REPORT OF CHANNEL CONDITIONS
(FOR CHANNELS 400 FEET WIDE OR GREATER)

DATE: 13 April 2016

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:
Hudson River Channel, New York

MINIMUM DEPTHS IN EACH ¼ WIDTH OF CHANNEL ENTERING FROM SEAWARD

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Reach A (Center): Commences at the entrance of the channel approximately 550 feet seaward of GREEN LIGHT #35, and continues to a point at the approximate location of W. 40th Street in NYC	Map 274, Pgs. 1-5 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	2,000	4.42	45	37.4	42.5	44.4	42.3
Reach B (New Jersey): Commences approximately 1,400 feet landward of the entrance of the channel at a point approximately 900 feet landward of GREEN LIGHT #35, and continues to a point at the approximate location of W. 40th Street in NYC	Map 274, Pgs. 1-5 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	200 - 850	3.84	40	24.0	26.7	29.8	33.3
Reach C (New York): Commences approximately 2,240 feet landward of the entrance of the channel at the junction with the East River, and continues to a point at the approximate location of W. 40th Street in NYC	Map 274, Pgs. 1-5 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	485-1,000	4.01	40	41.0	39.9	31.2	20.9
Reach D (Center): Commences at the approximate location of W. 40th Street in NYC, and continues to a point at the approximate location of Pier No. 99 in NYC around W. 59th Street	Map 274, Pgs. 5-6 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	2,000	0.87	48	46.8	51.6	45.7	25.3
Reach E (New Jersey): Commences at the approximate location of W. 40th Street in NYC, and continues to a point at the approximate location of Pier No. 99 in NYC around W. 59th Street	Map 274, Pgs. 5-6 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	265 - 775	0.86	40	19.6	32.4	43.6	44.9
Reach G: Commences at the approximate location of Pier No. 99 in NYC around W. 59th Street, and continues to a point located approximately opposite W. 75th Street in NYC	Map 274, Pgs. 6-7 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	750	0.72	30	24.6	32.2	34.4	37.5
Partial Reach H: Survey coverage commences at a point located approximately opposite W. 75th Street in NYC, and continues to a point located approximately 7,030 feet landward of the beginning of the reach (in the approximate vicinity of opposite W. 102nd Street in NYC)	Map 274, Pgs. 7-8 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	750	1.38	30	25.6	27.2	28.6	30.4
Partial Reach I: Survey coverage commences at a point located approximately 640 feet seaward of the Ameranda Hess Oil Terminal Wharf (in the approximate vicinity of opposite W. 122nd Street in NYC), and continues to the approximate location of the Ameranda Hess Oil Terminal Wharf (in the approximate vicinity of opposite W. 122nd Street in NYC)	Map 274, Pgs. 8-9 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	750	0.61	30	17.7	20.1	22.2	24.6

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MINIMUM DEPTHS IN EACH ¼ WIDTH OF CHANNEL ENTERING FROM SEAWARD

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Reach J: Commences at the approximate location of the Ameranda Hess Oil Terminal Wharf (in the approximate vicinity of opposite W. 122nd Street in NYC), and continues to a point located approximately opposite the New York City Department of Sanitation Marine Transfer Station Barge Slip (in the approximate vicinity of opposite W. 135th Street in NYC)	Map 274, Pgs. 9-10 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	750	0.57	30	15.0	17.2	19.7	22.7
Reach K: Commences at a point located approximately opposite the New York City Department of Sanitation Marine Transfer Station Barge Slip (in the approximate vicinity of opposite W. 135th Street in NYC), and continues to approximately opposite W. 156th Street in NYC	Map 274, Pg. 10-11 of 11; 17 - 19 Nov. 2015; 2, 3, 7, 8, 17, 30 Dec. 2015; 4 - 7 Jan. 2016	750	0.97	30	16.2	19.6	22.1	23.6

REMARKS:

- All reported depths are relative to Mean Lower Low Water (MLLW) datum
- Channel reach lengths are in nautical miles

Hudson River Channel

- **Reach A:** Shoaling exists along the outside edge of the Left Outside Quarter beginning approximately 910 feet landward of GREEN LIGHT #35 and continuing landward for approximately 6,400 feet. Spot shoals exist in the Left Inside, Right Inside, and Right Outside Quarters beginning approximately 2,540 feet landward of GREEN CAN #1 at the vicinity of the channel's first bend, and continuing landward sporadically throughout the remainder of the reach.

- **Reach B:** Shoaling exists across the majority of the entire width of the reach from approximately to beginning of the reach, to the approximate location of GREEN CAN #1. Thence, further landward the shoal begins to taper, but exists throughout much of the Left Outside Quarter for the majority of the remainder of the reach. At some locations, the shoal widens into the Left and Right Inside Quarters.

- **Reach C:** Shoaling exists in the Right Outside Quarter for much of this reach, with the shoal widening into the Right Inside Quarter. Shoaling also exists in the Left Inside Quarter for approximately the last 765 feet of this reach. There is a spot shoal in the Left Inside Quarter located approximately 2,310 feet from the beginning of the reach.

- **Reach D:** Shoaling exists throughout most of the Right Outside Quarter for the majority of the length of this reach, with the shoal extending into the Right Inside Quarter at some locations. However, project depth is available in the majority of the Left Outside, Left Inside, and Right Inside Quarters for the entire length of this reach.

- **Reach E:** Shoaling exists in the Left Outside Quarter for the entire length of the reach, extending into the Left Inside Quarter approximately the last 1,545 feet of this reach. Project depth is available throughout the entire Right Half of the channel for this entire reach.

- **Reach G:** Shoaling exists throughout much of the Left Outside Quarter for this entire reach. Project depth is available throughout the Left Inside, Right Inside, and Right Outside Quarters of this entire reach.

- **Partial Reach H:** Shoaling exists along the toe of the Left Outside Quarter of the channel for approximately the first 730 feet of this partial reach. Thence, shoaling exists throughout much of the Left Outside and Left Inside Quarters beginning approximately 3,450 feet landward of the beginning of the partial reach, and continues landward to the end of this partial reach. At some locations within those same parameters, the shoaling extends into the Right Inside Quarter.

- **Partial Reach I:** Where survey coverage exists, there is shoaling across the entire channel's width for the entire length of this partial reach.

- **Reach J:** Shoaling exists across the channel's entire width throughout the entire length of this reach.

- **Reach K:** Shoaling exists across the entire width of the channel for approximately the first 1,610 feet of the reach. Thence, further landward the shoal begins to taper across the channel's entire width to a point approximately 1,715 feet seaward of the end of the reach, at which point project depth becomes available across the channel's entire width.