

4752

Diag. Cht. No. 6460-1

Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY & A

State: Washington

11-5613

COMMERCE SURVEY  
MAR 8 1928  
Acc. No.

DESCRIPTIVE REPORT.

Hydro Sheet No. 12 4752

LOCALITY:

Commencement Bay, Puget Sound

Tacoma Harbor, Tacoma, Wash.

1928

CHIEF OF PARTY:

G. C. Jones, H & G. E.

4752

Descriptive Report to accompany Hydrographic Sheet

Field #12  
Register # 4752

Tacoma Harbor, Tacoma, Wash.

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Instructions and Limits of Sheet : This survey was executed in accordance with The Director's orders, to the Commanding Officer of the U. S. M. V. NATOMA, dated May 3, 1927. It includes a survey of the inshore waters, out to the ten fathom curve, of the shores on either side of Tacoma Harbor, Tacoma, Washington. Hydrography was executed from Point Defiance south to the City Waterway, on the west shore of the harbor, and from Dash Point southwest to Brown Point thence southeast to the mouth of the Hylebos Waterway on the east shore of the harbor. ✓

Survey Methods : Sounding lines were run normal to the depth curves, with the exception of bilge and keel lines that were run along the docks most used by shipping vessels. Several log booms along the shores on the west side of the harbor interfered with carrying the sounding lines to the shore. A forty (40) foot sounding MLLW was found beyond the eight fathom curve about seven eighths of a mile northwest of signal theo. No other radical changes in the depth curves from those of previous survey were found to exist.

Remarks : Very good control of the sounding speed of the launch was obtained with the use of the reversible propeller with which the launch is equipped.

Respectfully submitted,

Approved and forwarded:

John M. Baker Jr.  
John M. Baker Jr., Aid

G. C. Jones  
G. C. Jones, Commanding.

STATISTICS

HYDROGRAPHIC SHEET

Field #12

Register # 4752

U.S.M.V. NATOMA

G. C. JONES, Cmdg.

Date	Volume	Day	Soundings	Positions	Stat. Miles	Vessel
Jan 28, 1928	1	a	251	102	3.3	Launch 8610
" 7, 1928	1	b	122	39	3.5	Launch 8610
" 17, 1928	1	c	337	109	5.2	Launch 8610
" 18, 1928	1	d	372	124	4.4	Launch 8610
" 19, 1928	2	e	220	52	4.1	Launch 8610
TOTALS			1302	426	20.5	

Soundings in Feet      MLLW

Automatic Tide Guage #H-164

Tide Guage located at Northern Pacific R.R. Dock, Tacoma Harbor.

Plane of Reference      MLLW      2.4 ft. on staff.

Lowest tide observed      1.2 ft. on staff      December 6, 1927.

Highest tide observed      16.2 ft. on staff      December 16, 1927

Copy for Records Section files

March 27, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
volumes of sounding records for

2

HYDROGRAPHIC SHEET

4752

Locality:

COMMENCEMENT BAY, WASHINGTON.

Chief of Party:

Plane of reference is  
ft. on tide staff at L. L. W.

2.4

TACOMA.

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

*G. G. Jones*

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON July 5, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4752

Tacoma Harbor, Wash.

Surveyed in 1928

Instructions dated May 3, 1927 (NATOMA)

Chief of Party, G. C. Jones.

Surveyed by G. C. J.

Protracted and soundings plotted by J. M. Baker, Jr.

Verified by R. C. Johnson.

Inked by R. C. J. and J. G. Ladd.

1. The records conform to the requirements of the General Instructions with the exception that no index was prepared of the cuts taken to locate hydrographic signals.
2. The plan and extent of development satisfy the specific instructions with the exception that more soundings should have been taken in the vicinity of the 40 foot sounding in lat.  $47^{\circ} 17'$  1192 m., longitude  $122^{\circ} 25'$  132 m. This sounding, while surrounded by much deeper depths, falls about 80 meters eastward of a 39 foot sounding shown on H. 1381 (surveyed in 1877). This 39 foot sounding was apparently considered disproved by the later hydrographic surveys H. 2251 and H. 2988 and was therefore omitted from the charts. Since this 39 foot sounding falls outside the 10 fathom curve on the present survey, it is not recommended that it be restored to the charts, but instead the 40 foot sounding should be shown.
3. The usual depth curves could be drawn except where the survey encountered log booms.
4. The usual field plotting was done by the field party.
5. The junctions with the adjacent contemporary sheets are satisfactory. A comparison of the 10 fathom curve with the old surveys shows practically no change.

6. Additional work is required in the vicinity of the 40 foot sounding as mentioned in paragraph 2 above.
7. Attention is called to the fact that no authority could be found in the records for Ⓞ Dol just north of Point Brown. It was shown on the smooth sheet as a topographic signal (now changed to hydrographic) but nothing appears on the topographic sheet to verify this position. There is evidence of some cuts on the boat sheet, and it is quite likely that the signal was located on the boat sheet, but the cuts not recorded. Judging from the name assigned to it by the field party it is very likely a dolphin and should be so charted. (Concurred in by Chiefs of Field Records and Field Work.)
8. Reviewed by A. L. Shalowitz, June, 1928.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

4752

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 12

REGISTER NO. 4752

State Washington

General locality Commencement Bay, Puget Sound

Locality Tacoma Harbor, Tacoma, Wash.

Scale 1:10,000 Date of survey January, 1928

Vessel U. S. M. V. NATOMA

Chief of Party G. C. Jones

Surveyed by G. C. Jones

Protracted by J. M. Baker Jr.

Soundings penciled by J. M. Baker Jr.

Soundings in ~~FOOT~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated May 3, 1927, 192

Remarks: