

**U.S. ARMY ENGINEER DISTRICT, NEW ENGLAND
CORPS OF ENGINEERS
696 Virginia Road
Concord, Massachusetts 01742-2751**

*mailed
14.00 p.m*

Feb. 17, 2006
✓

CENAE-EP-DS (11-2-240a)

MEMORANDUM FOR: See Distribution

SUBJECT: Results of Survey

1. In accordance with department regulations, there is enclosed a drawing showing results of survey in the following Federal project:

Housatonic River, CT

2. Controlling depth information for the above project is shown on the enclosed copy of navigation and chart data.

FOR THE COMMANDER:

2 Enclosures
1. ENG Form 4020-R
2. Dwg. No. HC-512

STEPHEN A. JOHNSTON
Chief, Survey Section



JOHNSTON
PROOFREAD

DISTRIBUTION:

GENERAL

Chief Operations Division, Lyn Preston, Nautical Data Branch/NOAA, N/C26, Station 7350
1315 East-West Highway, Silver Springs, MD 20910-3282 - 1 copy of drawing, 1 copy of form

USCG District 1(oan), 408 Atlantic Avenue, Boston, MA 02210-3350 - 4 copies of drawing, 4 copies of form

USCG Cutter Willow, NETC Pier 2 – ATTN: Desiree Atnip, Newport, RI 02841 – 1 copy of drawing, 1 copy of form

Kevin J. Blount Chief, Waterways Management & Marine Information Section – First Coast

Guard District 1 (oan) - 408 Atlantic Ave. Boston, MA 02110 – 3350
1 copy of drawing, 1 copy of form

CONNECTICUT (The following address receive information for all CT Project)

Mr. Dave Rossiter
Bureau of Aviation & Ports
Office of Waterways State Pier
CT Department of Transportation
New London, CT 06320

1 drawing of map

**REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE
(ER 1130-2-316)**

DATE: Feb. 17, 2006

T0:

**FROM: U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA. 01742-2751**

RIVER/HARBOR NAME AND STATE: Housatonic River, CT

Dwg. No. HC-512, Sheets 1-21 of 21, Dated 16 February 2006

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH Nautical (miles)	MLLW DEPTH (feet)			
<u>CONDITION SURVEY</u> <u>18-Foot Channel</u>							
From about 55' seaward of Housatonic Breakwater Lt. (FI R-2A) upstream 2,860'	2-3/05 2/06	200	0.47	18.0	(1) 10.0	(1) 10.4	(1) 11.2
Thence upstream 4,010' to Buoys GC-9 and RN-10	2-3/05	200	0.66	18.0	(2) 17.4	18.0	(3) 13.3
Thence upstream 2,920' to Buoy RN-12 (about 360' upstream of Beacon FI G-11)	2-3/05	200 to 250	0.48	18.0	(4) 16.8	16.9	(5) 17.1
Thence upstream 4,920' (about 150' seaward of Buoy GC-19)	2-3/05	250 to 200	0.81	18.0	15.6	12.8	(6) 10.0
Thence upstream 1770' to Buoy GC-23	2-3/05	200 to 250	0.29	18.0	2.5	2.7	6.8
Thence upstream 3,310' to about the seaward face of Washington St. Bridge	2-3/05	250 to 200 to 125	0.54	18.0	(7) 11.4	12.0	(8) 12.0
Thence upstream 1,930' (about 30' upstream of face of Rail Road Bridge)	2-3/05	125 to 370 to 85	0.32	18.0	(9) 7.2	9.9	(10) 9.1
Thence upstream 3,650' (about 230' upstream of Buoy GC-29 to the end of the 18-Foot Channel)	2-3/05	80 to 330 to 200	0.60	18.0	(11) 8.3	9.1	10.5

GENERAL NOTE: The information shown on this sheet(s) represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

FOOT NOTES:

- (1). Shoaling extends 750' seaward in approach to federal channel.
- (2). Except for shoaling to 16.7' within 10' of west channel limit located about 450' seaward of Beacon FI G-7 to Buoy GC-9.
- (3). Except for shoaling to 12.1' within 10' of east channel limit located about 150' to 350' upstream of Buoy RN-4.
- (4). Except for shoaling to 15.9' within 15' of west channel limit located about 1,200' to 1,500' upstream of Buoy GC-9.
- (5). Except for shoaling to 15.5' within 15' of east channel limit located about 10' to 50' upstream of Buoy RN-10.
- (6). Except for shoaling to 8.8' within 10' of west channel limit located about 270' to 500' upstream of Buoy RN-12.
- (7). Except for shoaling to 11.1' within 10' of west channel limit located about 400' to 800' upstream of Buoy GC-23.
- (8). Except for isolated shoaling to 11.3' within 10' of east channel limit located about 1,700' to 1,850' upstream of Buoy GC-23.
- (9). Isolated shoaling located in the narrowing width of the federal channel located within the area of the Rail Road & I-95 Bridge; 11.2' available elsewhere.
- (10). Except for shoaling to 8.8' within 10' of west channel limit.
- (11). Except for shoaling to 7.7' within 10' of east channel limit.

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New England District
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		WIDTH (feet)	LENGTH Nautical (miles)	MLLW DEPTH (feet)			
<u>CONDITION SURVEY</u> <u>7-Foot Culvers Bar</u> From about 700' seaward of Buoy GC-31 upstream 610'	2-3/05	200 to 100	0.10	7.0	2.4	2.7	4.3
<u>7-Foot Mill Bar</u> From about 190' seaward of Buoy RN-34 upstream 2,220' (250' upstream of Buoy GC-37)	7-9/05	100	0.37	7.0	3.5	2.9	2.6
<u>7-Foot Oronoque Bar (Lower)</u> From about 50' seaward of Buoy RN-40 upstream 850'	7-9/05	100	0.14	7.0	6.2	5.7	5.7
<u>7-Foot Oronoque Bar (Upper)</u> From about 220' seaward of Buoy RN-44 upstream 870'	7-9/05	100	0.14	7.0	3.0	3.1	3.7

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Dwg. No. **HC-512, Sheets 1-21 of 21, Dated 16 February 2006**

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH Nautical (miles)	MLLW DEPTH (feet)			
<u>CONDITION SURVEY</u>							
<u>7-Foot Camp Meeting Bar</u>							
From about 100' seaward of Buoy GC-53 upstream 1,390' (about 600' upstream of Buoy RN-54)	7-9/05	100	0.23	7.0	5.6	5.6	5.5
<u>7-Foot Drews Bar</u>							
From about 770' seaward of Buoy RN-62 upstream 2,050'	7-9/05	100	0.34	7.0	(12) 3.9	(13) 6.5	(14) 6.2
<u>7-Foot Moulthrogs Bar</u>							
From about 450' upstream of Buoy RN-68 upstream 1,800'	7-9/05	100	0.30	7.0	7.0	7.0	7.0
<u>7-Foot Hidelum Bar</u>							
From about 1,400' upstream of east end of Moulthrogs Bar upstream 1,390'	7-9/05	100	0.23	7.0	7.0	7.0	7.0

GENERAL NOTE: The information shown on this sheet(s) represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

FOOT NOTES:

- (12). Shoaling located about 770' to 50' seaward of Buoy RN-62; 7.0 available elsewhere except for an encroachment of docks and floats at Beacon Point Marina located about 660' seaward to 20' upstream of Buoy RN-62.
- (13). Encroachment of docks and floats at Beacon Point Marina located from about 70' to 540' seaward of Buoy RN-62.
- (14). Shoaling located within last 30' of channel; 7.0' available elsewhere.

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PAGE 4 OF 4 PAGES

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<u>CONDITION SURVEY</u>							
<u>7-Foot Two Mile Island Bar</u> From opposite the northern end of Two Mile Island upstream about 1,900'	7-9/05	100	0.31	7.0	7.0	+0.6	(15) +0.9
<u>7-Foot Sow and Pigs Bar</u> From about 560' seaward of the end of Sow and Pigs Jetty upstream 950'	7-9/05	100	0.16	7.0	(16) 7.0	7.0	7.0
<u>7-Foot Shelton Bar</u> From about 70' seaward of the southern end of O'Sullivan Island upstream 1,320'	7-9/05	100	0.22	7.0	(17) 2.6	(18) 1.7	0.7

GENERAL NOTE: The information shown on this sheet(s) represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

- FOOT NOTES:**
- (15). Shoaling located about 200' to 700' upstream from entrance of channel; 4.8' available elsewhere except for shoaling to +1.5' within 10' of east channel limit.
 - (16). Except for isolated shoal of 6.1 within 10' of approach to channel.
 - (17). Shoaling located about 900' to 1,250 from entrance of channel; 5.6' available elsewhere.
 - (18). Shoaling located about 900' to upstream end of channel; 6.6' available elsewhere.