

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

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DATE 20 May 2025

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 EBB, to channel's first bend approximately 2,430 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD.	File #5578/D Pgs. 2 & 4 of 5; 24, 28 – 30 April 2025	500	0.94	40	39.9	40.3	40.4	39.9
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 2,430 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD, to the channel's junction with East River, approximately 4,030 feet landward of CAN #7 FLOOD.	File #5578/D Pgs. 4 & 5 of 5; 24, 28 – 30 April 2025	500	1.30	40	40.8	39.4	40.1	34.7
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From the approximate location of RED #32 W/ LIGHT EBB, to the approximate location of GREEN #11 W/LIGHT AND GONG FLOOD.	File #5578/D Pg. 2 of 5; 24, 28 – 30 April 2025	Irregular	Irregular	35	32.9			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at approximately 2,585 feet seaward of GREEN #1 W/ LIGHT & GONG FLOOD, to channel's first bend approximately 2,430 feet landward of the same.	File #5578/D Pgs. 2 - 4 of 5; 24, 28 – 30 April 2025	500	0.83	35	33.7	34.0	34.7	35.5
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 2,430 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD, to the channel's junction with East River, approximately 3,615 feet landward of CAN #7 FLOOD.	File #5578/D Pgs. 4 & 5 of 5; 24, 28 – 30 April 2025	500	1.20	35	31.8	35.7	37.7	36.9
Reach F: Widening at junction with Anchorage Channel to approximately GREEN #1 W/ LIGHT & GONG FLOOD.	File #5578/D Pgs. 2 & 3 of 5; 24, 28 – 30 April 2025	Irregular	Irregular	35	34.4			
Reach G: Widening at junction with East River, commencing approximately 2,200 feet landward of CAN #7 FLOOD.	File #5578/D Pg. 5 of 5; 24, 28 – 30 April 2025	Irregular	Irregular	35	35.2			

REMARKS:

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

BUTTERMILK CHANNEL:

- **Reach A:** Authorized depth is available in all four quarters of the channel for much of this reach; however spot shoaling does exist in the Left Outside Quarter of the channel, as well as shoaling along the channel's toe in the Right Outside Quarter of the channel. The controlling depth of -39.9 feet MLLW exists along the channel's toe in the Right Outside Quarter at a point approximately 2,565 feet landward of the beginning of the reach; as well as in the Left Outside Quarter at a point approximately 1,500 feet landward of GREEN #1 W/LIGHT & GONG FLOOD.
- **Reach B:** Authorized depth is available in all four quarters of the channel for much of this reach; however spot shoaling does exist in the Right Outside and Left Inside Quarters of the channel towards the end of this reach. The controlling depth of -34.7 feet MLLW exists in the Right Outside Quarter along the channel's toe, approximately 240 feet seaward of the end of the reach.
- **Reach C:** Authorized depth is available for much of this reach; however shoaling exists in the south eastern portion of the widening in the vicinity of GREEN #11 W/ LIGHT & GONG FLOOD. The controlling depth of -32.9 feet MLLW is located at a point approximately 315 feet seaward (west) of GREEN #11 W/ LIGHT & GONG FLOOD.
- **Reach D:** Shoaling exists sporadically in the Left Outside, Left Inside, and Right Inside Quarters of this reach, beginning at the approximate location of GREEN #1 W/ LIGHT & GONG FLOOD and extending towards the end of this reach. The controlling depth of at least -33.7 feet MLLW exists along the channel's toe in the Left Outside Quarter at a point approximately 730 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD.
- **Reach E:** Authorized depth is available in all four quarters of the channel for much of this reach; however shoaling does exist in multiple locations in the Left Outside Quarter towards the toe of the channel. The controlling depth of -31.8 feet MLLW exists along the toe of the channel in the Left Outside Quarter of this reach, adjacent to CAN #5 FLOOD.
- **Reach F:** Authorized depth is available for much of this reach; with the exception of some shoaling along the edge of the easternmost boundary of the widening. The controlling depth of -34.4 feet MLLW is located at a point approximately 85 feet northwest of GREEN #1 W/ LIGHT & GONG FLOOD.
- **Reach G:** No shoaling exists in this reach. Authorized depth is available throughout this entire reach.