

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

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DATE 27 March 2018

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
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 approximately 3,000 feet seaward of GREEN #1 W/ LIGHT & GONG EBB; to channel's first bend approximately 2,500 feet landward of the same.	Map 116 Pg. 1 of 2; 8, 12, 13 February 2018	500	0.95	40	39.6	39.5	39.4	39.1
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 2,500 feet landward of GREEN #1 W/ LIGHT AND GONG EBB; to the channel's junction with East River, approximately 3,800 feet landward of GREEN CAN #7 EBB.	Map 116 Pg. 1 & 2 of 2; 8, 12, 13 February 2018	500	1.30	40	40.3	38.6	39.5	34.7
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From approximately 4,000 feet seaward of GREEN #11 W/LIGHT EBB to the vicinity of the same.	Map 116 Pg. 1 of 2; 8, 12, 13 February 2018	Irregular	Irregular	35	26.0			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at approximately 2,500 feet seaward of GREEN #1 W/ LIGHT & GONG EBB; to channel's first bend approximately 2,500 feet landward of the same.	Map 116 Pg. 1 of 2; 8, 12, 13 February 2018	500	0.83	35	33.8	34.0	34.2	34.7
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 2,500 feet landward of GREEN #1 W/ LIGHT AND GONG EBB; to the channel's junction with East River, approximately 3,500 feet landward of GREEN CAN #7 EBB.	Map 116 Pg. 1 & 2 of 2; 8, 12, 13 February 2018	500	1.20	35	33.7	35.4	37.1	36.7
Reach F: Widening at junction with Anchorage Channel to approximately GREEN #1 W/ LIGHT & GONG EBB.	Map 116 Pg. 1 of 2; 8, 12, 13 February 2018	Irregular	Irregular	35	33.6			
Reach G: Widening at junction with East River to about 2,000 feet landward of GREEN CAN #7 EBB.	Map 116 Pg. 2 of 2; 8, 12, 13 February 2018	Irregular	Irregular	35	35.5			

REMARKS:

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

BUTTERMILK CHANNEL

- **Reach A:** Spot shoaling exists throughout the Right Outside, Right Inside, and Left Inside Quarters of the reach, from approximately 1,200 feet seaward of GREEN #1 W/ LIGHT & GONG EBB until approximately 200 feet seaward of the same. Spot shoaling also exists in the Left Outside Quarter of the channel approximately 550 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and approximately 1,100 feet seaward of the end of the reach.

BUTTERMILK CHANNEL:

- **Reach B:** Shoaling exists along the channel's toe in the Right Outside Quarter, commencing approximately 1,050 feet seaward of the end of the reach and continues until approximately 130 feet seaward of the same, with a maximum width of approximately 115 feet.
- **Reach C:** Spot Shoaling exists in the reach, commencing approximately 2,000 feet northwest of GREEN #11 W/ LIGHT EBB and continues until approximately 1,500 feet northwest of the same. Shoaling exists in this reach commencing approximately 750 feet northwest of GREEN #11 W/ LIGHT EBB and continues until approximately 250 feet northwest of the same.
- **Reach D:** Shoaling exists in the Right and Left Inside and Left Outside Quarters of the reach commencing approximately 325 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and continues until approximately 1,000 feet seaward of the end of the reach. Spot shoaling exists in the Right Outside and Inside Quarters of the channel, throughout the same distances.
- **Reach E:** No shoaling exists in this reach.
- **Reach F:** Shoaling exists in the eastern corner of the reach, commencing approximately 150 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and continuing until approximately 50 feet landward of the same, with a maximum width of approximately 170 feet. Edge shoaling exists along the northern toe of the reach from approximately 770 feet north of GREEN #1 W/ LIGHT & GONG EBB until the vicinity of the same.
- **Reach G:** No shoaling exists in this reach.