

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

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DATE June 17, 2011

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)				
Reach A: Bay Ridge Channel (Narrows to Bay Ridge Avenue) Beginning from junction of Anchorage Channel and Bay Ridge Channel to a point located approximately 4,000 feet landward of GREEN #3 FLOOD.	Map 136 Pg 1 & 2 of 4; 7 Dec 2010; 11 Feb 2011	1,200	1.01	40	40.7	41.5	41.8	36.3
Reach B: Bay Ridge Channel (Bay Ridge Avenue to 3 mile point) From point located approximately 4,000 feet landward of GREEN #3 FLOOD to a point located approximately at GREEN #9 FLOOD.	Map 136 Pg 1 thru 3 of 4; 7 Dec 2010; 11 Feb 2011	1,750 – 1,970	1.54	40	21.8	28.4	33.3	27.2
Reach C: Bay Ridge Channel (3 mile point to Gowanus Creek) From a point located approximately at Green #9; to 3200 feet landward in the direction of Gowanus Creek.	Map 136 Pg 3 of 4; 7 Dec 2010; 11 Feb 2011	1,970 - 495	0.50	40	27.6	27.2	27.2	25.4
Reach D: Red Hook Channel (3 mile point to 4 mile point) From a point located approximately at GREEN #9 FLOOD to a point approximately 2200 feet landward of Green #11.	Map 136 Pg 3 & 4 of 4; 7 Dec 2010; 11 Feb 2011	1,200 – 2,090	0.90	40	23	34.9	38.9	28.6

REMARKS:

- All depths in MLW
- Channel length is in nautical miles.
 - **Reach A:** Shoaling exists in Right Outside Quarter for the last 2130ft landward, with an approximate maximum width of 70 ft. Project depth is attainable at all other areas of the reach.
 - **Reach B:** Project depth is available in the Left Outside, Left Inside, Right Inside Quarters, and Right Outside Quarter for approximately the first 1018ft, 1645ft, 2344ft, and 2050ft, respectively. Shoaling exists throughout the remainder of the reach.
 - **Reach C:** Shoaling exists across all four quarters of the channel for the majority of this reach. At the Left Inside Quarter of the reach, project depth is met at about 150ft into the reach and has a length of 630ft and max width of 211ft. The Left Outside Quarter has shoaling at the beginning of the reach for about 150ft, project depth is then met almost throughout the width of the channel for approximately 1144 ft.
 - **Reach D:** Project depth is available in much of the Left Inside, Right Inside, and Right Outside Quarters of this reach. Shoaling is present in the Left Outside and Left Inside Quarters for about 2542 ft and project depth is available thereafter until the end of the channel, with the exception of sporadic shoaling. Shoaling is also present along the Right Outside toe line.