

**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:**  
Bay Ridge and Red Hook Channels, 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)				
<b>Reach A:</b> Bay Ridge Channel - From a point located approximately 3,000 feet seaward of GREEN GONG W/ LIGHT #3 EBB to the first bend in the channel, a point located approximately 1,050 feet seaward of GREEN GONG W/ LIGHT #5 EBB	Map 145 Pg 1 & 2 of 4; 10, 11, 16, 18, 19, 22, 24 January 2018	1,200	1.02	40	40.6	41.4	41.0	36.6
<b>Reach B:</b> Bay Ridge Channel - From the first bend in the channel, a point located approximately 1,050 feet seaward of GREEN GONG W/ LIGHT #5 EBB, to a point approximately at GREEN BELL W/LIGHT #9 FLOOD.	Map 145 Pg 2 & 3 of 4; 10, 11, 16, 18, 19, 22, 24 January 2018	1,800 – 1,950	1.5	40	19.0	25.9	31.2	25.7
<b>Reach C:</b> Bay Ridge Channel – Gowanus Creek, From a point approximately at GREEN BELL W/LIGHT #9 EBB to a point approximately 3,130 feet landward of GREEN BELL W/LIGHT #9 EBB, in Gowanus Creek.	Map 145 Pg. 3 & 4 of 4; 10, 11, 16, 18, 19, 22, 24 January 2018	500 - 1,750	0.52	40	21.8	23.3	23.4	19.6
<b>Reach D:</b> Red Hook Channel - From a point located approximately 50 feet landward (north) of GREEN BELL W/LIGHT #9 FLOOD, to a point approximately 2,230 feet landward of GREEN GONG W/LIGHT #11 FLOOD.	Map 145 Pg 3 & 4 of 4; 10, 11, 16, 18, 19, 22, 24 January 2018	1,200 – 2,100	0.89	40	21.3	31.1	38.3	29.0

**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 toe of the channel, in the Right Outside Quarter, commencing in the vicinity of GREEN GONG W/ LIGHT #3 EBB and continuing until the end of the reach, with a maximum width of approximately 85 feet. A controlling depth of -36.6 feet MLLW exists in multiple locations along the toe of the channel in the Right Outside Quarter approximately 1,180 feet to 950 feet seaward of the end of the reach.
- **Reach B:** Shoaling commences at the beginning of the reach, along the channel's toe in the Right Outside Quarter and extends across the width of the channel in the vicinity of GREEN GONG W/ LIGHT #5 EBB, where it continues until the end of the reach. Areas of project depth are available in the Right Outside Quarter of the channel, from the vicinity of GREEN CAN #7 EBB to approximately 1,000 feet seaward of the end of the reach. A controlling depth of -19.0 feet MLLW exists in the Left Outside Quarter of the channel approximately 1,130 feet seaward of GREEN BELL W/ LIGHT #9 FLOOD.
- **Reach C:** Shoaling exists throughout the entire reach, except a portion in the Left Outside Quarter, from approximately 595 feet landward of GREEN BELL W/ LIGHT #9 FLOOD and continues landward for approximately 850 feet, with a maximum width of approximately 330 feet. A controlling depth of -19.6 feet MLLW exists in the Right Outside Quarter of the reach, approximately 360 feet seaward of the end of the reach.

**BAY RIDGE AND RED HOOK CHANNELS:**

- **Reach D:** Shoaling exists along the entire toe of the channel in the Right Outside Quarter, with a maximum width of approximately 185 feet. Shoaling exists in the Left Outside and Left Inside Quarter of the channel, from the beginning of the reach until approximately 1,015 feet landward of GREEN GONG W/ LIGHT #11 FLOOD. Spot shoaling exists throughout the entire channel from the vicinity of GREEN GONG W/ LIGHT #11 FLOOD until the end of the channel. A controlling depth of -21.3 feet MLLW exists in the Left Outside Quarter of the reach, approximately 650 feet seaward of GREEN BELL W/ LIGHT #9 FLOOD.