

Bathymetry

0' - 1.9'	7' - 7.9'
2' - 3.9'	8' - 8.9'
4' - 4.9'	9' - 10.9'
5' - 5.9'	11' and Deeper
6' - 6.9'	

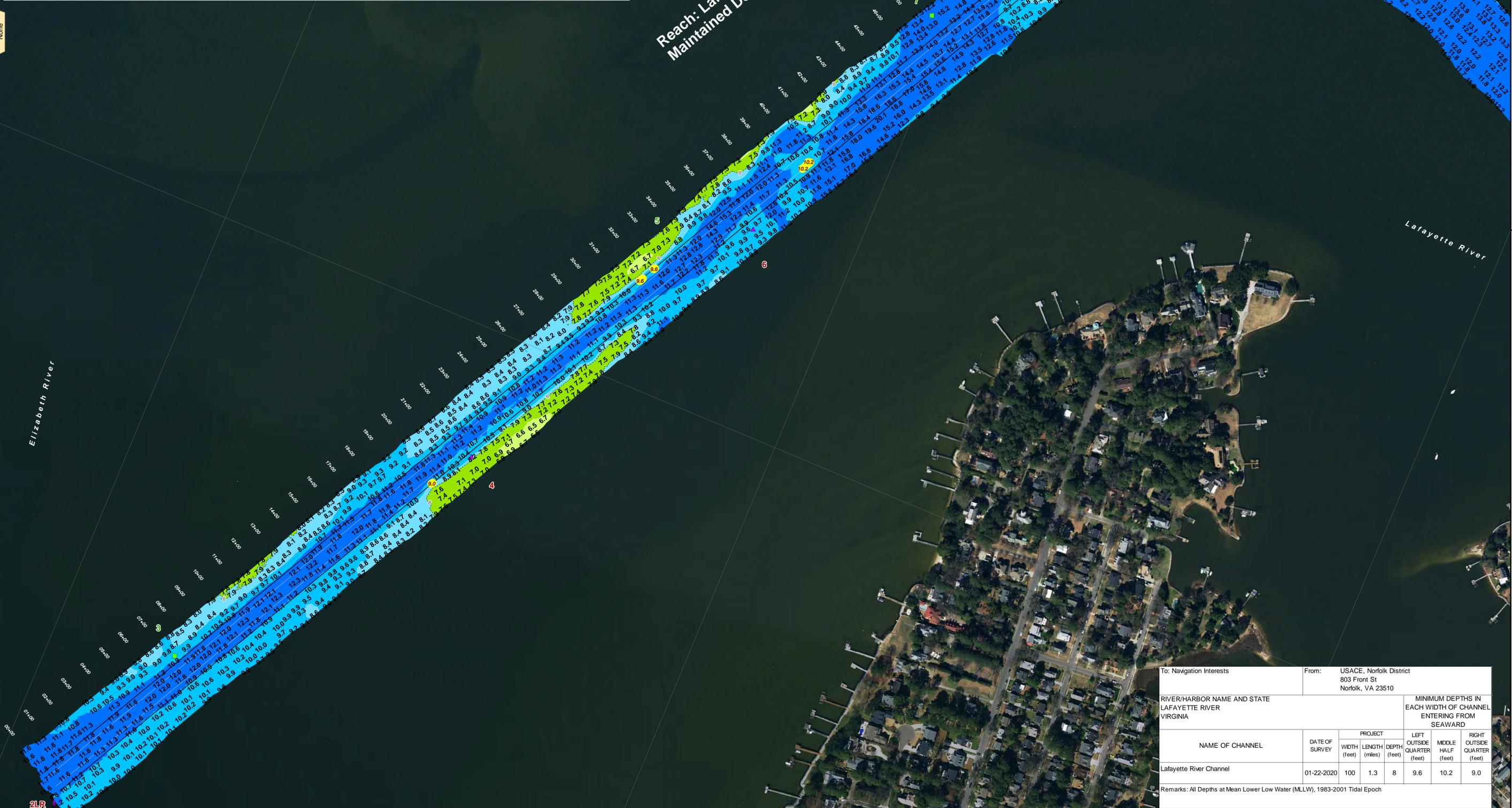
0 50 100 200 Feet
1 inch = 200 feet

Aids to Navigation

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

Channel Features

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



NOTES:

- PROJECT CHANNEL MAINTAINED AT A DEPTH OF 8 FT AND WIDTH OF 100 FT FROM DEEP WATER IN HAMPTON ROADS BRIDGE, THENCE 6 FT AND 100 FT WIDE FOLLOWING THE 8 FT CONTOUR TO THE GRANBY STREET BRIDGE.
- NOT FOR NAVIGATION USE - THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. HYDRO SURVEY DATA.
- SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 28 FT RADII GENERATED FROM HYDRO SURVEY DATA.
- BACKGROUND VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS WEB SERVICE.
- AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.
- SURVEY XYZ (.XYZ) AND METADATA (.M) FILE NAME REFERENCED BY #HYDRO FILE NAME.

VERTICAL REFERENCE DATUM	STATE PLANE	MONUMENT	MLLW	MEAN RANGE OF TIDE	AREA
1983-2001	NAD 83 SOUTH ZONE	"LRA 2, 2003 (Ragpole)"	6.53'	2.63'	00+00 to 130+00
IMPLIED VERTICAL ACCURACY:	US SURVEY FEET	CE "R. Williams, 2007"	5.21'	2.63'	130+00 to 213+00
VERTICAL CONTROL:	LEICA SMART NET				
TIDE APPLICATION:	LEICA SMART NET				
RTK/NOVA DATUM MDL					
5X5'					
BIN SIZE					
BIN SELECTION METHOD:					
AVERAGE CELL CENTER					

To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510						
RIVER/HARBOR NAME AND STATE LAFAYETTE RIVER VIRGINIA							
MINIMUM DEPTHS IN EACH WIDTH OF CHANNEL ENTERING FROM SEAWARD							
NAME OF CHANNEL	DATE OF SURVEY	PROJECT WIDTH (feet)	PROJECT LENGTH (miles)	PROJECT DEPTH (feet)	LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
Lafayette River Channel	01-22-2020	100	1.3	8	9.6	10.2	9.0
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch							

LAFAYETTE RIVER CHANNEL
PROJECT CONDITION SURVEY

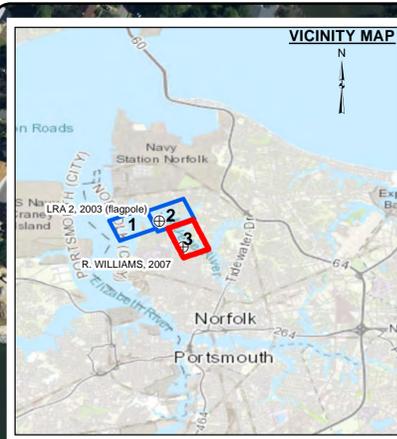
SURVEY DATES:
January 22 & 23, 2020

HYDRO FILE: LR_01_LFR_20200222_CS

SHEET 1 of 3
Map Produced: 3/2/2020

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Navigation Support and Survey Section



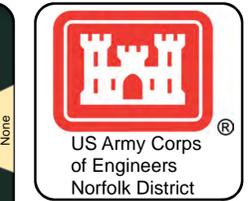
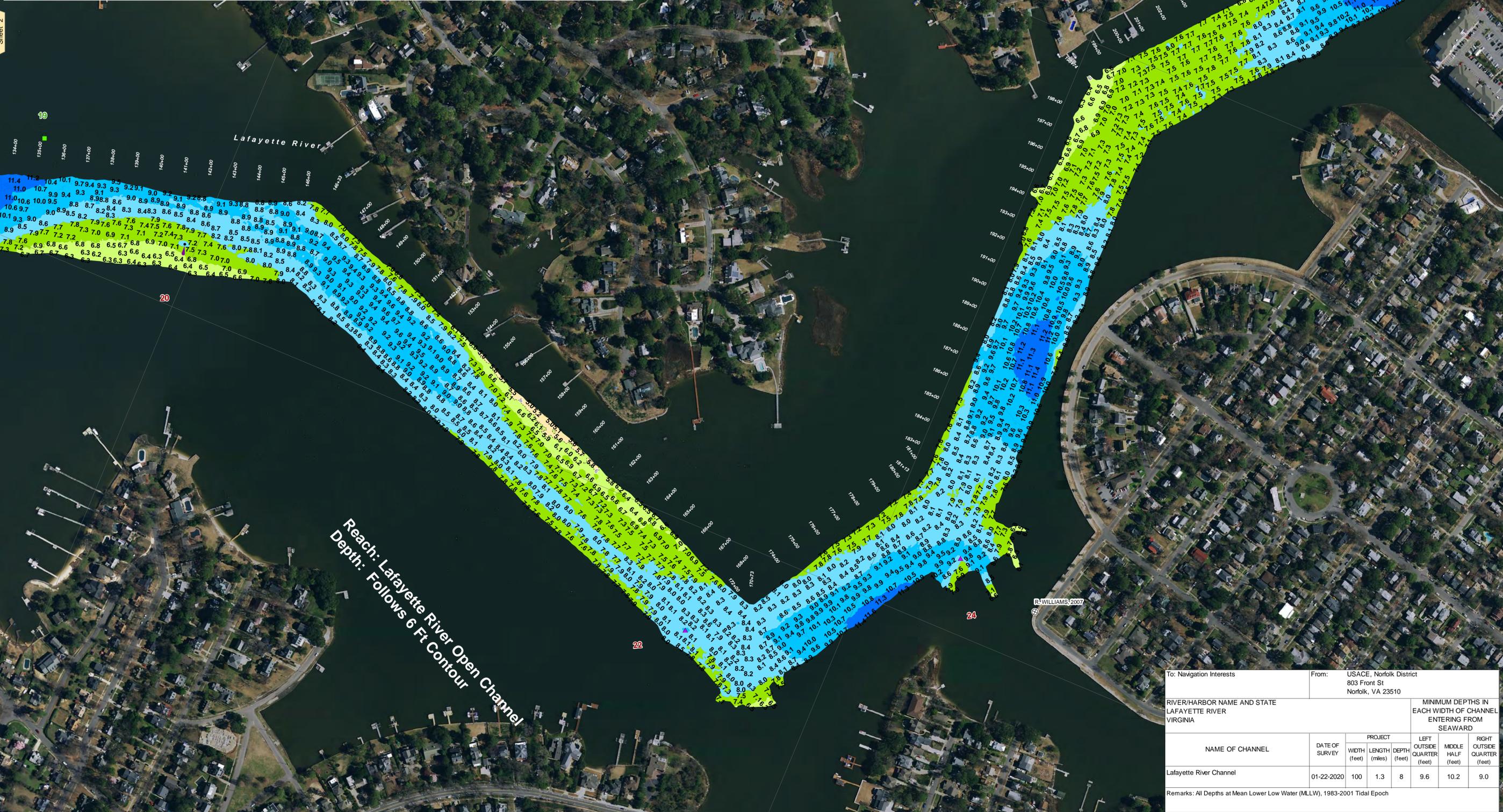
Bathymetry

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Aids to Navigation

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- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger

0 50 100 200 Feet
1 inch = 200 feet



NOTES:

- PROJECT CHANNEL MAINTAINED AT A DEPTH OF 6 FT AND WIDTH OF 100 FT FROM DEEP WATER IN HAMPTON ROADS BRIDGE, THENCE 6 FT AND 100 FT WIDE FOLLOWING THE 6 FT CONTOUR TO THE GRANBY STREET BRIDGE.
- NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. HYDRO SURVEY DATA.
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- AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.
- SURVEY XYZ (.XYZ) AND METADATA (.M) FILE NAME REFERENCED BY #HYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM:		STATE PLANE		GEOIDETIC CONTROL MONUMENTS	
DATUM NAME:	NAD 83	MONUMENT:	MLW	MONUMENT:	MLW
ZONE:	18N	MONUMENT:	6.53'	MONUMENT:	5.21'
PROJ. HORIZ. ACCURACY:	+/- 1 FOOT	MONUMENT:	4.82'(GEOID09)	MONUMENT:	3.49'(GEOID09)
PROJ. VERT. ACCURACY:	+/- 1 FOOT	MONUMENT:	NAVD88	MONUMENT:	NAVD88
HORIZONTAL CONTROL:	LEICA SMART NET	MEAN RANGE OF TIDE:	2.63'	MEAN RANGE OF TIDE:	2.63'
VERTICAL CONTROL:	RTK/LEICA SMART NET	AREA:	00+00 to 130+00	AREA:	130+00 to 213+00
TIDE APPLICATION:	LEICA SMART NET				
BIN SIZE:	5x5'				
BIN SELECTION METHOD:	AVERAGE CELL CENTER				

To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510						
RIVER/HARBOR NAME AND STATE LAFAYETTE RIVER VIRGINIA							
MINIMUM DEPTHS IN EACH WIDTH OF CHANNEL ENTERING FROM SEAWARD							
NAME OF CHANNEL	DATE OF SURVEY	PROJECT					
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
Lafayette River Channel	01-22-2020	100	1.3	8	9.6	10.2	9.0
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch							

LAFAYETTE RIVER CHANNEL
PROJECT CONDITION SURVEY

SURVEY DATES:
January 22 & 23, 2020

SURVEY BY: USACE Team Lead: Joseph N. Moore Jr.
#HYDRO FILE LR_01_LFR_20200122_CS

SHEET 3 of 3
Map Produced: 3/2/2020

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Navigation Support and Survey Section