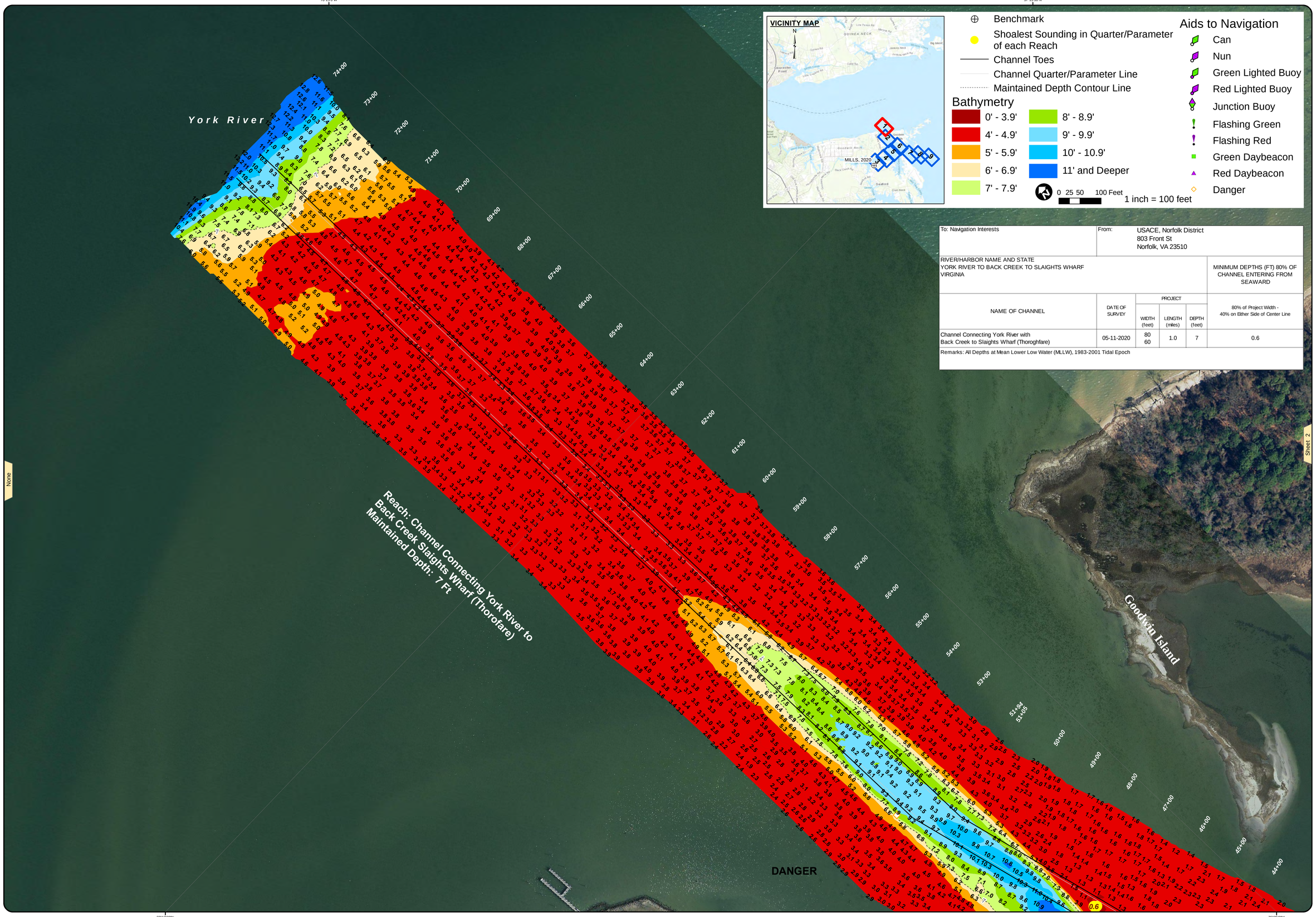


US Army Corps of Engineers
Norfolk District

To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510			
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA				MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch					

NOTES:

1. PROJECT: A CHANNEL 7 FEET DEEP AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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 20 FT RADIUS GENERATED FROM HYDROSURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS 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
DATUM/ELLIPSOID: NAD83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
INVERSE PROJECTION ACCURACY: +/- 1 FOOT
HORIZONTAL CONTROL: MILLS, 2020

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE ACQUISITION: PERMANENT/VDATUM MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5X5
BIN SELECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE
Mills, 2020	3.85'	2.31 (GEOID18)	2.20'

AREA
20+00 to 37+00,
200+00 to 300+00,
500+00 to 556+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

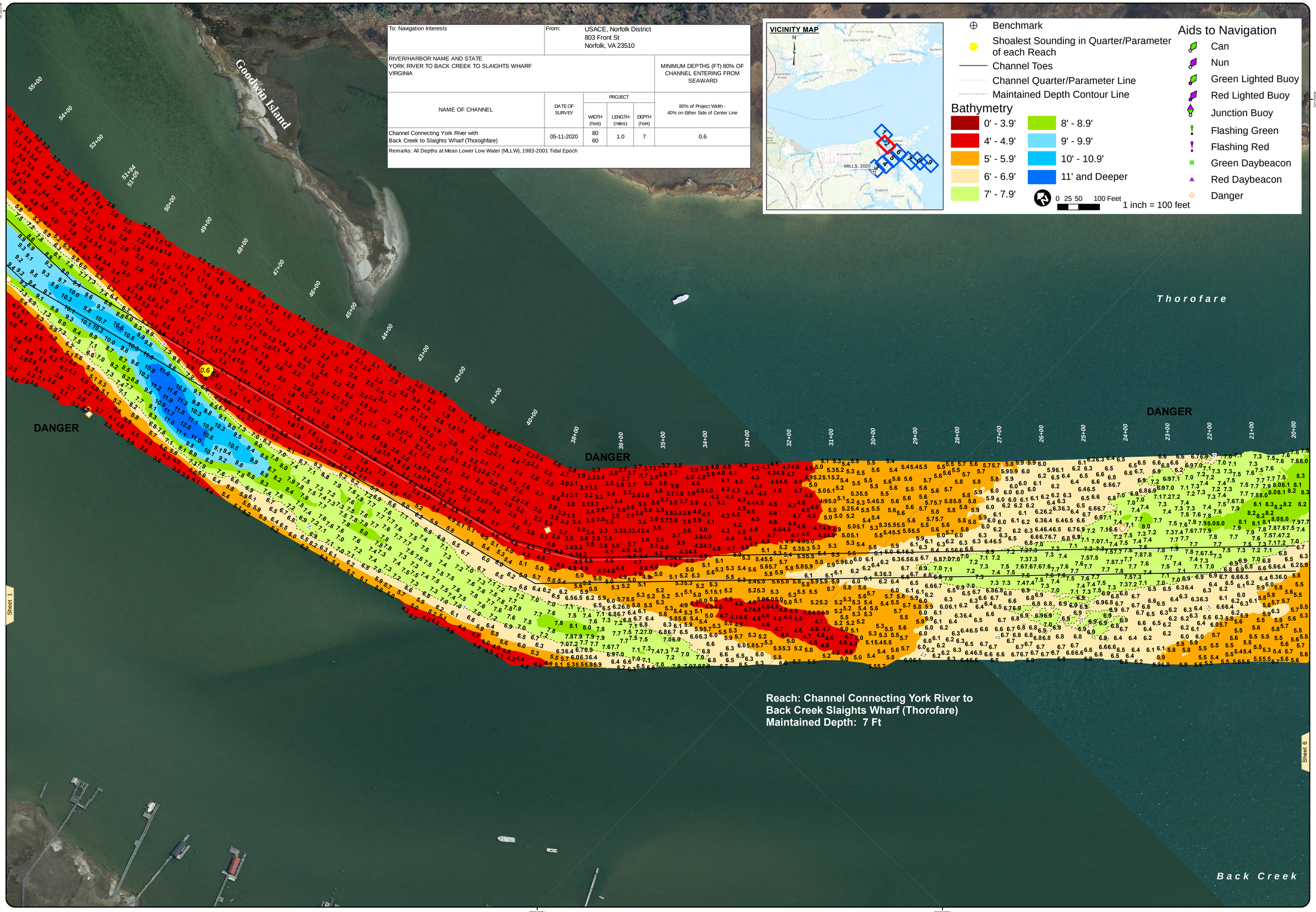
SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_Y2B_20200511_CS

SHEET 1 of 9
Map Produced: 6/25/2020

APPROVED:
Jeff Swallow
Digitally signed by Jeff Swallow
Date: 2020.07.14 15:13:43 -04'00'
Chief, Navigation Analysis Section

APPROVED:
Eric Legaspi
Digitally signed by Eric Legaspi
Date: 2020.07.15 13:23:54 -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 YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch					

VICINITY MAP

MILLS, 2020

- 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 AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 20 FT RADIUS GENERATED FROM HYDROSURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS 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
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 1 FOOT
HORIZONTAL CONTROL: MILLS, 2020

VERTICAL REFERENCE DATUM: NOS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE APPLICATION: PPK/NOAA VDATUM MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5x5'
BIN SELECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
Mills, 2020	3.83'	2.31'(GEOID18)	2.20':	20+00 to 74+00, 200+00 to 300+00, 500+00 to 566+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

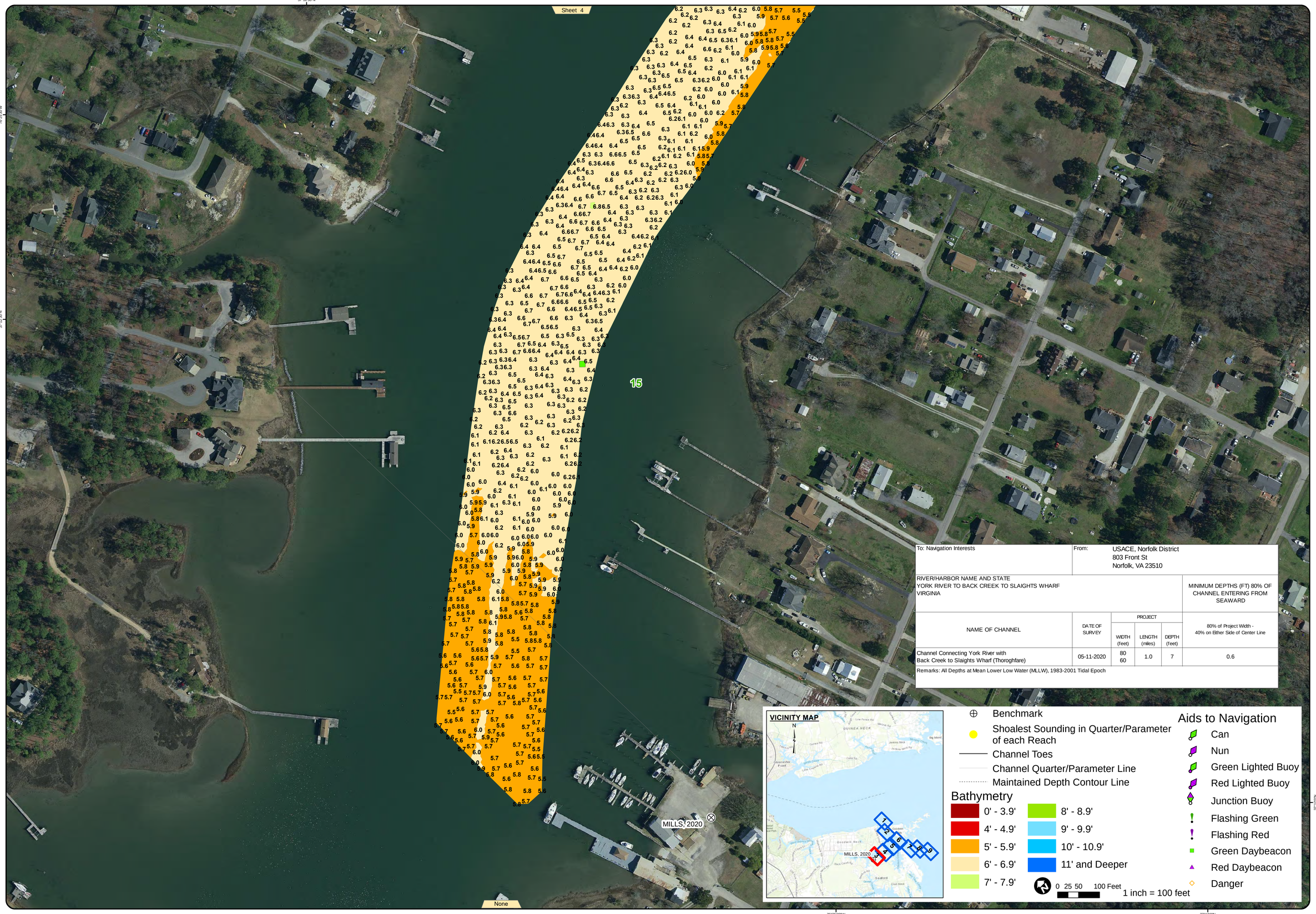
SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_Y2B_20200511_CS

SHEET 2 of 9
Map Produced: 6/26/2020

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510			
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch					

US Army Corps of Engineers Norfolk District

NOTES:

1. PROJECT: A CHANNEL 7 FEET DEEP AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 20 FT RADIUS GENERATED FROM HYDROSURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS 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
DATUM NAME: NAD83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
HORIZONTAL CONTROL: MILLS 2020

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE LAG LOCATION: PORTSMOUTH DATUM MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5X5
BIN SELECTION METHOD: AVERAGE CELL CENTER.

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE
Mills, 2020	3.63'	2.31'(GEOID18)	2.20'

AREA
20+00 to 37+00,
200+00 to 309+00,
500+00 to 566+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

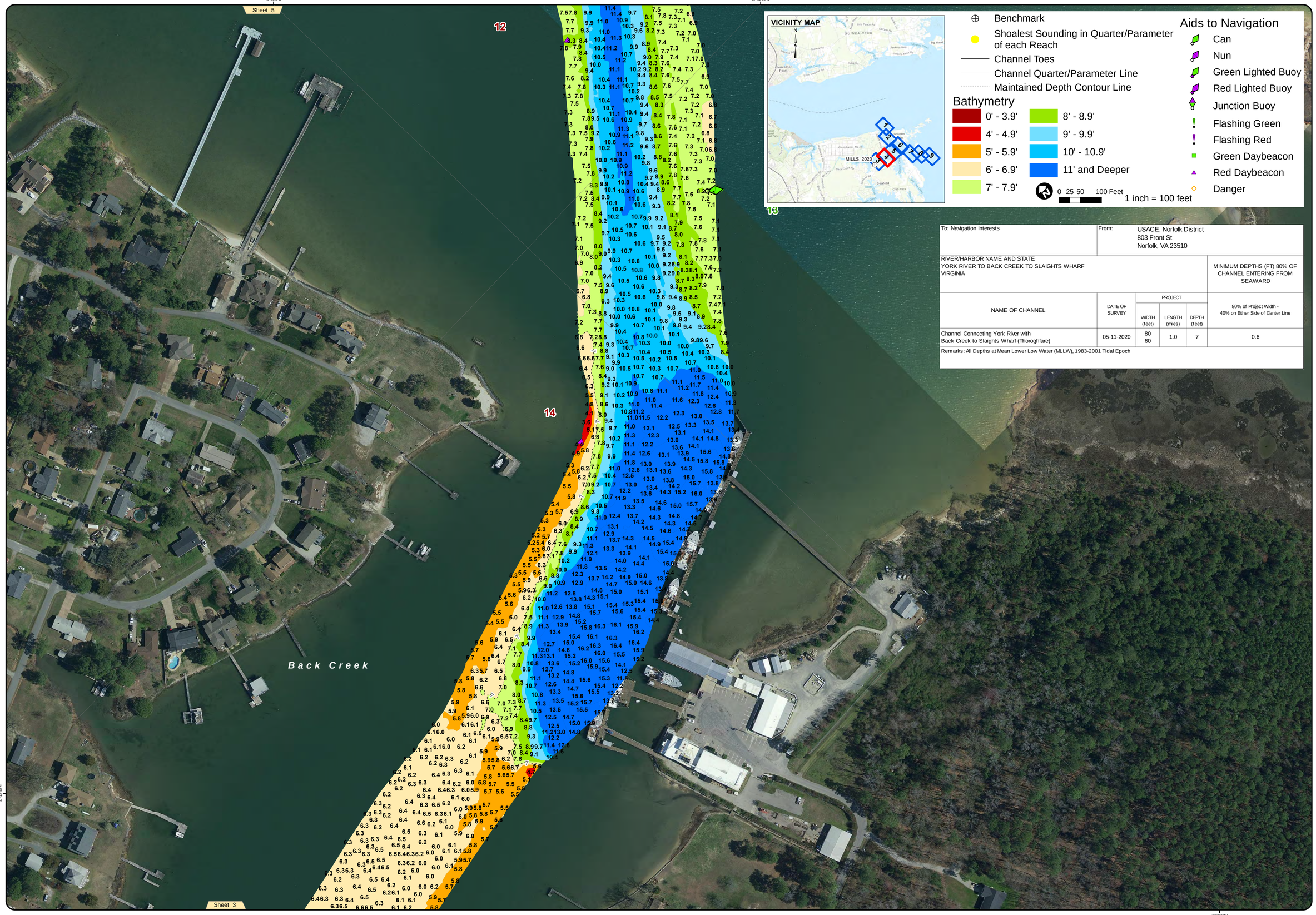
SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_YZB_20200511_CS

SHEET 3 of 9
Map Produced: 6/26/2020

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510				
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch					

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: A CHANNEL 7 FEET DEEP AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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 20 FT RADIUS GENERATED FROM HYDROSURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS 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
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 1 FOOT
HORIZONTAL CONTROL: MILLS, 2020

VERTICAL REFERENCE DATUM: NOS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE APPLICATION: PPK/NOAA VDATUM MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5x5'
BIN SELECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
Mills, 2020	3.83'	2.31'(GEOID18)	2.20':	20+00 to 74+00, 200+00 to 300+00, 500+00 to 566+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

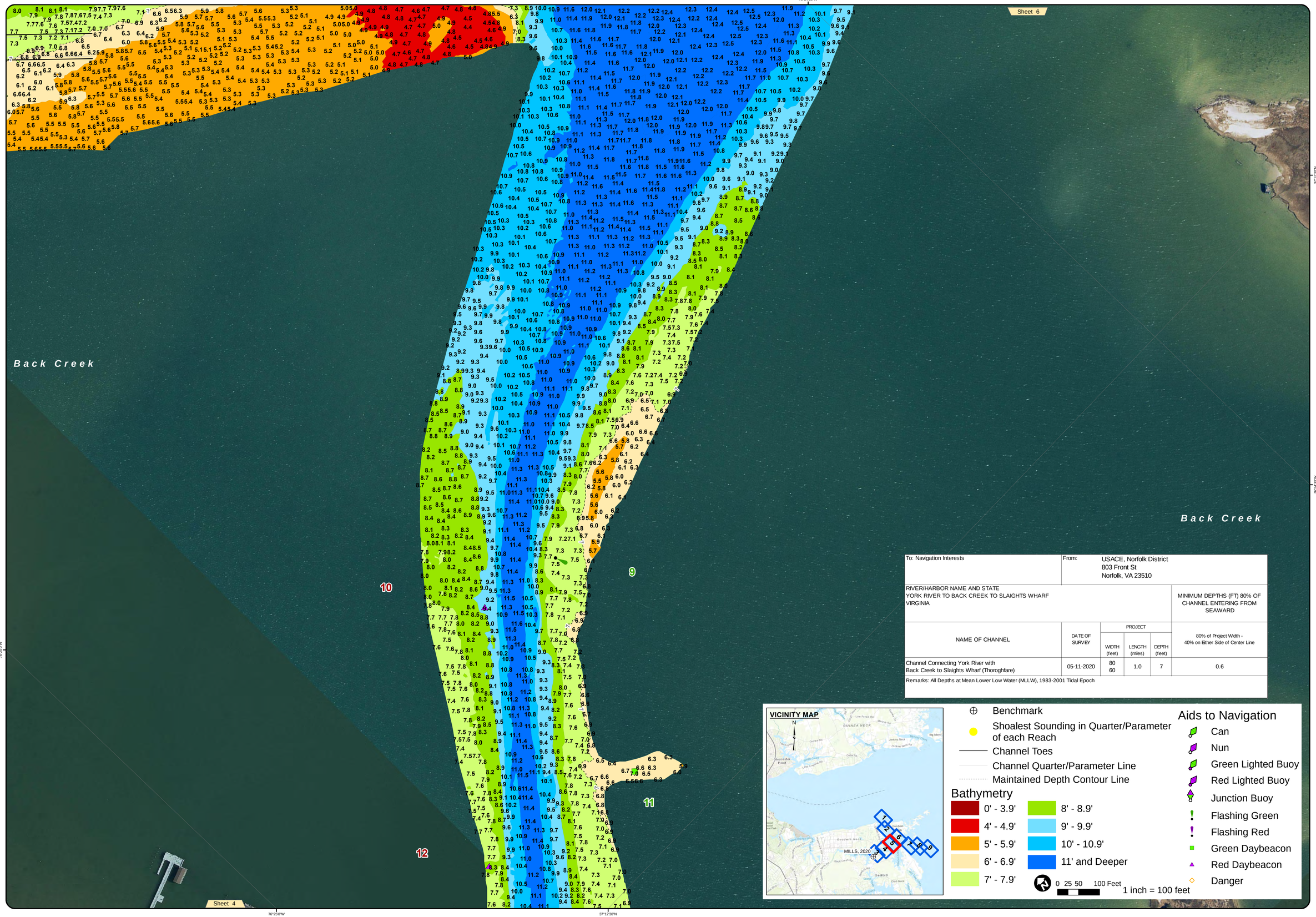
SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_Y2B_20200511_CS

SHEET 4 of 9
Map Produced: 6/25/2020

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510			
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch					

VICINITY MAP

- 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 AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 20 FT RADIUS GENERATED FROM HYDROSURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS 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
NAD83(2011)
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
HORIZONTAL ACCURACY: +/- 1.0 FEET
HORIZONTAL CONTROL: MILLS, 2020

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE ZONE: NORFOLK/SEWELLS POINT MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5'X5'
BIN SELECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
Mills, 2020	3.583	2.31 (GEOID18)	2.20'	20+00 to 71+00, 200+00 to 300+00, 500+00 to 556+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_YZB_20200531_CS

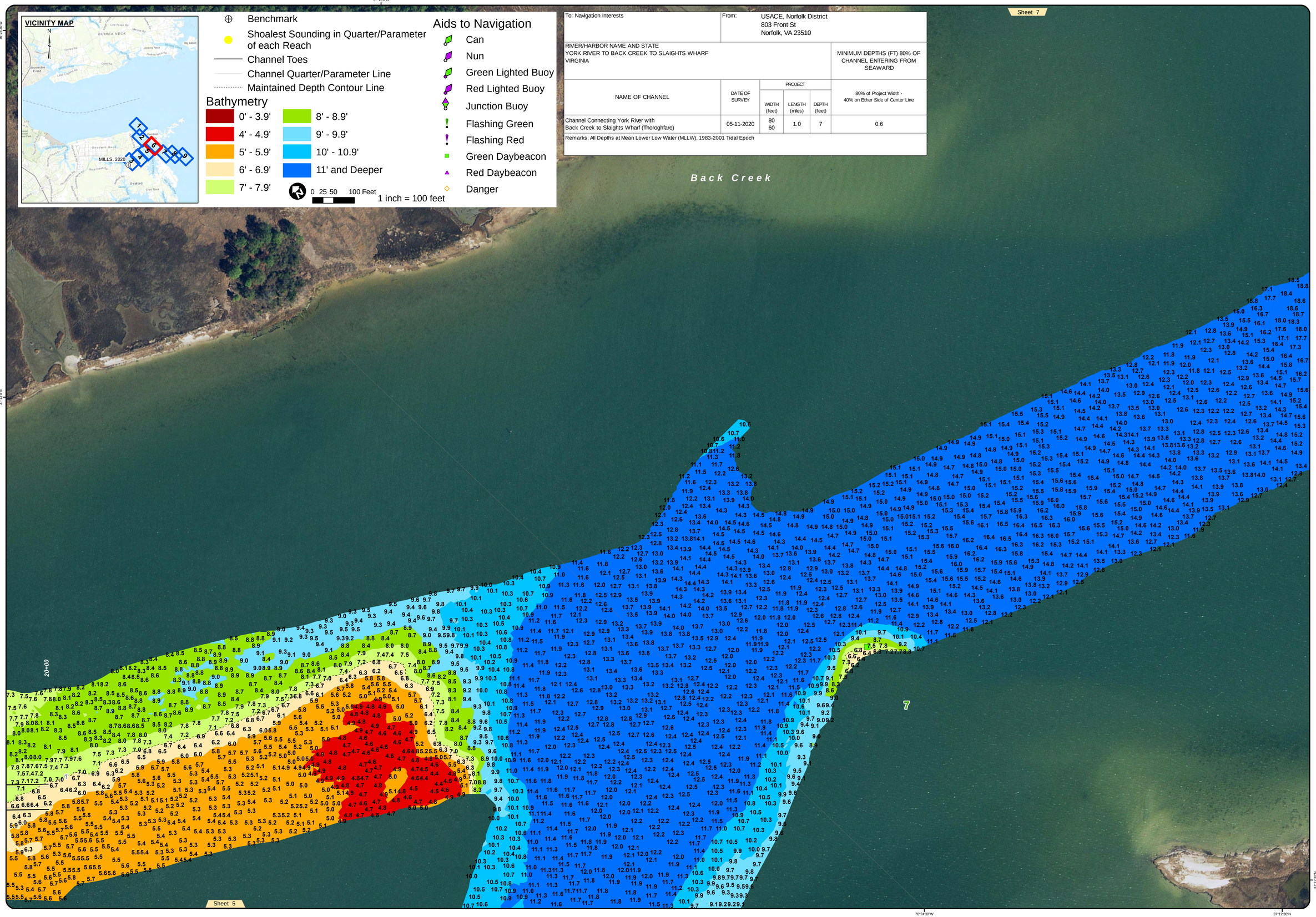
SHEET 5 of 9
Map Produced: 6/25/2020

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section



VICINITY MAP

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

To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510				
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch					

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: A CHANNEL 7 FEET DEEP AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
HORIZONTAL DATUM: NAD83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
HORIZONTAL CONTROL ACCURACY: +/- 1.0 FEET
HORIZONTAL CONTROL: MILLS, 2020

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE ZONE: NOAA ACCUM MDL
VESSEL: ULTI-BEAM
SYSTEM/METHOD: 5XS
BIN SIZE: AVERAGE CELL CENTER
BIN SELECTION METHOD:

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE
Mills, 2020	3.583	2.31 (GEOID18)	2.20'

AREA
20+00 to 71+00.
200+00 to 300+00.
500+00 to 566+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_YB_20200511_CS

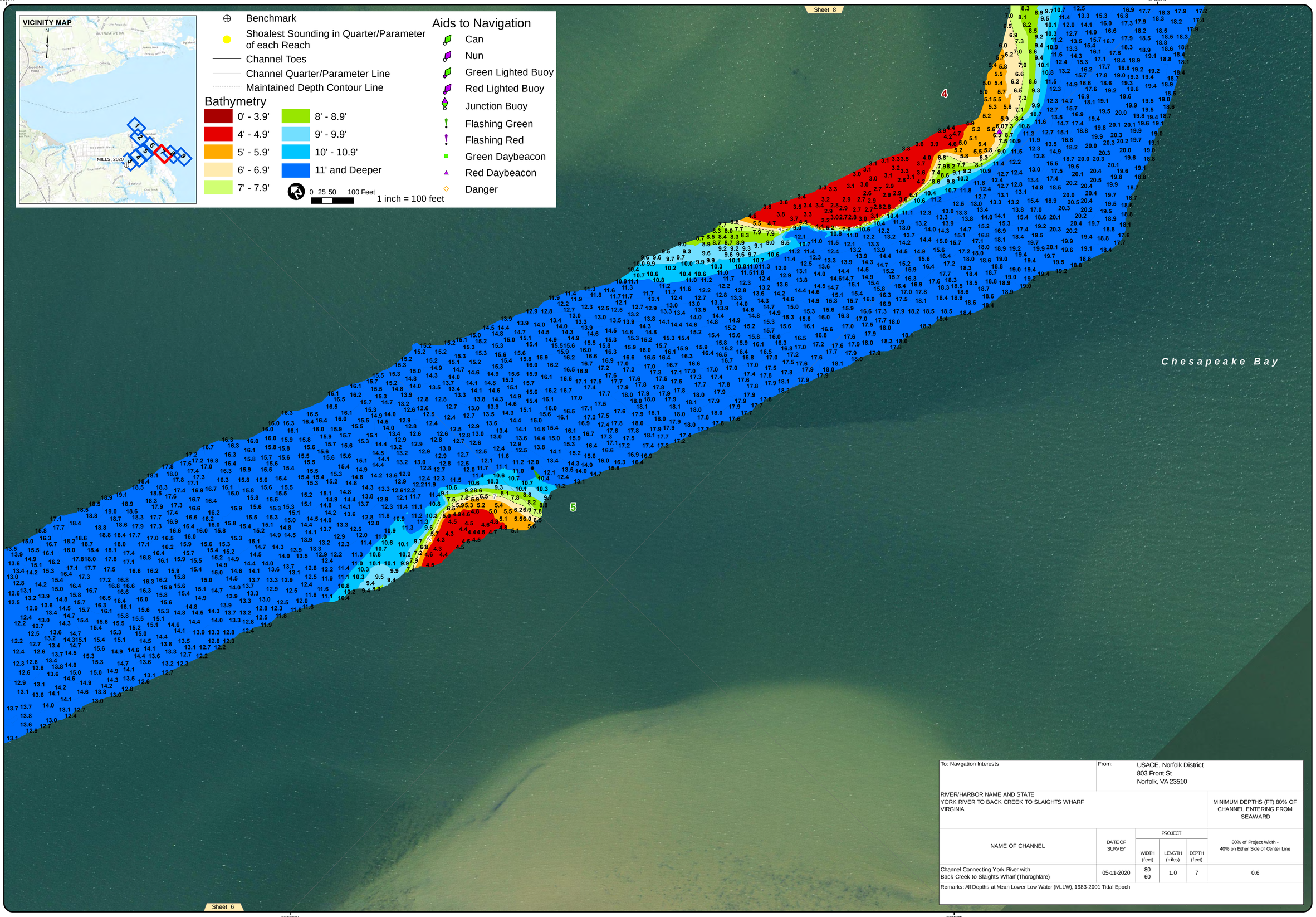
SHEET 6 of 9
Map Produced: 6/25/2020

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section



To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510				
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6

Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: A CHANNEL 7 FEET DEEP AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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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: +/- 1 FOOT
HORIZONTAL CONTROL: MILLS, 2020

VERTICAL REFERENCE DATUM: NOS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE APPLICATION: PPK/NOAA VDATUM MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5x5'
BIN SELECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
Mills, 2020	3.83'	2.31'(GEOID18)	2.20'	20+00 to 74+00, 200+00 to 300+00, 500+00 to 566+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

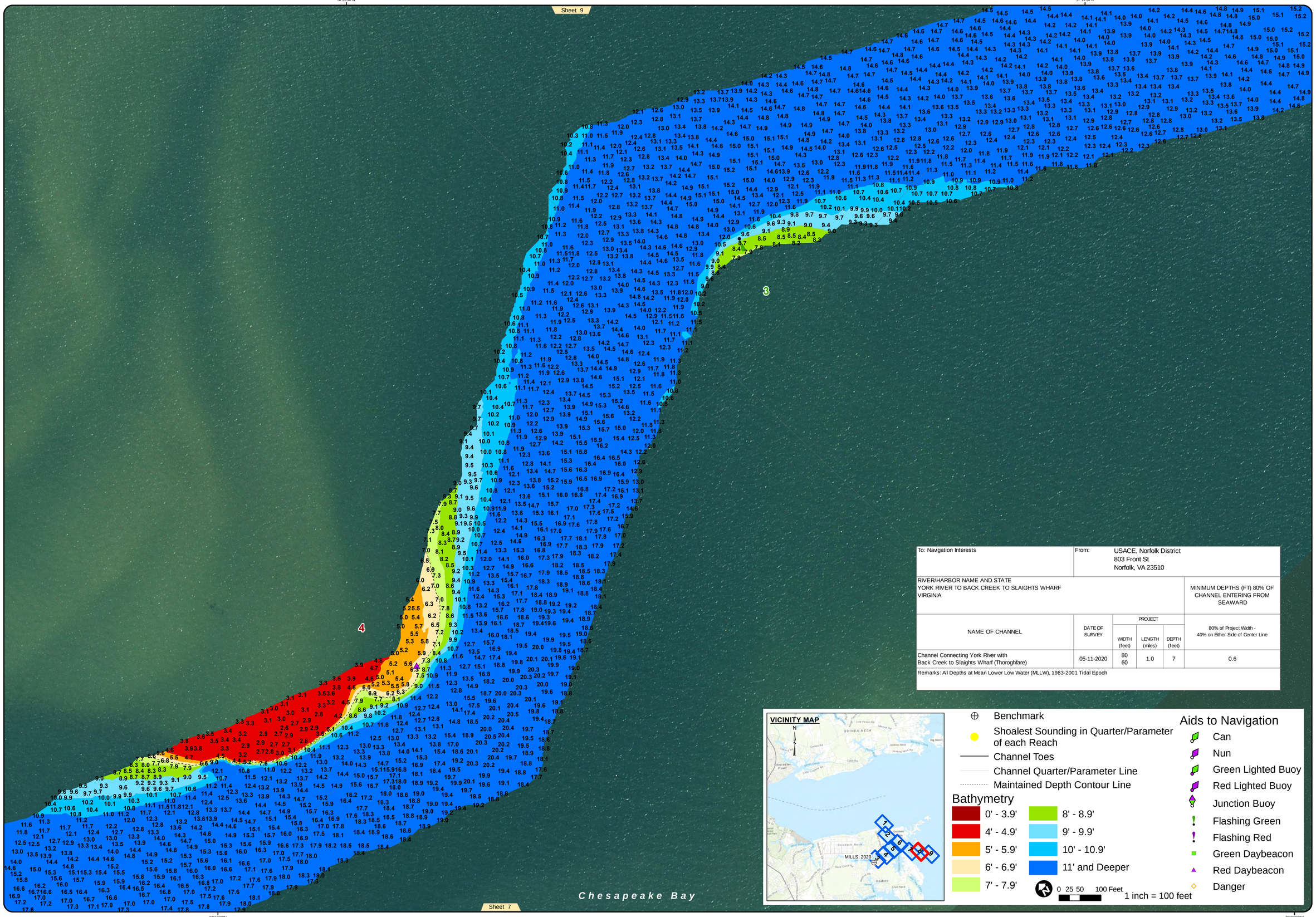
SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_Y2B_20200511_CS

SHEET 7 of 9
Map Produced: 6/25/2020

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510				
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch					

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 AT MEAN LOW WATER, 80 FEET WIDE ACROSS THE YORK RIVER FLATS AND 60 FEET WIDE THROUGH THE THOROFARE.
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 20 FT RADIUS GENERATED FROM HYDROSURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS 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.

VERTICAL REFERENCE DATUM: NGS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE APPLICATION: PPK/NOAA VDATUM MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5x5'
BIN SELECTION METHOD: AVERAGE CELL CENTER

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 1 FOOT
HORIZONTAL CONTROL: MILLS, 2020

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
Mills, 2020	3.83'	2.31'(GEOID18)	2.20'	20+00 to 74+00, 200+00 to 300+00, 500+00 to 566+00

CHANNEL CONNECTING YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF PROJECT CONDITION SURVEY

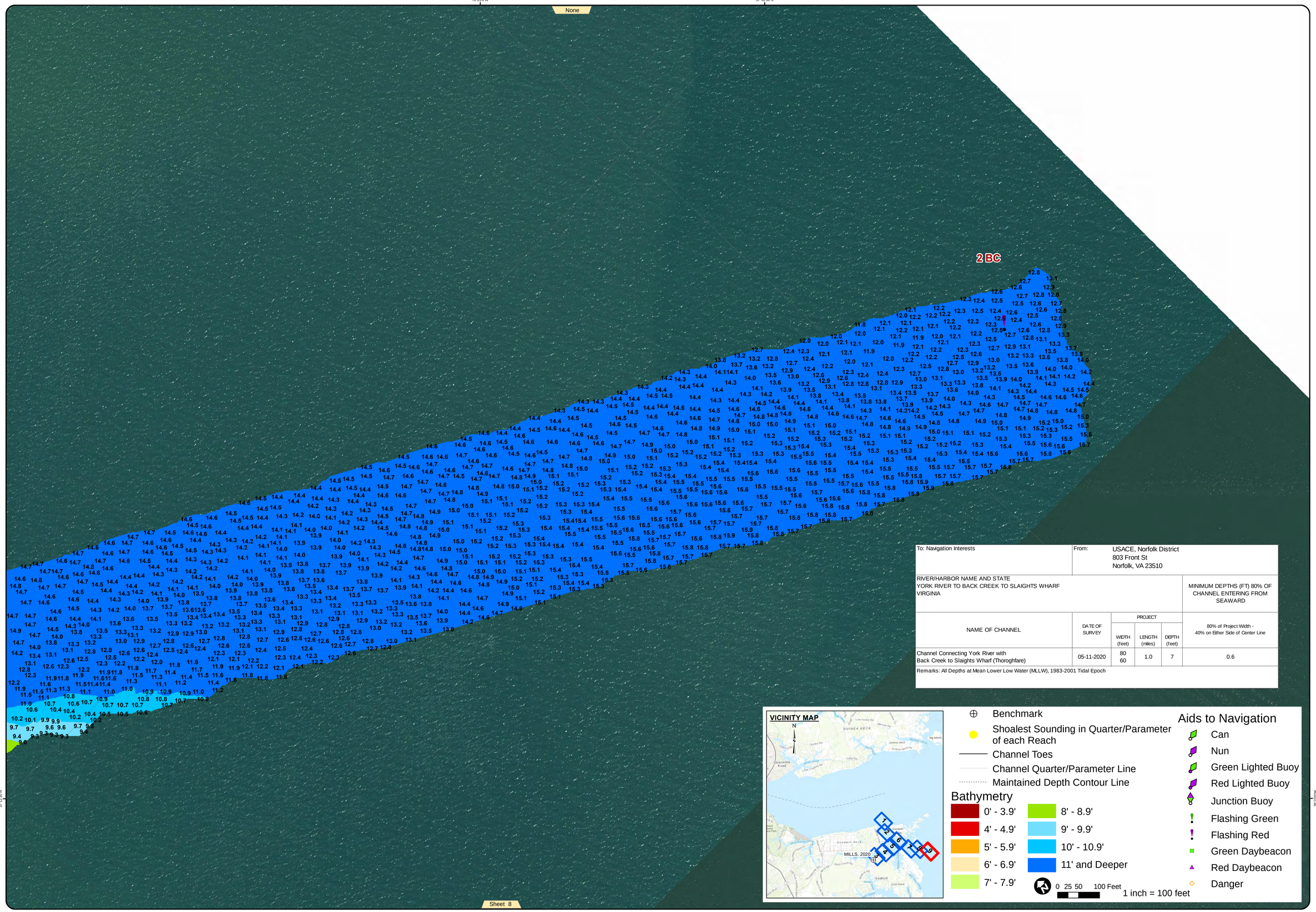
SURVEY DATES:
May 11, 18, 27 & 28, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
eHYDRO FILE: YB_01_Y2B_20200511_CS

SHEET 8 of 9
Map Produced: 6/25/2020

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section



To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510				
RIVER/HARBOR NAME AND STATE YORK RIVER TO BACK CREEK TO SLAIGHTS WHARF VIRGINIA					MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Channel Connecting York River with Back Creek to Slaights Wharf (Thoroghfare)	05-11-2020	80 60	1.0	7	0.6
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IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: PPK/POSPAC
TIDE APPLICATION: PPK/NOAA VDATUM MDL
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eHYDRO FILE: YB_01_Y2B_20200511_CS

SHEET 9 of 9
Map Produced: 6/25/2020

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