

REPORT OF CHANNEL CONDITIONS 400 FEET WIDE OR GREATER <i>(ER 1130-2-306)</i>						PAGE 1 OF 2		
DATE January 3, 2013								
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 Red #32 w/ Light & Bell; to channel's first bend approximately 5,750 feet into the channel.	Map 108 Pg 1 of 2; 5, 6, & 12 December 2012	500	0.95	40	39.2	40.1	40.0	40.0
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 5,750 feet into the channel; to the channel's junction with East River.	Map 108 Pg 1 & 2 of 2; 5, 6, & 12 December 2012	500	1.30	40	40.9	40.6	41.0	36.3
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From approximately Red #32 w/ Light & Bell to approximately Green #11 w/ Light & Gong.	Map 108 Pg 1 of 2; 5, 6, & 12 December 2012	Irregular	Irregular	35	34.4			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at approximately Red #32 w/ Light & Bell; to channel's first bend approximately 5,070 feet into the channel.	Map 108 Pg 1 of 2; 5, 6, & 12 December 2012	500	0.83	35	34.5	34.6	35.1	35.5
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 5,070 feet into the channel; to the channel's junction with East River.	Map 108 Pg 1 & 2 of 2; 5, 6, & 12 December 2012	500	1.20	35	32.6	35.8	38.3	37.3
Reach F: Widening at junction with Anchorage Channel.	Map 108 Pg 1 of 2; 5, 6, & 12 December 2012	Irregular	Irregular	35	34.0			
Reach G: Widening at junction with East River.	Map 108 Pg 2 of 2; 5, 6, & 12 December 2012	Irregular	Irregular	35	36.6			
REMARKS: <ul style="list-style-type: none"> • All depths are in Mean Lower Low Water. • Channel length is in nautical miles. ➤ Reach B: No survey coverage exists at the landward most corner of the Right Outside Quarter for an approximate maximum length of 50 feet. ➤ Reach C: No survey coverage exists in the landward most portion (southeast corner) of the reach at the junction with Red Hook Channel. There is a lapse in survey data for a maximum length of approximately 235 feet and a maximum width of approximately 500 feet. ➤ Reach E: No survey coverage exists for a maximum length of approximately 420 feet and a maximum width of approximately 60 feet at the end of the Left Inside Quarter of this reach. <div style="text-align: right; margin-top: 10px;"> (continued on page 2 of 2) </div>								
ENG FORM 4020-R, Nov 90		EDITION OF JUL 59 IS OBSOLETE			(Proponent: CECW-OM)			

BUTTERMILK CHANNEL:

- **Reach A:** Shoaling exists in the Left Outside Quarter beginning approximately 185 feet seaward of GREEN #1 W/ LIGHT & GONG and continues landward for approximately 875 feet. The shoal reaches a maximum width as wide as the quarter with approximately 5 feet extending into the Left Inside Quarter.
- **Reach B:** Shoaling exists in the Right Outside Quarter beginning approximately 3,410 feet landward of GREEN CAN #7 and continues approximately 120 feet landward and having a maximum width of approximately 100 feet. Another shoal exists at the end of the Right Outside Quarter beginning approximately 4,190 feet landward of GREEN CAN #7 and continues landward for approximately 135 feet, having a maximum width of approximately 40 feet.
- **Reach C:** Shoaling exists in the southeast corner of the widening beginning approximately 390 feet northwest of GREEN #11 W/ LIGHT & GONG and continues northwest for approximately 115 feet, having a maximum width of approximately 75 feet.
- **Reach D:** Shoaling exists across the Left Outside Quarter and the Left Inside Quarter beginning approximately 360 feet landward of GREEN #1 W/ LIGHT & GONG and continues landward for approximately 480 feet having an approximate maximum width of 140 feet.
- **Reach E:** Shoaling exists in the Left Outside Quarter of this reach beginning approximately 230 feet seaward of GREEN CAN #5 and continues landward for approximately 430 feet having a maximum width of approximately 70 feet.
- **Reach F:** Shoaling exists in the eastern most boundary of this reach beginning approximately 90 feet north of GREEN #1 W/ LIGHT & GONG and continues northward for approximately 455 feet along the same boundary. The shoal has a maximum width of approximately 30 feet.
- **Reach G:** No shoaling exists in this reach.