

3775 W.D.

Diag. Cht. No. 1208-E

Form 504
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: *Mass.*

11-5613

DESCRIPTIVE REPORT.

Sheet No. *3775*

LOCALITY:
*Massachusetts and
 Cape Cod Bays*

Minot Light House

to

Gurnet Light House

1915

CHIEF OF PARTY:
G. H. Hawley

9223

U.S. COAST AND GEODETIC SURVEY

Register No. 3775.

STATE	Massachusetts
GENERAL LOCALITY	Massachusetts and Cape Cod Bays
LOCALITY	Minots L.H. to Gurhet L.H.
Surveyed by	Wire Drag Party No. 2
Chief of Party	Jean H. Hawley, Assistant
Date	May 12th to Sept. 29, 1915.
Scale	1 : 25,000

SOUNDINGS IN FEET

	Plane of reference	Mean low water
Protracted by	N.P.White, O.S.Reading, R.L.Schoppe	
Soundings plotted by	N.P.White, O.S.Reading, R.L.Schoppe	
Inked by	O.S.Reading, WH. Clark.	
Verified by	J.H.Hawley, N.P.White, R.L.Schoppe.	

DESCRIPTIVE REPORT

to accompany

Hydrographic (wire drag) sheet No. 3775.

DESCRIPTIVE REPORT

Sheet No. 3775

The work on this sheet covers the principal work done by Wire Drag Party No. 2 during the 1915 season in Massachusetts and Cape Cod Bays.

The drag lines were protracted and the depths were inked by members of the field party. The following colors were used for inking the depths.

40 feet and over	Red
30 to 39 feet	Blue
20 to 29 feet	Green
19 feet and under	Brown

The positions of the retained soundings were plotted and the numbers were inked in red. The soundings are entered in pencil and are expressed in feet.

Owing to the use of a new kind of wire, there was considerable uncertainty as to the effective depth of the drag at different times. Careful tests were therefore made during the entire season and it is believed that the corrections for lift, based on the results of these tests, are ample.

Several small splits were developed by the plotting on the smooth sheet and the locations of these are noted in pencil at the lower end of the sheet.

The work as far south as Brant Rock was done from Scituate, the remainder being done from Plymouth.

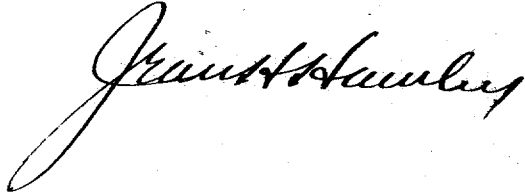
The location of the bell buoy off Scituate has been changed since the completion of the work and it is therefore not shown on the sheet.

The water tower, called "Sic" on the sheet, is a very prominent object and should be shown on the chart. It is readily seen at a distance of 15 miles and, during clear weather, can undoubtedly be picked up at a much greater distance.

All changes in charted depths have been reported previously. Their reported locations however were based on boat sheet positions and depths

were reduced by using predicted tides. The soundings shown on the sheet therefore supercede previous reports when they differ in depth or position.

Respectfully submitted,

A handwritten signature in cursive script, reading "Grant Hawley". The signature is written in dark ink and is centered on the page.

Chief of Party, C. & G. Survey.

STATISTICS, SHEET NO. 3775

Day	Date 1915	Length of drag ft.	Miles of drag line	Positions		Soundings	
				No.	Angles	No.	angles
A	May 13	3900	1.8	11	58	-	--
B	15	4000	9.2	44	260	1	2
C	24	5000	9.0	48	286	-	--
D	25	5000	10.8	43	256	-	--
E	26	6000	2.4	15	80	-	--
F	29	6000	7.0	40	133	-	--
G	Jun 1	4000	5.4	34	169	3	6
H	5	4000	2.2	13	76	-	--
J	8	4000	3.0	28	162	9	18
K	9	4000	4.1	29	178	9	20
L	10	4000	4.0	36	220	16	34
M	11	4000	11.0	69	412	1	4
N	12	4000	5.4	33	196	-	--
O	18	4000	4.5	25	137	-	--
P	19	4000	2.0	21	124	1	4
Q	21	4000	1.0	10	56	7	14
R	22	4000	11.3	65	384	4	8
S	24	4000	4.0	23	138	4	8
T	25	4000	4.5	31	180	3	6
U	26	3000	0.2	3	16	2	4
V	28	3000	5.8	59	348	9	20
W	29	3000	3.2	34	200	11	24
X	30	3000	3.2	29	168	7	14
Y	Jul 3	3000	1.0	11	66	2	4
Z	6	3000	5.5	63	374	2	4
A'	7	3000	7.2	69	384	4	9
B'	8	3000	0.3	7	38	1	2
C'	10	3000	6.5	66	386	3	6
D'	12	3000	6.6	63	372	3	6
E'	13	4000	5.5	33	190	7	16
F'	14	3000	5.3	49	282	6	12
G'	17	3000	5.8	55	323	1	2
H'	19	4000	4.5	30	171	-	--
J'	20	5000	6.3	34	202	11	24
K'	21	5000	0.5	5	27	-	--
L'	23	4000	5.8	32	190	-	--
M'	24	5000	5.8	31	182	-	--
N'	26	4000	4.3	29	174	4	10
O'	27	4000	2.2	20	120	1	3
P'	28	4000	7.4	45	269	1	2
Q'	29	4000	1.9	17	101	1	2
R'	Aug 10	4000	4.1	34	198	-	--
S'	11	7200	7.5	52	192	-	--
T'	13	4000	4.7	35	208	1	2
U'	14	3000	2.7	28	164	3	6
V'	16	3000	5.1	47	276	2	4
W'	17	3000	2.1	23	132	2	4
X'	19	7200-3000	5.1-2.0	21-19	123-114	-	--
Y'	20	1600	0.7	8	48	1	2
Z'	24	5000	3.2	14	82	-	--

Statistics, Sheet No. 3775 (con't)

Day	Date 1915	Length of drag	Miles of drag line	Positions		Soundings	
				No.	Angles	No.	Angles
A"	Aug 25	7200	4.5	18	123	-	--
B"	26	7200	5.0	24	168	-	--
C"	28	5000	5.0	25	146	-	--
D"	30	8400	2.0	8	56	-	--
E"	31	5000	3.0	25	148	-	--
F"	Sept 2	7200	7.0	27	189	-	--
G"	4	5000	3.9	29	172	-	--
H"	8	5000	4.0	30	176	5	10
J"	9	5000	3.0	20	114	-	--
K"	10	5000	2.7	21	124	4	8
L"	11	4000	4.0	32	188	2	4
M"	13	5000	2.5	14	82	-	--
N"	14	1800	0.7	18	96	8	16
O"	15	1800	3.2	44	258	3	6
P"	16	3000	3.0	36	210	4	8
Q"	17	3000	5.8	57	234	7	14
R"	20	3000	7.2	64	382	2	4
S"	23	9000	5.4	22	132	-	--
T"	24	2400	1.0	16	96	2	4
Totals			307.5	2191	12801	180	380

Minimum length of drag 1600 feet
 Maximum length of drag 9000 feet

Area 125 square statute miles.

Retained soundings 145

TIDES

The tide gauge was located at Nut Island in Boston Bay. The tides were obtained by Assistant Heck and copies of the readings were forwarded by him for use in reducing the records.

VEC
Dec. 8, 1915

L. P. S.

HYDROGRAPHIC SHEET 3775.

Boston Bay, Massachusetts, by Assistant Jean H. Hawley in
1915.

TIDES.

	Nut Island ft.
Approximate low water or plane of reference on staff	0.6*
Lowest tide observed " "	-1.1
Highest " " " "	12.4
Mean range of tide	9.0

*The best determined mean low water computed in Section
of Tides reads 1.2 ft. on staff, and is therefore 0.6 ft.
higher than that to which the soundings have been reduced.