019

SURVEY BY: USACE Team Lead: Joe Moore, Jr.
eHYDRO FILE: DC_01_DCA_20190919_CS

SHEET 3 of 5
Map Produced: 9/27/2019

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



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Norfolk District

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DEEP CREEK (ACCOMACK COUNTY)
PROJECT CONDITION SURVEY

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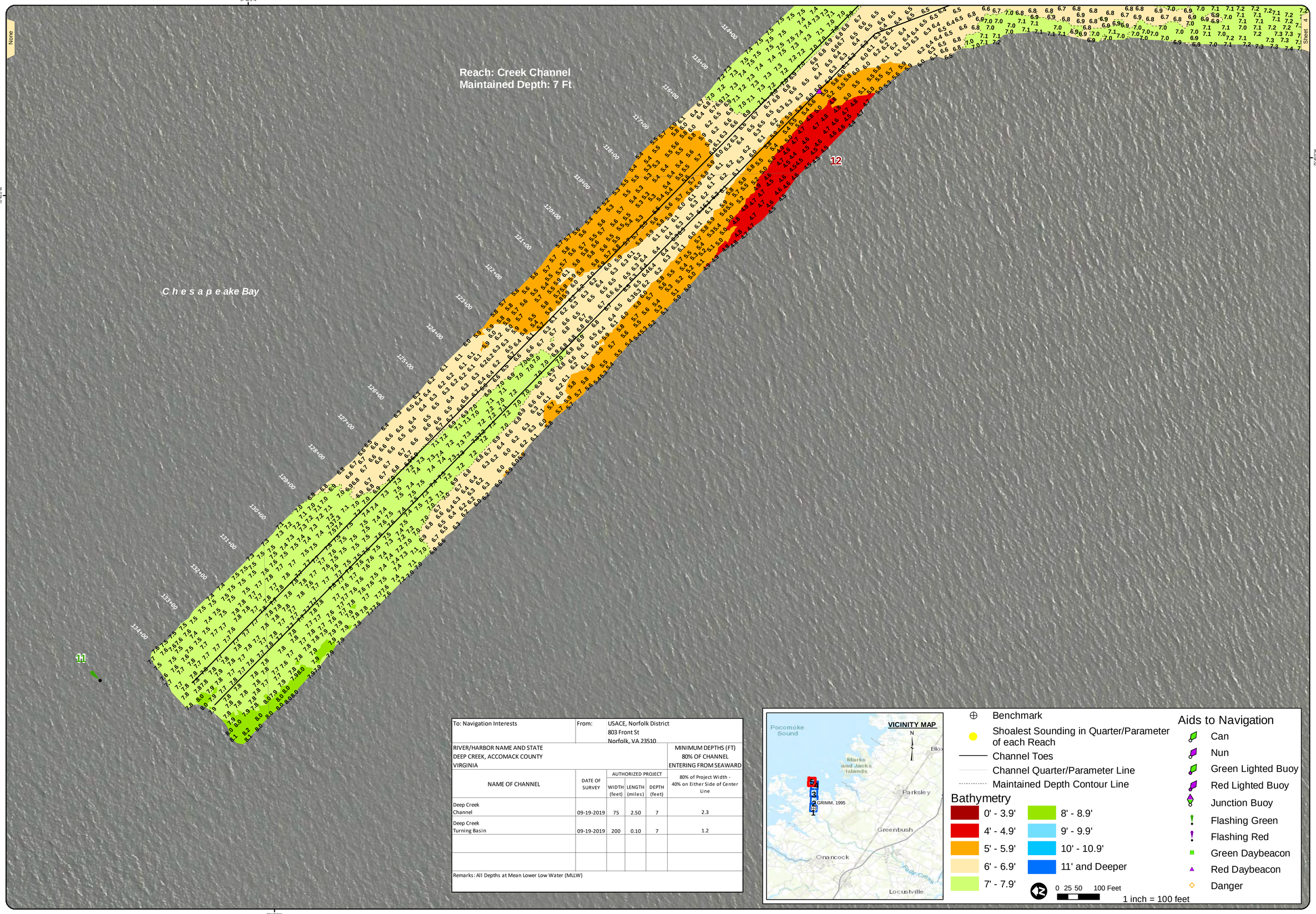
September 19, 2019

SURVEY BY: USACE Team Lead: Joe Moore, Jr.
eHYDRO FILE: DC_01_DCA_20190919_CS

SHEET 4 of 5
Map Produced: 9/27/2019

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



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Red Daybeacon
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US Army Corps of Engineers
Norfolk District

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VERTICAL REFERENCE DATUM: NOS MLLW
TIDAL EPOCH: 1983 - 2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: RTK/LEICA SMART NET
TIDE APPLICATION: LEICA SMART NET
BM SEPARATION VALUE: MULTI-BEAM
SYSTEM/METHOD: 5x5'
BIN SIZE: AVERAGE CELL CENTER
BIN SELECTION METHOD:

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
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GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
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DEEP CREEK (ACCOMACK COUNTY)
PROJECT CONDITION SURVEY

SURVEY DATES:
September 19, 2019

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eHYDRO FILE: DC_01_DCA_20190919_CS

SHEET 5 of 5
Map Produced: 9/27/2019

APPROVED:
Chief, Navigation Analysis Section
APPROVED:
Chief, Navigation Support and Survey Section