

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

**PAGE** 1 **OF** 2

**DATE** 12 July 2019

**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)				
<b>Reach A (Southern Portion of 40 Ft. Half of Main Channel):</b> 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 117 Pg. 1 of 2; 28 Feb., 01, 21, 27-29 Mar. & 02 Apr. 2019	500	0.95	40	39.0	38.8	39.0	38.9
<b>Reach B (Northern Portion of 40 Ft. Half of Main Channel):</b> From channel's first bend approximately 2,500 feet landward of GREEN #1 W/ LIGHT & GONG EBB; to the channel's junction with East River, approximately 3,800 feet landward of the buoy located at the channel's third bend.	Map 117 Pg. 1 & 2 of 2; 28 Feb., 01, 21, 27-29 Mar. & 02 Apr. 2019	500	1.30	40	41.1	38.9	40.1	34.9
<b>Reach C:</b> Widening at junction with Red Hook Channel and Anchorage Channel. From the beginning of Reach A to a point approximately 4,350 feet landward of the same.	Map 117 Pg. 1 of 2; 28 Feb., 01, 21, 27-29 Mar. & 02 Apr. 2019	Irregular	Irregular	35	29.3			
<b>Reach D (Southern Portion of 35 Ft. Half of Main Channel):</b> 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 117 Pg. 1 of 2; 28 Feb., 01, 21, 27-29 Mar. & 02 Apr. 2019	500	0.83	35	33.0	33.2	33.8	34.4
<b>Reach E (Northern Portion of 35 Ft. Half of Main Channel):</b> From channel's first bend approximately 2,500 feet landward of GREEN #1 W/ LIGHT & GONG EBB; to the channel's junction with East River, approximately 3,700 feet landward of the buoy located at the channel's third bend.	Map 117 Pg. 1 & 2 of 2; 28 Feb., 01, 21, 27-29 Mar. & 02 Apr. 2019	500	1.20	35	32.2	33.1	37.1	36.5
<b>Reach F:</b> Widening at junction with Anchorage Channel to approximately GREEN #1 W/ LIGHT & GONG EBB.	Map 117 Pg. 1 of 2; 28 Feb., 01, 21, 27-29 Mar. & 02 Apr. 2019	Irregular	Irregular	35	33.4			
<b>Reach G:</b> Widening at junction with East River, commencing approximately 2,100 feet landward of the buoy located at the channel's third bend.	Map 117 Pg. 2 of 2; 28 Feb., 01, 21, 27-29 Mar. & 02 Apr. 2019	Irregular	Irregular	35	35.7			

**REMARKS:**

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

**BUTTERMILK CHANNEL**

- **Reach A:** Sporadic shoaling exists throughout this reach. The controlling depth of -38.8 feet MLLW exists in the Left Inside Quarter approximately 2,680 feet landward of the beginning of the reach.

**BUTTERMILK CHANNEL:**

- **Reach B:** Shoaling exists in the Left Inside and Right Outside Quarters, within approximately the last 1,040 feet of this reach. The controlling depth of -34.9 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:** Shoaling exists in the vicinity of the southernmost corner of this widening, within approximately the last 650 feet of this reach. The controlling depth of -29.3 feet MLLW exists in the vicinity of that southernmost corner, approximately 375 feet seaward of the end of this reach.
- **Reach D:** Sporadic shoaling exists throughout this reach. The controlling depth of -33.0 feet MLLW exists in the Left Outside Quarter along the channel's toe, approximately 610 feet landward of GREEN #1 W/ LIGHT & GONG EBB.
- **Reach E:** Sporadic shoaling exists in the Left Inside and Left Outside Quarters of this reach. The controlling depth of -32.2 feet MLLW exists in the Left Outside Quarter near the channel's toe, approximately 2,760 feet landward of the beginning of the reach.
- **Reach F:** Shoaling exists in the southeastern corner of this reach, at the junction of the widening and the main channel. The shoaling exists within approximately the last 500 feet of this reach. The controlling depth of -33.4 feet MLLW exists along the authorized limit of the widening, approximately 220 feet from the main channel.
- **Reach G:** No shoaling exists in this reach.