

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

DATE: 6 March 2014

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, New Jersey – Newark Bay Main Channel;
Port Newark Branch and Inshore Channels; Port Elizabeth Channel

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	PAGES & DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Reach B1, Main Channel Middle Reach: From approximately 230 feet seaward of RED NUN #16 to approximately 325 feet seaward of RED LIGHTED #20.	Map 939 pgs. 5 and 6 of 6; 4,7,8,9,16,21 October, 13-14 November 2013	520-800	0.53	40	37.4	38.1	33.3	26.3
Reach D, Port Newark Branch Reach: From approximately GREEN CAN #19A to a point approximately 790 feet landward of Green Can #3.	Map 939 pgs. 2 and 5 of 6; 4,7,8,9,16,21 October, 13-14 November 2013	400-1810	0.39	40	24.8	34.7	34.1	26.8
Reach E, Port Newark Inshore Reach: From a point approximately 790 feet landward of GREEN CAN #3 to the END of Port.	Map 939 pgs. 2 through 4 of 6; 4,7,8,9,16,21 October, 13-14 November 2013	400	1.06	40	33.2	35.1	34.2	34.4
Reach G, Port Elizabeth Branch Reach: Survey coverage exists from a point approximately 400 feet seaward of RED NUN #2 to the END of Port.	Map 940 pgs. 1 through 3 of 3; 9-12 December 2013	500-800	1.27	45	48.4	48.9	47.3	36.6

REMARKS:

- All depths are in reference to Mean Low Water (MLW).
- Channel Lengths are in nautical miles.

NEWARK BAY:

- **Reach B1**
 - **LOQ:** Shoals exist throughout the Left Outside Quarter (LOQ) from the approximate location of RED NUN #16 to approximately 950 feet landward of same. Thence they taper into the channel to a width of 25 feet and continue until 1300 feet landward of same. Shoals exist from approximately 175 feet seaward of GREEN LIGHTED #19A to at least 120 feet landward of same.
 - **LIQ:** The Left Inside Quarter (LIQ) has shoals with a maximum width of 200 feet from the approximate location of RED NUN #16 to approximately 1100 feet landward of same. Shoals exist from the approximate location of GREEN LIGHTED #19A to at least 120 feet landward of the same.
 - **RIQ:** Shoals fill the Right Inside Quarter (RIQ) from reach START to approximately 400 feet landward of RED NUN #16, after which they fill the right half of the quarter until 2200 feet landward of same. Shoals exist from 120 feet seaward of GREEN LIGHTED #19A to at least 120 feet landward of same.
 - **ROQ:** In the first 2000 feet landward of the approximate location of RED NUN #16, 100 foot wide shoals exist along both the toe and the inside edge of the Right Outside Quarter (ROQ). Shoals exist throughout the ROQ from there to approximately 120 feet landward of GREEN LIGHTED #19A.

NEWARK BAY, continued:

• **Reach D**

- **LOQ:** Shoals exist throughout the reach.
- **LIQ:** Shoals exist throughout the reach. A 75 foot wide shoal runs along the toe of the quarter from the approximate location of GREEN LIGHTED #19A to approximately 350 feet landward of same; the shoal then fills the quarter to the reach END.
- **RIQ:** Shoals span the quarter from approximately 120 feet landward of GREEN LIGHTED #19A to approximately 1200 feet landward of same.
- **ROQ:** Shoals up to 400 feet wide fill the quarter from the approximate location of GREEN LIGHTED #19A to approximately 430 feet landward of same; 200 foot wide shoals fill the quarter from approximately 430 feet landward of the same to approximately 1650 feet landward of the same.

• **Reach E**

- **LOQ & LIQ:** Shoals with a maximum width of 165 feet exist along the toe of the first 2120 feet of the reach. Shoals exist throughout the channel from 3000 feet into the reach to the END of the channel.
- **ROQ & RIQ:** Shoals with a maximum width of 175 feet exist along the toe of the first 2360 feet of the reach. Shoals with a maximum width of 200 feet exist from 3680 feet to 4820 feet into the channel. There is a shoal throughout the ROQ and RIQ from 5140 feet into the channel to END of channel. No survey data is available for the RIQ from 5140 feet to 5860 feet into the channel.

- **Reach G:** Shoals less than 4 feet wide exist along the toe of the ROQ from the approximate location of Red Nun #2 to approximately 230 feet landward of Red Nun #4.

REPORT OF CHANNEL CONDITIONS
100-400 FEET WIDE
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 26 Federal Plaza, ATTN: CENAN-OP-ST
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RIVER/HARBOR NAME AND STATE:
 Newark Bay, Hackensack and Passaic Rivers, New Jersey – Port Newark Pierhead Channel
 and Port Elizabeth South Channel

**MINIMUM DEPTHS IN
 CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	PAGES & DATES OF SURVEY	AUTHORIZED PROJECT			LEFT QUARTER (feet)	MIDDLE HALF (feet)	RIGHT QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)			
Reach F, Port Newark Pierhead Reach: From the approximate location of RED NUN #4 to the approximate location of GREEN CAN #3.	Map 939 pgs. 1 and 2 of 6; 4,7,8,9,16,21 October, 13-14 November 2013	320-810	0.65	40	30.6	30.2	27.5
Reach I, Port Elizabeth South Reach: From the approximate location of GREEN CAN #1 at junction between Port Elizabeth South and the Main Channel to END of Port at a point approximately 0.5 miles westward.	Map 941 pg. 1 of 1; 18,19,21,26 November 2013	140-290	0.43	45	45.0	45.0	43.2

REMARKS:

- All depths are in reference to Mean Low Water (MLW).
- Channel Length is in nautical miles.

NEWARK BAY

- **Reach F:**
 - **LQ:** Shoals exist in the Left Quarter (LQ) from the start of the channel to the approximate location of RED NUN #6. Intermittent shoaling exists from the approximate location of RED NUN #6 to approximately 200 feet landward of RED NUN #8. Shoals span the channel from approximately 470 feet landward of RED NUN #8 to approximately 520 feet landward of GREEN CAN #3.
 - **MH:** Shoals span the Middle Half (MH) of the channel from the approximate location of RED NUN #4 to the approximate location of GREEN CAN #3.
 - **RQ:** Shoals fill the Right Quarter (RQ) of the channel from the approximate location of RED NUN #6 to the approximate location of GREEN CAN #3.

- **Reach I:** Minimal shoaling exists in the RQ between 1540 feet and 1700 feet landward of the channel entrance. The maximum shoal width is approximately 35 feet. Some shoals exist in the final 30 feet of the RQ.