

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

DATE: 26 April 2016

**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: Middle and North Reaches

**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>MAIN CHANNEL of Newark Bay, Hackensack &amp; Passaic Rivers Navigation Channels Project</b>								
<b>Reach B1 - Main Channel Middle Reach (North):</b> From a point approximately 550 feet seaward of RED NUN #16 FLOOD, to a point approximately 60 feet landward of GREEN CAN #19A FLOOD.	Map 968A, Pgs 1 – 2 of 5; 8,11,16-19,22-25,29 FEB & 2,4 MAR 2016	565-800	0.54	40	37.0	38.5	32.8	26.3
<b>Reach C - Main Channel North Reach:</b> From a point approximately 60 feet landward of GREEN CAN #19A FLOOD, to a point approximately 55 feet seaward of RED NUN #2 FLOOD.	Map 968A, Pgs 2 – 5 of 5; 8,11,16-19,22-25,29 FEB & 2, 4 MAR 2016	500-1,030	1.37	35	20.3	21.7	18.6	6.5
<b>Partial Reach D – Port Newark Branch Reach:</b> Survey coverage exists in only a portion of this partial reach, from the approximate location of GREEN #17 W/LIGHT FLOOD, to a point approximately 250 feet landward of GREEN #1 W/LIGHT FLOOD.	Map 968A, Pg 2 of 5; 8,11,16-19,22-25,29 FEB & 2, 4 MAR 2016	400-1,785	0.38	40	24.2	34.0	33.6	23.9

**REMARKS:**

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

**NEWARK BAY:**

• **Reach B1:**

- Shoaling exists in the Right Outside Quarter (ROQ) of this reach beginning at a point approximately 225 feet seaward of RED NUN #16 FLOOD, and extends landward to a point approximately 860 feet landward of RED #18 W/LIGHT at the end of the reach. The shoal covers the entire width of the quarter for the majority of this reach.
- Shoaling exists in the Right Inside Quarter (RIQ) of this reach beginning at a point approximately 220 feet seaward of RED NUN #16 FLOOD, and extends landward to the approximate location of RED #18 W/LIGHT FLOOD. Within these parameters, the shoal covers much of the quarter's width and becomes as wide as the entire width of the quarter. Shoaling also exists in approximately the last 160 feet of the RIQ of this reach, having a maximum width of the entire width of the quarter.
- Shoaling exists in the Left Inside Quarter (LIQ) of this reach beginning at a point approximately 215 feet seaward of RED NUN #16 FLOOD, and extends landward to a point located approximately 150 feet seaward of GREEN #17 W/LIGHT FLOOD. The shoal covers much of the quarter's width within these parameters. Shoaling also exists in approximately the last 40 feet of the LIQ of this reach, having a maximum width of virtually the entire width of the quarter.
- Shoaling exists in the Left Outside Quarter (LOQ) of this reach beginning at a point approximately 220 feet seaward of RED NUN #16 FLOOD, and extends landward to a point located approximately 490 feet landward of GREEN #17 W/LIGHT FLOOD. Within these parameters, the shoal covers much of the quarter's width and becomes as wide as the entire width of the quarter. Shoaling also exists in approximately the last 205 feet of the LOQ of this reach, having a maximum width of the entire width of the quarter.

• **Reach C:**

- Shoaling exists sporadically throughout much of the ROQ of this entire reach. The shoaling becomes as wide as the quarter's entire width, however navigable paths where project depth becomes available exist as well.
- Shoaling exists throughout much of the RIQ of this reach beginning approximately 1,430 feet seaward of RED NUN #24 FLOOD to a point located approximately 1,040 feet landward of the same. The shoal becomes as wide as the quarter's entire width within these parameters.

- Some shoaling exists in the LIQ beginning at the approximate location of RED NUN #24 FLOOD, and extends landward to point located approximately 325 feet landward of the same. Within these parameters, the shoal becomes as wide as approximately 55 feet. Shoaling also exists in approximately the last 785 feet of the LIQ of this reach, having a maximum width of the entire width of the quarter.
  - Shoaling exists sporadically throughout the entire LOQ of this reach. Throughout approximately the last 785 feet of this reach, the shoal becomes as wide as the quarter's entire width.
- **Partial Reach D:**
    - Shoaling exists throughout much of all four quarters of the portion of this partial reach where survey coverage exists.