

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

PAGE 1 **OF** 2

DATE 19 October 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: New York and New Jersey Channels,
Outerbridge Reach to Gulfport Reach

**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)	LENGT H (n miles)	DEPTH (feet)				
Outerbridge Reach (Reach M) (Partial): Begins approximately 650 feet seaward of Outerbridge Crossing and extends to approximately GREEN LIGHTED #5 EBB	Map 1347, Pg 2 – 4 of 18; 19 April, 3 May & 11-14, 18-20 June 2012	600	0.89	35	32.5	35.1	35.9	34.2
Port Secony Reach (Reach L): Begins approximately at GREEN LIGHTED #5 EBB and extends to a point approximately 100 feet landward of GREEN LIGHTED #11 SLACK	Map 1347, Pg 4 – 5 of 18; 19 April, 3 May & 11-14, 18-20 June 2012	600 - 800	0.87	35	31.4	33.6	34.2	31.1
Port Reading Reach (Reach K): Begins at a point approximately 100 feet landward of GREEN LIGHTED #11 SLACK and extends to approximately GREEN LIGHTED #21 FLOOD	Map 1347, Pg 5 – 9 of 18; 19 April, 3 May & 11-14, 18-20 June 2012	500 – 850	1.83	35	27.1	34.3	34.8	25.9
Fresh Kills Reach (Reach J): Begins at approximately GREEN LIGHTED #21 FLOOD and extends to a point approximately 110 feet seaward of RED LIGHTED #30 EBB	Map 1347, Pg 9 – 12 of 18; 19 April, 3 May & 11-14, 18-20 June 2012	500	1.66	35	32.0	34.8	36.1	33.2
Tremley Point Reach (Reach I): Begins approximately 110 feet seaward of RED LIGHTED #30 EBB and extends to a point approximately 40 feet landward of RED LIGHTED #36 FLOOD	Map 1347, Pg 12 – 14 of 18; 19 April, 3 May & 11-14, 18-20 June 2012	500	0.98	35	30.0	36.4	35.6	34.2
Pralls Island Reach (Reach H): Begins at a point approximately 40 feet landward of RED LIGHTED #36 FLOOD and extends to a point approximately 1580 feet seaward of GREEN LIGHTED #43 EBB	Map 1347, Pg 14 -16 of 18; 19 April, 3 May & 11-14, 18-20 June 2012	500	1.13	35	30.8	34.2	36.2	28.7
Gulfport Reach (Reach G)(Partial): Begins at a point approximately 1580 feet seaward of RED LIGHTED #36 FLOOD and extends to a point approximately 210 feet seaward of the Staten Island R.R./Conrail Bridge	Map 1347, Pg 16 -18 of 18; 19 April, 3 May & 11-14, 18-20 June 2012	600 – 500	1.24	35	28.2	36.5	35.9	29.4

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REMARKS:

- All depths in Mean Low Water (MLW).
- Channel length is in nautical miles

Channel Shoaling:

• **Outerbridge Reach (Reach M) (Partial):**

- A shoal approximately 1,060 feet in length is present in the Left Outside Quarter beginning approximately 175 feet landward of the Outerbridge Crossing. Minor shoaling exists along the left and right channel edges for the remainder of the reach.

• **Port Secony Reach (Reach L):**

- There exists a shoal approximately 2,550 feet in length in the Left Outside Quarter, beginning approximately 400 feet landward of RED NUN #8 and continuing to the end of the reach.
- Sporadic shoaling starts at a point approximately 150 feet seaward of RED #8 EBB in the Right Outside Quarter for approximately 870 feet with maximum width of approximately 150 feet. A second shoal, approximately 1,700 ft in length, starts at a point approximately 400 feet landward of RED LIGHTED #10 FLOOD and continues landward along the Right Outside Quarter for a distance of approximately 400 feet beyond the end of this reach, in the approximate vicinity of RED LIGHT #12 SLACK.

• **Port Reading Reach (Reach K):**

- Minor shoaling exists in the Left Outside Quarter.
- A shoal approximately 100 feet in length and 60 feet in width exists approximately 250 feet landward of GREEN LIGHTED #11.
- An extension of a shoal, approximately 200 ft wide by 400 feet long, from the previous reach exists in the Right Outside Quarter. Sporadic shoaling exists throughout the Right Outside Quarter together with minor shoaling along the channel edge.

• **Fresh Kills Reach (Reach J):**

- There is shoaling in the Left Outside Quarter for approximately the first 2,590 feet of this reach. Sporadic shoaling exists in the Left Outside Quarter for the remainder of the reach.
- Minor spot shoaling exists in the Left Inside Quarter at the beginning of the reach.
- There is a shoal along the channel edge beginning approximately 1300 feet landward of RED LIGHT #24 FLOOD and continuing to the end of the reach.

• **Tremley Point Reach (Reach I):**

- Shoaling exists in the Left Outside Quarter at the first channel bend, approximately 450 feet landward of RED LIGHTED #30, along the left channel edge with maximum width of approximately 50 feet. Another shoal, approximately 900 feet in length, starts at a point landward of RED LIGHTED #32 along the left channel edge and continues landward, with a maximum width of 50 feet.
- Spot shoals also exist in the Left Outside Quarter and the Left Inside Quarter at the end of the reach.
- Minor shoaling exists along the channel edge of the Right Outside Quarter.

• **Pralls Island Reach (Reach H):**

- Shoaling exists at the first channel bend of the reach, approximately 500 feet landward of RED LIGHTED #38, in the Left Outside Quarter with a maximum width of approximately 100 feet. Minor shoaling exists along most of the remaining length of the Left Outside Quarter.
- There is minor shoaling in the Left Inside Quarter.
- In the Right Outside Quarter, shoaling exists along the length of the channel edge and has a maximum width of approximately 60 feet.

• **Gulfport Reach (Reach G) (Partial):**

- Minor shoaling exists at the beginning of the Left Outside Quarter to 300 feet landward of GREEN LIGHTED #43.
- Minor shoaling with a maximum width of approximately 60 feet exists in the Right Outside Quarter along the channel edge for most of the length of the reach.