

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

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**DATE** 08 November 2017

**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:** Newark Bay, Hackensack & Passaic Rivers, NJ; Newark Bay – Main Channel

**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)	
<b>NEWARK BAY MAIN CHANNEL of Newark Bay, Hackensack &amp; Passaic Rivers Navigation Channels Project</b>								
<b>Reach A – Main Channel South:</b> Begins at a point approximately 45 feet landward of RED #2 W/ LIGHT FLOOD, and ends at a point approximately 70 feet landward of RED #10 W/ LIGHT FLOOD.	Map 988, Pgs 1 - 3 of 8; 27 Jul, 14-16, 28, 31 Aug, 5 Sep 2017	1,000 – 2,360	1.28	50	48.8	49.6	50.8	47.3
<b>Reach B – Main Channel Middle (South):</b> Begins at a point approximately 70 feet landward of RED #10 W/ LIGHT FLOOD, and ends at a point approximately 350 feet seaward of RED NUN #16 FLOOD.	Map 988, Pgs 3 - 4 of 8; 27 Jul, 14-16, 28, 31 Aug, 5 Sep 2017	1,655 - 800	0.87	50	43.2	44.2	44.2	40.9
<b>Reach B1 - Main Channel Middle (North):</b> Begins at a point approximately 350 feet seaward of RED NUN #16 FLOOD, and ends at the approximate location of GREEN CAN #19A FLOOD.	Map 988, Pg 5 of 8; 27 Jul, 14-16, 28, 31 Aug, 5 Sep 2017	565-800	0.54	40	37.5	38.2	37.4	25.4
<b>Reach C - Main Channel North:</b> From the approximate location of GREEN CAN #19A FLOOD, to a point approximately 125 feet seaward of RED NUN #2 FLOOD.	Map 988, Pgs 5 - 8 of 8; 27 Jul, 14-16, 28, 31 Aug, 5 Sep 2017	500-1,030	1.37	35	16.5	21.6	17.9	6.7

**REMARKS:**

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

**NEWARK BAY – MAIN CHANNEL**

- **Reach A:** Sporadic shoaling exists in the Left Outside and Left Inside Quarters from approximately 550 feet seaward of GREEN CAN #1 W/LIGHT FLOOD, to a point located approximately 600 feet landward of the same. Sporadic shoaling exists in the Left Outside Quarter along the channel's toe, from a point approximately 1,140 feet landward of GREEN CAN #1 W/LIGHT FLOOD to a point approximately 2,640 feet landward of the same, having a maximum width of approximately 115 feet. Shoaling exists in the Right Outside Quarter from approximately 110 feet landward of RED #2 W/LIGHT FLOOD, to a point located approximately 1,000 feet seaward of RED BUOY #6 W/LIGHT FLOOD, having a maximum width of approximately 250 feet. Shoaling also exists along the channel's toe in the Right Outside Quarter for approximately the last 865 feet of this reach. It surrounds RED #10 W/LIGHT FLOOD and has a maximum width of approximately 40 feet.

- **Reach B:** In the Left Outside Quarter sporadic shoaling exists along the channel's toe from the approximate beginning of the reach, to a point located approximately 1,080 feet seaward of RED NUN #2 FLOOD, having a maximum width of approximately 145 feet. Shoaling exists across the entire width of the Left Outside Quarter for the majority of approximately the last 1,380 feet of this reach. This shoal extends across the entire width of the channel (all 4 quarters) for the majority of approximately the last 590 feet of the reach.  
In the Left Inside Quarter shoaling exists from approximately 300 feet seaward of RED NUN #2 FLOOD, to the end of the reach. The shoaling becomes as wide as the quarter's entire width.  
In the Right Inside Quarter shoaling exists from approximately 230 feet seaward of GREEN CAN #15A FLOOD, to the end of the reach. The shoaling becomes as wide as the quarter's entire width.  
Shoaling exists over much of the width of the Right Outside Quarter from the beginning of the reach at the approximate location of RED #10 W/LIGHT FLOOD, to the end of the reach. The shoal extends across the entire width of the Right Outside Quarter for approximately the last 785 feet of the reach.
- **Reach B1:** Shoaling exists across the entire width of the Left Outside Quarter from approximately 230 feet seaward of RED NUN #16 FLOOD, to a point located approximately 765 feet landward of the same. Shoaling also exists in approximately the last 200 feet of the Left Outside Quarter, having a maximum approximate width of 125 feet.  
In the Left Inside Quarter shoaling exists across much of the quarter's width, beginning approximately 270 feet seaward of RED NUN #16 FLOOD, to a point located approximately 1,035 feet landward of the same.  
In the Right Inside Quarter shoaling exists across much of the quarter's width, beginning approximately 275 feet seaward of RED NUN #16 FLOOD, to a point located approximately 2,035 feet landward of the same. Shoaling also exists in approximately the last 190 feet of the reach in the Right Inside Quarter.  
In the Right Outside Quarter shoaling exists across much of the quarter's width for the entire reach. The controlling depth of -25.4 feet MLLW can be found along the channel's toe within approximately the first 225 feet of this reach.
- **Reach C:** Shoaling exists along the channel's toe in the Left Outside Quarter from the approximate beginning of the reach, to a point located approximately 1,670 feet landward of GREEN #21 W/LIGHT FLOOD, having a maximum approximate width of 60 feet. Shoaling also exists across much of the Left Outside Quarter's width beginning approximately 910 feet seaward of the channel's first bend, to a point located approximately 125 feet seaward of the same, having a maximum approximate width of 110 feet. The controlling depth of -16.5 feet MLLW exists within these parameters. Thence shoaling exists throughout much or all of the width of the Left Outside Quarter for approximately the last 1,600 feet of this reach.  
In the Left Inside Quarter shoaling exists in approximately the last 780 feet of this reach, extending as wide as the quarter's entire width. The controlling depth of -21.6 feet MLLW can be found at the very end of the reach.  
Shoaling exists in the Right Outside Quarter from approximately 1,480 feet seaward of RED NUN #24 FLOOD, to a point located approximately 975 feet landward of the same. This shoaling becomes as wide as the quarter's entire width, and the controlling depth of -17.9 feet MLLW is located within these parameters along the quarter's eastern limit at its bend.  
Shoaling exists in the Right Outside Quarter for the majority of this entire reach. The shoaling becomes as wide as the quarter's entire width. The controlling depth of -6.7 feet MLLW is located along the channel's toe approximately 50 feet seaward of the channel's bend.