

3776

U. S. SURVEY
L. & A.
JES 7 1917
Acc. No.

Diag. Cht. No. 1208-2

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

State: *Massachusetts*

11-5013

DESCRIPTIVE REPORT.

Hyd. Sheet No. **3776**

LOCALITY:
Cape Cod Bay

1915

CHIEF OF PARTY:
J. H. Hawley

3776

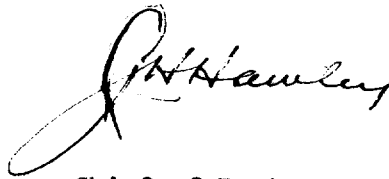
DESCRIPTIVE REPORT

To accompany hydrographic sheet No. 3776.

The work on this sheet extends from the southern limit of the wire drag work done during the 1915 season to the Cape Cod Canal. It is done in accordance with instructions dated April 21st 1916.

The work is completed within the limits shown. No important shoals were found and the shoals that were found have been reported.

The usual methods of wire drag work were followed in the execution of this work.

A handwritten signature in cursive script, appearing to read "J. W. Hawley". The signature is written in dark ink and is positioned above the typed name.

Chief of Party.

STATISTICS
to accompany sheet No. 3776

Day	Date 1916	Length of drag	Miles of drag line	Positions		Soundings	
				No.	Angles	No.	Angles
A	May 19	5,000	2.7	20	116	4	8
B	" 20	5,000	4.25	24	142	1	2
C	" 22	5,000	7.3	43	258	2	4
D	23	5,000	4.0	21	126	0	0
E	24	5,000	7.8	38	226	0	0
F	25	4,000	8.9	77	458	2	4
G	26	9,000	7.1	32	192	0	0
H	27	3,200	3.4	26	154	3	6
J	31	3,000	7.2	58	346	10	20
K	June 1	9,000	7.1	29	174	0	0
L	2	3,000	0.8	12	70	11	22
M	3	3,000	3.6	38	228	2	4
N	5	3,200	3.7	42	252	5	10
O	6	3,200	2.6	36	208	2	4
P	7	4,000	9.4	61	358	0	0
Q	12	2,400	8.2	74	451	2	4
R	13	2,400	4.5	36	216	0	0
S	14	14,400	4.5	18	113	0	0
T	15	9,000	2.6	13	77	0	0
U	19	3,000	2.0	23	120	10	20
V	20	3,000	5.6	53	311	4	8
W	21	9,000	9.0	30	180	0	0
X	23	5,000	5.8	50	300	0	0
Y	24	3,200	0.8 R	9	54	5	10
ZZ	25	3,200	3.1	31	180	7	14
A'	27	4,000	6.3	32	189	0	0
B'	29	3,000	8.6	62	370	0	0
C'	30	9,000	4.0	19	111	0	0
D'	July 1	5,000	5.2	23	136	0	0
E'	6	4,000	10.7	43	258	0	0
F'	7	5,000	7.6	31	184	0	0
G'	8	5,000	7.0	30	178	0	0
H'	15	5,500	7.0	35	208	0	0
J'	17	3,000	5.8	59	345	2	4
K'	18	4,000	8.0	43	252	3	6
L'	19	4,000	7.1	58	340	0	0
M'	20	4,000	3.8	32	190	0	0
N'	26	4,000	9.3	41	244	0	0
O'	27	4,000	4.4	22	132	0	0
P'	28	4,000	3.2	22	130	0	0
Q'	29	3,000	3.2	32	190	16	32
R'	31	3,000	6.0	65	386	3	6
S'	Aug. 1	9,000	6.8	26	156	0	0
T'	2	9,000	8.8	34	204	0	0
U'	3	5,500	10.7	46	274	0	0
V'	4	9,000	8.3	35	207	0	0
W'	7	3,000	8.5	68	404	0	0
X'	8	5,000	8.8	44	262	1	2
Y'	12	4,000	5.0	33	194	4	8
Z'	14	4,000	7.1	45	270	2	4
A''	15	4,000	2.2	19	112	2	4
B''	16	4,000	3.0	20	146	2	4

304.35

1913

105

PLANE TABLE POSITIONS.

Object	Latitude	d.m.	Longitude	d.p.
Chimney on cottage	41	58 520m	70 38 1035m	
East gable cottage	41	58 351m	70 38 1029m	
East gable, red roofed cottage	41	57 1809m	70 38 840m	
Cupola on house	41	56 1239m	70 38 210m	
Spire on barn	41	56 1143m	70 38 105m	
Pump house on beach	41	56 1662m	70 35 1200m	
Tall flag staff	41	56 1356m	70 35 1230m	
Life saving station, Rocky Point	41	55 1095m	70 32 688m	
Chy. on house, North end long sand cliff	41	54 300m	70 32 930m	

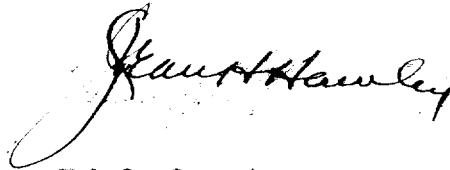
DESCRIPTIVE REPORT

To accompany hydrographic sheet No. 3776.

The work on this sheet extends from the southern limit of the wire drag work done during the 1915 season to the Cape Cod Canal. It is done in accordance with instructions dated April 21st 1916.

The work is completed within the limits shown. No important shoals were found and ~~those that were found~~ those found have been reported.

The usual methods of wire drag work were followed in the execution of this work.



Chief of Party.

STATISTICS
to accompany sheet No. 3776

Day	Date 1916	Length of drag	Miles of drag line	Positions		Soundings	
				No.	Angles	No.	Angles
	May 19	5,000	2.7	20	116	4	8
B	" 20	5,000	4.25	24	142	1	2
C	" 22	5,000	7.5	45	258	2	4
D	23	5,000	4.0	21	126	0	0
E	24	5,000	7.8	58	226	0	0
F	25	4,000	8.9	77	458	2	4
G	26	9,000	7.1	32	192	0	0
H	27	3,200	3.4	26	154	3	6
J	31	3,000	7.2	58	346	10	20
K	June 1	9,000	7.1	29	174	0	0
L	2	3,000	0.8	12	70	11	22
M	3	3,000	3.6	38	228	2	4
N	5	3,200	3.7	42	252	5	10
O	6	3,200	2.6	36	208	2	4
P	7	4,000	9.4	61	358	0	0
Q	12	2,400	8.2	74	451	2	4
R	15	2,400	4.5	56	216	0	0
S	14	14,400	4.5	18	113	0	0
T	15	9,000	2.6	15	77	0	0
U	19	3,000	2.0	25	120	10	20
V	20	3,000	5.6	35	311	4	8
W	21	9,000	9.0	30	180	0	0
X	23	5,000	5.8	30	300	0	0
Y	24	3,200	0.82	9	54	5	10
ZZ	25	3,200	3.1	31	180	7	14
A'	27	4,000	6.3	32	189	0	0
B'	29	3,000	8.6	62	370	0	0
C'	30	9,000	4.0	19	111	0	0
D'	July 1	5,000	5.2	23	156	0	0
E'	6	4,000	10.7	43	258	0	0
F'	7	5,000	7.6	31	184	0	0
G'	8	5,000	7.0	30	178	0	0
H'	15	5,500	7.0	35	208	0	0
J'	17	3,000	5.8	59	345	2	4
K'	18	4,000	8.0	45	252	3	6
L'	19	4,000	7.1	58	340	0	0
M'	20	4,000	3.8	32	190	0	0
N'	26	4,000	9.3	41	244	0	0
O'	27	4,000	4.4	22	132	0	0
P'	28	4,000	5.2	22	130	0	0
Q'	29	3,000	3.2	32	190	16	32
R'	31	3,000	6.0	63	386	3	6
S'	Aug. 1	9,000	6.8	26	156	0	0
T'	2	9,000	8.8	34	204	0	0
U'	3	5,500	10.7	46	274	0	0
V'	4	9,000	8.3	35	207	0	0
W'	7	3,000	8.5	68	404	0	0
X'	8	5,000	8.8	44	262	1	2
Y'	12	4,000	5.0	33	194	4	8
Z'	14	4,000	7.1	45	270	2	4
A''	15	4,000	2.2	19	112	2	4
B''	16	4,000	3.0	20	122	2	4

304.35

1913

105

PLANE TABLE POSITIONS.

Probably 420 m.

	Object	Latitude d.m.	Longitude d.p.
✓ G o t	Chimney on cottage	41 58 520m	70 58 1055m
	East gable cottage	41 58 351m	70 58 1029m
	East gable, red roofed cottage	41 57 1809m	70 58 840m
✓ Cup	Cupola on house	41 56 1239m	70 58 210m
	Spire on barn	41 56 1145m	70 58 105m
✓ P u m	Pump house on beach	41 56 1662m	70 55 1200m
✓ Flag	Tall flag staff	41 56 1356m	70 55 1250m
✓ Life	Life saving station, Rocky Point	41 55 1095m	70 52 680m
✓ Nor	Chy. on house, North end long sand cliff	41 54 300m	70 52 930m

2
scale 1:6000

OBJECTS ON HYDROGRAPHIC SHEET NO. 3776

73037

Hydrographic Name	Name of Object.
✓ Wire	Brant Rock wireless pole (T)
✓ Net	Garnet North L.H. (T)
✓ Stan	Standish Monument (T)
✓ Bur	Duxbury L.H. (T) <i>Reason O.B.F 1909</i>
✓ Oct	Chimney on cottage (topographic traverse)
✓ Cup	Cupola on house (topographic traverse)
✓ Pil	Pilgrim Hotel flag staff (T) O.B.French, 1909.
✓ Yel	Yellow cupola (T) O.B.French, 1909.
✓ Pum	Pump house on beach (topographic traverse)
✓ Flag	Tall flag staff (" ")
✓ Rock	Tripod (" ")
✓ Chim	Rocky Point Ho. chimney (T) O.B.French, 1909/
✓ Gab.	East gable house, taken from chart 338.
✓ Shin	Shingle tower, see p 59, Vol. 2, wire drag record.
✓ Life	Tower on life saving station at Rusky Raink Manomet Point
✓ Cone	Red conical cupola (T) O.B.French, 1909.
✓ Stone	Stone tank (T) O.B.French, 1909.
✓ Tan	Tank tower (T) " " "
✓ Nor	Chy. on house, N end sand cliff (topographic traverse)
✓ Hut	Indian Hill Hut (T) O.B.French, 1909.
✓ Hill	Indian Hill (apex of cliff located by topography)
✓ East	East gable yellow house (see p 59, vol. 6.)
✓ On	House on bluff (see p 59, Vol. 6)
✓ Cen	(T) J.H.H., 1916
✓ Brown	" " "
✓ Tile	" " "
✓ Ve	" " "
✓ Sag	" O.B.French, 1909.
✓ Iron	" J.H.H., 1916.
✓ More	Sagamore Tall Chy. (T) OBFrench, 1909.
✓ Canal	(T) J.H.H., 1916.
✓ San	Sandwich church spire, (T) 1848.
✓ Spring	Spring Hill Red Cupola (T) O.B.French, 1909.
✓ Ham	Observatory tower (see p 59, back, Vol 6 and 1 cut from Canal)
✓ Roof	Red Roof-Red Chy. (T) O.B.French, 1909.

(T) - Located by triangulation.

Duplicate

(Original in Vol. 1 of records)

Hydrographic Signals.

Located by sextant and theodolite cuts.

Object	Latitude	d.m.	Longitude	d.p.	
✓ "Shin", shingled tower	41 55	1800m	70 34	201m	Probably 420m
✓ "East", East gable house	41 52	520m	70 32	180m	
✓ "On", small house	41 51	1710m	70 31	1260m	
✓ "Ham", observatory tower	41 44	510m	70 25	285m	

* * * * *

Tide gauge at Portland, Maine.

Copy

Washington, D.C., February 19, 1917.

The Superintendent,
Coast and Geodetic Survey,
Washington, D.C.

Sir:-

I have the honor to inform you that, ~~in so far~~ as I have been able to do so without assistance, I have completed the office work on the records and sheets of the work done by Wire Drag Party No. 2, in Cape Cod Bay during the past season.

All work has been plotted on sheet No. 3776 and the depths have been subdivided and inked. All soundings have been plotted and the depths entered in pencil. These operations have not been verified. The sheets have been returned to the Archives together with Descriptive Report, Table of Statistics etc.

The records have been completed except for the following:

Effective depths (entered by J.H.H.) to be checked on E', F', G', H', N', O' and P' to B' days.

Corection and Drag Depth (entered by J.H.H.) to be checked from P' to B' days.

Tidal reducers for all the work have been entered and checked by the Section of Tides and Currents.

The records have been returned to the Archives.

(copy of ~~this~~ letter ~~is~~ attached to sheet No. 3776.)

Respectfully,

J H Hawley

Assistant, C. & G. Survey.

VEC
Feb. 7, 1917

HYDROGRAPHIC SHEET 3776.

Cape Cod Bay, Mass., additional hydrography by
party of Assistant J. H. Hawley in 1916.

LIBRARY
Place with descriptive report
of hydrographic sheet No. 3776
Drawing Section.

TIDES.

	Portland, Me. Feet.
Mean low water, or plane of reference on staff	8.7
Mean range of tide	8.9

HYDROGRAPHIC SHEET 3776.

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.