

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

April 11, 2007

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:

Salem Harbor – Salem, MA

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

FOR THE COMMANDER:

STEPHEN A. JOHNSTON
Chief, Survey Section

- 2 Enclosures:
1. ENG Form 4020-R
2. Dwg. No. 211 SH



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

Capt. E. Howard McVay Jr. - Northeast Marine Pilots Incorporated, 243 Spring Street,
Newport, RI 02840 – 1 copy of drawing,

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

MASSACHUSETTS

Director, DEM Waterways, 349 Lincoln Street, Building 45, Hingham, MA 02043-1609
1 copy of drawing, 1 copy of form

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

DATE: 11 APRIL 2007

T0: FROM: U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA. 01742-2751

RIVER/HARBOR NAME AND STATE: Salem Harbor, Salem, MA
Dwg. No. 211 SH, Sheets 1-8 of 8, Dated 11 April 2007

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>AFTER DREDGE SURVEY</u>							
<u>32-Foot Channel</u>							
From about 1,218' seaward of Buoy RN-14 upstream about 12,240'	1/07	300	2.01	32.0	32.0 ⁽¹⁾	32.0	32.0 ⁽²⁾
Thence about 2,409' to upstream limit of Federal Channel about 165' upstream of Buoy RN-24	1/07	300 to 645 to 400 to 495	.40	32.0	32.0	32.0	32.0 ⁽³⁾
<u>10-Foot South River Channel</u>							
From about 670' seaward of Derby Wharf Light seaward about 1,505'	1/07	300 to 245	.25	10.0	9.5 ⁽⁴⁾	9.5	9.8
<u>8-Foot South River Channel</u>							
From about 670' seaward of Derby Wharf Light upstream about 817'	1/07	245 to 210 to 145 to 135 to 90	.13	8.0	8.0	7.8	7.7
Thence upstream about 960' (approximately 150' seaward of Central Wharf)	2/06	90 to 110	.16	8.0		5.4 ⁽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) Except for shoaling to 31.9' within 10' along channel limit from about 0' to 50' upstream of Buoy Fl G-17.
- (2) Except for shoaling to 31.5' within 10' along channel limit from about 950' to 1,050' upstream of Buoy Fl R-16; except for shoaling to 31.3' within 10' along channel limit from about 425' to 485' upstream of Buoy Fl G-21.
- (3) Except for shoaling to 31.5' within 10' along channel limit from about 125' seaward to 1,600' upstream of Buoy Fl R-22; except for shoaling to 31.9' within 40' along channel limit from about 75' to 125' upstream of Buoy Fl R-22.
- (4) Except for scattered shoaling to 9.1' within 10' along channel limit.
- (5) Except for shoaling to 4.9' along east channel limit.

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TO:	FROM: U.S. Army Corps of Engineers New England District 696 Virginia Road Concord, MA. 01742-2751
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RIVER/HARBOR NAME AND STATE: Salem Harbor, Salem, MA Dwg. No. 211 SH, Sheets 1-8 of 8, Dated 11 April 2007	MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD
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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>AFTER DREDGE SURVEY</u>							
<u>8-Foot Derby Wharf Channel and Turning Bain</u>							
From about 435' seaward of Derby Wharf Light upstream about 1,233'	1/07	475 to 245 to 100 to 200	.20	8.0	7.4 ⁽⁶⁾	7.9 ⁽⁷⁾	8.0 ⁽⁸⁾
<u>6-Foot Channel</u>							
From about 150' east of Central Wharf upstream about 800'	2/06	300 to 245	.13	6.0		6.0 ⁽⁹⁾	

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:**
- (6). Except for shoaling to 7.3' within 5' along channel limit from about 290' to 320' upstream of Derby Wharf Light.
 - (7). Except for shoaling to 6.8' within 140' from upstream end of Federal Channel Limit.
 - (8). Except for shoaling to 7.6' within 5' along channel limit;
Except for shoaling to 5.3' within 5' radius of northeast corner of upstream end of Federal Channel Limit.
 - (9). Except for shoaling to 5.2' within 140' of upstream end of Federal Channel Limit.