

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER
(ER 1130-2-306)**

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DATE September 28, 2010

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 Red Lighted #28; to channel's first bend approximately 5,750 feet into the channel.	Map 101 Pg 1 of 2; 2, 6 – 8, 12 July 2010	500	0.70	40	38.4	39.0	38.8	38.8
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 101 Pg 1 & 2 of 2; 2, 6 – 8, 12 July 2010	500	1.30	40	39.3	40.0	40.5	35.8
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From Red Lighted #28 to Green Lighted & Bell #11.	Map 101 Pg 1 of 2; 2, 6 – 8, 12 July 2010	Irregular	Irregular	35	28.0			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at Red Lighted #28; to channel's first bend approximately 5,070 feet into the channel.	Map 101 Pg 1 of 2; 2, 6 – 8, 12 July 2010	500	0.70	35	30.7	32.0	32.7	33.6
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 101 Pg 1 & 2 of 2; 2, 6 – 8, 12 July 2010	500	1.30	35	32.0	33.8	37.0	36.3
Reach F: Widening at junction with Anchorage Channel.	Map 101 Pg 1 of 2; 2, 6 – 8, 12 July 2010	Irregular	Irregular	35	31.4			
Reach G: Widening at junction with East River.	Map 101 Pg 2 of 2; 2, 6 – 8, 12 July 2010	Irregular	Irregular	35	36.1			

REMARKS:

- All depths in Mean Low Water.
- Channel length is in nautical miles.

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BUTTERMILK CHANNEL:

- **Reach A:** Shoaling exists across all four quarters of this reach commencing approximately 2,250 feet from the beginning of this reach at Red Lighted #28 and extending approximately 2,000 feet further into this reach.
- **Reach B:** Minor shoaling exists in a small area along the left side boundary of the Left Outside Quarter of this reach beginning approximately 1,175 feet from the beginning of the reach and extending approximately 310 feet further into the reach.
In an isolated area, shoaling exists across the entire width of the Right Outside Quarter of this reach located approximately 1,050 feet from the end of the reach in front of PIER 5. It covers a small area of approximately 7,750 square feet.
Similarly, in an isolated area at the end of this reach, shoaling also exists across half the width of the Right Outside Quarter of this reach located approximately 270 feet from the end of the reach in front of PIER 4. It covers a small area of approximately 5,875 square feet.
- **Reach C:** Shoaling exists having the approximate dimensions of 390 feet by 210 feet along the southern most boundary of this reach beginning 240 feet westward of Green Lighted & Bell #11. There is minor sporadic shoaling approximately 2,650 feet landward of Red Lighted #28 covering an area 200 feet long and 300 feet wide.
- **Reach D:** Shoaling exists across the entire width of the Left Outside, Left Inside, and Right Inside Quarters of this reach, commencing approximately 400 feet seaward of Green Lighted & Gong #1, and extending approximately 1,740 feet landward. This shoal also extends into the Right Outside Quarter having an approximate length and width of 765 feet by 40 feet respectively.
- **Reach E:** Shoaling exists in the Left Outside Quarter of this reach starting approximately 200 feet seaward of Green Can #5 and ending approximately 200 feet landward of the same having an approximate maximum width of 80 feet.
Sporadic shoaling exists in the Left Inside Quarter beginning approximately 2,100 feet seaward of Green Can #5 and continues 440 feet landward
- **Reach F:** Shoaling exists in the eastern most corner of the junction of this reach with Reach D. It has approximate dimensions of 410 feet by 500 feet.
- **Reach G:** No shoaling exists in this reach.