

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

DATE: 27 June 2012

**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 and Passaic Rivers – Port Elizabeth, Port Newark, and Port Newark Pierhead Channels, New Jersey

**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 D:</b> Port Newark Branch Reach: Survey coverage exists from approximately GREEN CAN #19A to a point approximately 790 feet landward of GREEN CAN #3.	Map 931; Pg 2 of 4; 4, 7, 10, 14, 15, 17, 22, 23, 29, 30 May & 4-5 June 2012	400- 1,810	0.39	40	24.1	34.1	34.7	23.6
<b>Reach E:</b> Port Newark Inshore Reach: Survey coverage exists from a point approximately 790 feet landward of GREEN CAN #3 to the END of Port.	Map 931; Pgs 2-4 of 4; 4, 7, 10, 14, 15, 17, 22, 23, 29, 30 May & 4-5 June 2012	400	1.06	40	28.1	30.9	30.7	29.8
<b>Reach G:</b> Port Elizabeth Branch Reach: Survey coverage exists from a point approximately 800 feet seaward of RED NUN #4 to a point approximately 1,570 feet landward of the same.	Map 931; Pg 1 of 4; 4, 7, 10, 14, 15, 17, 22, 23, 29, 30 May & 4-5 June 2012	500 - 800	1.27	45	51.0	51.9	49.6	37.5

**REMARKS:**

- All depths are in reference to Mean Low Water (MLW).
- Channel Length is in nautical miles.
- \* **Reach D:** No survey coverage exists for a maximum length of approximately the first 400 feet of the Left Outside, Left Inside, and Right Inside Quarters of this reach.
- \*\* **Reach E:** No survey coverage exists for a maximum length of approximately the last 80 feet of the Right Outside, Right Inside, and Left Inside Quarters of this reach.
- \*\*\* **Reach G:** No survey coverage exists for the majority of the authorized dimensions of this reach. There is also a lapse in survey coverage in a portion of the Right Outside and Right Inside Quarters of this reach from a point approximately 800 feet seaward of RED NUN #4 to a point approximately 310 feet seaward of the same.

**NEWARK BAY:**

- **Reach D:** Shoaling is present on either side of the channel beginning at the seaward end of the reach and proceeding landward along both sides of the channel. The unobstructed channel width is approximately centered about the Right and Left Inside Quarters, having an approximate width of 850 feet at the seaward end, but narrows down to a 10 feet width at approximately 525 feet landward of GREEN W/ LIGHT #1. Thence the width of the channel where project depth is available gradually widens to a channel width of approximately 500 feet once approximately in line with RED NUN #10.
- **Reach E:** Shoaling exists throughout much of the channel from the beginning of the reach to the channel's first bend. Within those same parameters, a path where project depth is available exists down the approximate center of the channel having a minimum width of approximately 65 feet. Project depth is available for the majority of the channel's width from the channel's first bend to a point approximately 775 feet landward of the channel's first bend. Shoaling exists throughout much of the channel, and across the channel's entire width for much of the reach, between a point approximately 775 feet landward of the channel's first bend and the END of the Port. However, within those same parameters, project depth is available for varying widths along the approximate center of the channel, and for a portion of the reach becomes available across the channel's entire width.
- **Reach G:** The shoaling in the Right Outside Quarter of this reach is approximately centered about RED NUN #4 and has the approximate dimensions of 320 feet long by 25 feet wide.

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100 TO 400 FEET WIDE  
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Newark Bay, Hackensack and Passaic Rivers – Port Newark and Port Newark Pierhead Channels, New Jersey

**MINIMUM DEPTHS IN  
CHANNEL ENTERING FROM  
SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
<b>Reach F:</b> Pt. Newark Pierhead Reach: Survey coverage exists from approximately RED NUN #4 to approximately GREEN CAN #3.	Map 931; Pgs 1-2 of 4; 4, 7, 10, 14, 15, 17, 22, 23, 29, 30 May & 4-5 June 2012	320-810	0.65	40	27.7	31.2	27.0

**REMARKS:**

- All depths in MLW.
- Channel length is in nautical miles.
- \* **Reach F:** A lapse in survey coverage exists in the Left Outside Quarter along the western channel boundary across from RED NUN #8 having the approximate dimensions of 680 feet long by 70 feet wide.

**NEWARK BAY**

- **Reach F:** Channel wide shoaling occurs along the entire length of Reach F with the following exceptions: Project depth is available at the beginning of the reach in the Middle Half and into the Left Outside Quarter with maximum width of approximately 170 feet and narrows landward. Project depth is also available in the vicinity of RED NUN #8 in the Left Outside Quarter and Middle Half of the channel having a maximum width of approximately 150 feet and an approximate length of 1,100 feet. Project depth is also available at the landward channel widening in the Middle Half of the channel having a maximum width of approximately 160 feet and a maximum length of approximately 80 feet.