

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

PAGE 1 **OF** 2

DATE 12 July 2011

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) | LENGTH (n miles) | DEPTH (feet) | | | | |
| Outerbridge Reach (Reach M) (Partial): Begins 300 feet downstream of Outerbridge Crossing and extends to GREEN LIGHTED #5 EBB | Map 1334, Pg 2 – 4 of 18; April-May 2011 | 600 | 0.85 | 35 | 32.5 | 35.1 | 36.0 | 34.1 |
| Port Secony Reach (Reach L): Begins at GREEN LIGHTED #5 EBB and extends to a point approximately 30 feet landward of GREEN LIGHTED #11 SLACK | Map 1334, Pg 4 – 5 of 18; April-May 2011 | 600 - 800 | 0.87 | 35 | 33.1 | 34.0 | 34.5 | 32.0 |
| Port Reading Reach (Reach K): Begins at a point approximately 30 feet landward of GREEN LIGHTED #11 SLACK and extends to GREEN LIGHTED #21 FLOOD | Map 1334, Pg 5 – 9 of 18; April-May 2011 | 500 – 850 | 1.83 | 35 | 32.4 | 34.2 | 34.1 | 26.0 |
| Fresh Kills Reach (Reach J): Begins at GREEN LIGHTED #21 FLOOD and extends to a point approximately 70 feet seaward of RED LIGHTED #30 EBB | Map 1334, Pg 9 – 12 of 18; April-May 2011 | 500 | 1.66 | 35 | 33.1 | 34.6 | 35.9 | 32.2 |
| Tremley Point Reach (Reach I): Begins approximately 70 feet seaward of RED LIGHTED #30 EBB and extends to a point approximately 820 feet seaward of RED LIGHTED #38 EBB | Map 1334, Pg 12 – 14 of 18; April-May 2011 | 500 | 0.98 | 35 | 30.0 | 34.6 | 35.8 | 33.2 |
| Pralls Island Reach (Reach H): Begins at a point approximately 820 feet seaward of RED LIGHTED #38 EBB and extends to a point approximately 5,662 feet landward of RED LIGHTED #38 EBB | Map 1334, Pg 14 -16 of 18; April-May 2011 | 500 | 1.13 | 35 | 31.7 | 34.3 | 36.5 | 28.5 |
| Gulfport Reach (Reach G)(Partial): Begins at a point approximately 5,662 feet landward of RED LIGHTED #38 EBB and extends to a point approximately 250 feet landward of Goethals Bridge | Map 1334, Pg 16 -18 of 18; April-May 2011 | 600 – 500 | 1.08 | 35 | 33.1 | 36.2 | 37.4 | 29.5 |

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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 1050ft. in length is present in the Left Outside Quarter beginning 180ft. landward of the Outerbridge Crossing. Minor shoaling exists along the left and right channel edges in the remainder of the reach.
- **Port Secony Reach (Reach L):**
 - A 2,700 ft shoal starts at about 2,500 ft landward of the beginning of the reach and runs throughout the left outside quarter to approx. 250 ft beyond the end of the Reach with a maximum width of 260 ft at the channel bend.
 - Sporadic shoaling starts at a point approx. 200 ft seaward of RED #8 EBB along the right channel edge for 900 ft with maximum width of 150 ft. A second shoal (approx. 1,700 ft in length) starts at a point approx. 400 ft. landward of RED LIGHTED #10 FLOOD and continues landward along the right outside quarter for a distance approx. 450ft. beyond the end of this Reach (approx. 50ft. landward of RED LIGHT #12 FLOOD).
- **Port Reading Reach (Reach K):**
 - An extension (approx. 130 ft wide by 220 ft long) of a shoal from the previous reach exists in the Left Outside Quarter. Minor shoaling also exists along the left channel edge together with an isolate spot shoal in the Left Inside Quarter with minimum depth of 34.2 ft at the end of the Reach near GREEN LIGHTED #21 FLOOD.
 - An extension (approx. 200 ft wide by 400 ft long) of a shoal 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):**
 - Shoaling occupies most of the channel width for the first 2,200 ft of the Left Outside Quarter. Sporadic shoaling exists for the remaining of the Left Outside Quarter and along the left channel edge.
 - Minor spot shoaling in the Left Inside Quarter at the beginning of the Reach.
 - Minor shoaling along the channel edge in the Right Outside Quarter.
- **Tremley Point Reach (Reach I):**
 - Shoaling exists at the first channel bend and along the left channel edge with maximum width of 70ft..
 - Spot shoal also exists 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 1st channel bend of the reach in the Left Outside Quarter with a maximum width of 100 ft. Minor shoaling exists along most of the remaining length of the Left Outside Quarter. .
 - Minor spot 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 60 ft.
- **Gulfport Reach (Reach G) (Partial):**
 - Minor shoaling exists at the beginning of the Left Outside Quarter.
 - Minor shoaling exists along the Right Outside Quarter along the channel edge for most of the length of the Reach and has a maximum width of about 60 ft.