

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

PAGE 1 **OF** 2

DATE July 2004

TO:

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 – Arthur Kill Reach (from Outerbridge Crossing to North of Shooters Island)

**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 (miles)	DEPTH (feet)				
<u>Outerbridge Reach (part) - mile points 13.1 to 14.9</u>	Feb-March 2003 Map #1244(2,3)	600	1.8	35	34.0	34.2	36.0	33.7
<u>Port Socony Reach – mile points 14.9 to 15.9</u>	March 2004 Map # 1253(4,5,6)	600-800	1.0	35	29.9	34.9	35.5	34.3
<u>Port Reading Reach – mile points 15.9 to 18.0</u>	March 2004 Map # 1253 (7,8,9,10)	500	2.1	35	19.6	34.5	35.2	27.2
<u>Fresh Kill Reach – mile Points 18.0 to 19.9</u>	March 2004 Map # 1253 (10,11,12,13)	500	1.9	35	31.7	35.0	36.4	33.0
<u>Tremley Point Reach – mile points 19.0 to 21.0</u>	March 2004 Map # 1253 (13,14,15)	500-600	1.1	35	31.0	37.4	36.1	30.0
<u>Pralls Island Reach – mile points 21.0 to 22.3</u>	March 2004 Map # 1253 (15,16,17)	500-600	1.3	35	32.4	34.9	35.5	29.7
<u>Gulfport Reach – mile points 22.3 to 23.8</u>	March 2004 Map # 1253 (17,18,19)	600-500	1.5	35	17.4	36.6	36.7	21.2

REMARKS:

All depths are in MLW.

Controlling Depth Report is based on ships entering channel from south going north. The left channel line is parallel to the New Jersey shore and the right channel line is parallel to the Staten Island shore.

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		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
<u>Elizabethport Reach – mile points 23.8 to 24.8</u>	March 2004 Map # 1253 (19,20,21)	500-600	1.0	35	29.0	37.1	35.7	30.3
<u>North of Shooters Island reach – mile points 24.8 to 26.0</u>	March 2004 Map # 1253 (21,22,23)	600-800	1.2	35	30.7	36.3	34.0	29.2

REMARKS:

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The soundings indicated severe shoaling in several locations:

- Port Socony Reach (from the vicinity of Buoy #10 to the vicinity of Buoy #12) - Shoaling at the northerly portion of the Port Socony Reach has reduced the authorized channel width (with depth of 35 ft.) from 800 ft. to 540 ft.
- Port Reading Reach (from the vicinity of Buoy #12 to the vicinity of Buoy #16) – Shoaling at the southerly portion of the Port Reading Reach has reduced the authorized channel width (with depth of 35 ft.) from 500 ft. to 380 ft.
- Elizabethport Reach/North of Shooters Island Reach (from the vicinity south of Buoy #20 to the vicinity north of Buoy A) – Shoaling at this portion of the channel has reduced the authorized channel width (with depth of 35 ft.) from 600 ft. to 310 ft.