

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

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DATE 15 March 2021

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:
Bay Ridge and Red Hook Channels, 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)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Reach A: Bay Ridge Channel - From approximately RED #2 W/LIGHT EBB to the first bend in the channel, a point located approximately 400 feet seaward of GREEN #5 W/ LIGHT & BELL FLOOD.	Request No. 5021/D; Pgs 1 - 2 of 4; 19-21, 23, 25-26, 28 Jan 2021 and 3, 22 Feb 2021	1,200	1.02	40	40.6	41.3	40.8	36.5
Reach B: Bay Ridge Channel - From the first bend in the channel, a point located approximately 400 feet seaward of GREEN #5 W/ LIGHT & BELL FLOOD, to approximately GREEN #9 LIGHTED W/BELL EBB.	Request No. 5021/D; Pgs 1 - 3 of 4; 19-21, 23, 25-26, 28 Jan 2021 and 3, 22 Feb 2021	1,800 – 1,950	1.50	40	18.4	24.9	30.1	24.4
Reach C: Bay Ridge Channel – Gowanus Creek, From approximately GREEN #9 LIGHTED W/BELL EBB to a point approximately 3,080 feet landward of the same, in Gowanus Creek.	Request No. 5021/D; Pg 3 of 4; 19-21, 23, 25-26, 28 Jan 2021 and 3, 22 Feb 2021	500 - 1,750	0.52	40	21.2	22.0	22.1	19.8
Reach D: Red Hook Channel - From approximately GREEN #9 LIGHTED W/BELL EBB, to a point approximately 2,320 feet landward of GREEN #11 W/ LIGHT & BELL EBB.	Request No. 5021/D; Pgs 3 - 4 of 4; 19-21, 23, 25-26, 28 Jan 2021 and 3, 22 Feb 2021	1,200 – 2,100	0.89	40	20.6	30.3	38.7	29.3

REMARKS:

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

BAY RIDGE AND RED HOOK CHANNELS:

- **Reach A:** Shoaling exists along the channel's toe in the Right Outside Quarter of this reach, extending into Reach B. The controlling depth of -36.5 feet MLLW exists in the Right Outside Quarter at approximately 1,310 feet and 1,360 feet landward of GREEN #3 W/LIGHT&BELL FLOOD.
- **Reach B:** Shoaling from Reach A extends into the Right Outside Quarter of this reach, and widens across the entire width of the channel. The controlling depth of -18.4 feet MLLW exists in the Left Outside Quarter at approximately 1,310 feet, 1,410 feet, and 1,460 feet seaward of GREEN #9 LIGHTED W/BELL EBB.
- **Reach C:** Shoaling exists throughout the majority of this reach. The controlling depth of -19.8 feet MLLW exists in the Right Outside Quarter at approximately 365 feet seaward of the end of this reach.
- **Reach D:** Edge shoaling exists in the Right Outside Quarter. Shoaling also exists mostly in the Left Outside Quarter and the Left Inside Quarter of this reach, with shoaling also present in the Right Inside Quarter. Sporadic shoaling exists throughout this reach. The controlling depth of -20.6 feet MLLW exists near the channel's toe in the Left Outside Quarter at approximately 225 feet landward of GREEN #9 LIGHTED W/BELL EBB.