

**REPORT OF CHANNEL CONDITIONS
(FOR CHANNELS 400 FEET WIDE OR GREATER)**

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DATE 07 March 2023

TO: The Record

FROM: U.S. Army Corps of Engineers
26 Federal Plaza, ATTN: CENAN-OP-ST
New York, NY 10278-0090

RIVER/HARBOR NAME AND STATE:
Buttermilk Channel, New York

**MINIMUM DEPTHS IN EACH ¼ WIDTH OF
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
Reach A (Southern Portion of 40 Ft. Half of Main Channel): From the junction with the Anchorage Channel at the approximate location of RED #32 W/ LIGHT to channel's first bend approximately 2,400 feet landward of GREEN #1 W/LIGHT & GONG.	File#5251; Pgs. 2 & 4 of 5; 15, 21, 22, 28, 29 Dec. 2022; 03 Jan. 2023	500	0.95	40	39.9	40.2	39.5	39.9
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 2,400 feet landward of GREEN #1 W/ LIGHT & GONG to the channel's junction with East River, approximately 4,400 feet landward from channel's second bend.	File#5251; Pgs. 4 & 5 of 5; 15, 21, 22, 28, 29 Dec. 2022; 03 Jan. 2023	500	1.30	40	40.4	39.2	39.7	35.0
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From RED # 32 W/LIGHT EBB landward to GREEN #11 W/ LIGHT & GONG.	File#5251; Pg. 2 of 5; 15, 21, 22, 28, 29 Dec. 2022; 03 Jan. 2023	Irregular	Irregular	35	34.8			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at approximately 2,820 feet seaward of GREEN #1 W/ LIGHT & GONG to channel's first bend approximately 2,470 feet landward of the same.	File#5251; Pgs. 2 & 4 of 5; 15, 21, 22, 28, 29 Dec. 2022; 03 Jan. 2023	500	0.83	35	35.2	35.1	35.1	35.3
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 2,470 feet landward of GREEN #1 W/ LIGHT & GONG to the channel's junction with East River, approximately 3,700 feet landward from second bend in the channel.	File#5251; Pgs. 4 & 5 of 5; 15, 21, 22, 28, 29 Dec. 2022; 03 Jan. 2023	500	1.20	35	33.6	35.5	35.9	37.0
Reach F: Widening at junction with Anchorage Channel to approximately GREEN #1 W/ LIGHT & GONG.	File#5251; Pgs. 2 & 3 of 5; 15, 21, 22, 28, 29 Dec. 2022; 03 Jan. 2023	Irregular	Irregular	35	35.2			
Reach G: Widening at junction with East River, commencing approximately 2,200 feet landward from second bend of the channel.	File#5251; Pg. 5 of 5; 15, 21, 22, 28, 29 Dec. 2022; 03 Jan. 2023	Irregular	Irregular	35	35.0			

REMARKS:

- All reported depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.

BUTTERMILK CHANNEL

- **Reach A:** Edge shoaling exists in the Right Outside Quarter and Left Outside Quarter. Spot shoaling exists in the Right Inside Quarter. The controlling depth of -39.5 feet MLLW exists in the Right Inside Quarter at the end of the reach.

BUTTERMILK CHANNEL:

- **Reach B:** Edge shoaling exists in the Left Inside Quarter near the end of this reach. Shoaling exists along the edge of the Right outside quarter. The controlling depth of -35.0 feet MLLW exists in the Right Outside Quarter along the channel's toe, approximately 250 feet seaward of the end of the reach.
- **Reach C:** Some spot shoaling exists near the center of this reach. The controlling depth of -34.8 feet MLLW exists in the vicinity of the southernmost corner, approximately 2,850 feet northeast of RED #32 W/ LIGHT.
- **Reach D:** No shoaling exists in this reach. A depth of at least -35.0 feet MLLW exists within the entire Reach.
- **Reach E:** Sporadic edge shoaling exists in the Left Outside Quarter of this reach. The controlling depth of -33.6 feet MLLW exists in the Left Outside Quarter of this reach, near the channel's toe, approximately 2,850 feet landward of the beginning of the Reach and 2,420 feet from the landward end of Reach E.
- **Reach F:** No shoaling exists in this reach. A depth of at least -35.0 feet MLLW exists within the entire Reach.
- **Reach G:** No shoaling exists in this reach. The controlling depth of -35.0 feet MLLW exists at the approximate location of the junction with the East River.