

5217

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R.S. Patton, Director

State: Virginia

DESCRIPTIVE REPORT

Topographic } Sheet No. 1 5217
Hydrographic }

LOCALITY

York River, Vicinity of Yorktown

19 33

CHIEF OF PARTY

John A. Bond, H. & G. Engineer

5217

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAY 31 1933

REG. NO. 5217

Acc. No. _____

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. 1

REGISTER NO. 5217

State Virginia

General locality York River

Locality Vicinity of Yorktown and Gloucester Pt.

Scale 1:5000 Date of survey May 9 & 27, 1932
May 17-19, 19 33

Vessel Launch MIKAWA Gilbert

Chief of Party John A. Bond H. Odessey

Surveyed by F. H. Gossett ~~XXXXXXXXXXXX~~ H. O.

Protracted by D. E. Sturmer H. W. Murray

Soundings penciled by John A. Bond, H. W. M.

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by _____

Inked by W. H. Bamford H. W. M.

Verified by W. H. B. H. W. M.

Instructions dated May 3, 1933 & April 5, 1932, 19

Remarks: _____

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

DEPARTMENT OF COMMERCE

AND REFER TO NO. 81-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 11, 1933.

SECTION OF FIELD RECORDS

Examination of hydrographic surveys Nos. 5217, a, b, and c, and
topographic survey No. 4712,

Submitted by Lieut. Herman Odessey, Ship GILBERT, from survey of
May, 1932, York River, Va.

It is considered that the instructions of April 5 to the Com-
manding Officer of the GILBERT were not carried out in this survey,
especially in regard to the purposes indicated in the first para-
graph and to the specific instructions in paragraphs 11, 12 and 15.

The survey departs from standard requirements and violates
good practice in some part in its methods and entirely in its sub-
mission. It is inadequate for the purpose of compiling the new
chart requested by the Navy and approved by the Planning Board.
Previous surveys in this vicinity were: topographic, in 1906, and
hydrographic in 1911.

For the above reasons it is considered that the survey should
not be retained in the files of the Chart Division, but should be
returned to the Division of Hydrography and Topography to be re-
tained until such time as it is practicable to complete the survey
of the area. The register numbers of the hydrographic and topogra-
phic sheets may be reserved.

L. O. Gilbert
Chief, Section of Field Records

Approved and forwarded:

H. W. P.
Chief, Division of Charts.

*A new survey has been ordered. See instructions
to the 'Mikawa' dated 'May 2, 1933'*

S. V. Esch

*Refers to 1932 summary
new survey made in 1932
file prepared by S. V.*

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 1

Vicinity of Yorktown, Va.

Project HT-97

INSTRUCTIONS: May 3, 1933 and April 5, 1932.

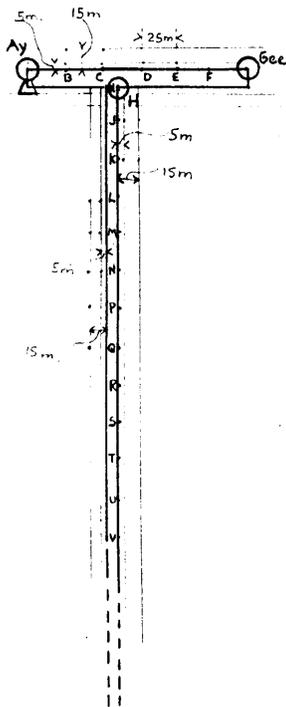
REFERENCE: Memo from Chief, Section of Field Records, April 11, 1933.

NOTE: The work shown on the sheet and on topographic sheet A is intended to replace all work previously submitted as Hyd. Sheets 1A, 1a, 1b, 1c (Office No. 5217) and Topo Sheets 1a, (Office No. 4712).

SURVEY METHODS: The sheet, surveyed on a scale of 1:5000, was executed for the purpose of charting depths in the vicinity of the docks at Yorktown and Gloucester Point. The work is controlled partly by sextant fixes, using the usual survey methods, and partly by measured distance off the faces of the docks.

In locating soundings adjacent to the docks the following methods were used:

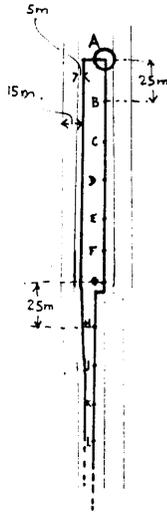
Navy Fuel Dock



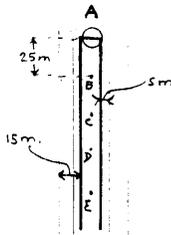
Beginning at station Ay, as located by topography, and extending to station Gee, 25 meter distances were measured along the outer face, by steel tape. Beginning at station H, also located by topography, 25 meter distances were measured along the east face toward the inshore end of dock. These points are shown on the hydrographic sheet and lettered in blue with the distinguishing letter. In the series the letters "I" and "O" are omitted.

Along each side of the dock, opposite these lettered points, soundings were taken from a skiff at distances of five and fifteen meters off the near face of the dock. These distances were accurately measured by line for each sounding.

Navy Mine Dock



Hotel Dock



Beginning at station A at the corner of the dock as located by topography, 25 meter distances were measured by steel tape along the southerly face toward the inshore end of dock. Station H is 25 meters below station G, measured in a direction parallel to the axis of the dock.

Soundings were taken at 5 and 15 meter distances off each face of the dock as described under "Navy Fuel Dock".

Beginning at station A, as located by topography, and extending toward the inshore end of the dock, 25 meter distances were measured along the center line.

Opposite each lettered point soundings were taken at 5 and 15 meter distances off each face of the dock. The distances were measured off the faces of the dock and not off the marked points. In other respects the procedure agrees with that used at the Navy Docks.

OTHER DOCKS AT YORKTOWN & GLOUCESTER PT.

In the majority of cases soundings were taken at measured 5 and 15 meter distances off the faces of each dock. A few exceptions occur where the soundings are taken midway between docks etc.; these are clearly noted in the sounding record. Soundings were also taken alongside each outlying dolphin.

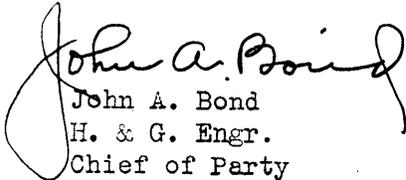
PREVIOUS SURVEYS: No discernable discrepancies appear to exist between the present survey and the data contained on Chart 494.

TIDAL NOTE: A plain staff, connected by levels with B.M.4 was established at Gloucester, Pt. and read at half hourly intervals during the times of sounding. A reading of 4.66 feet on this staff corresponds to Mean Low Water.



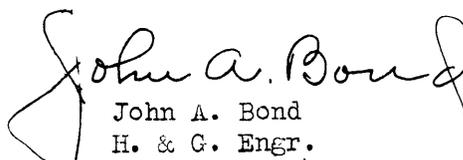
F. R. Gossett
Jr. H. & G. Engr.

Approved:



John A. Bond
H. & G. Engr.
Chief of Party

This is to certify that Hydrographic Sheet No. 1
covering the survey in the vicinity of the wharves at
Yorktown and Gloucester Point has been inspected and
is approved.


John A. Bond
H. & G. Engr.
Chief of Party

Statistics for Hydrographic Sheet 1

Vicinity of Yorktown

York River, Virginia

Date	Vol.	Day	Sta. Mi.	Sdg.	Pos.
May 17	1	a	2.3	157	157
May 18	1	b	3.4	295	191
May 19	1	c	2.8	131	41
		TOTALS	8.5	583	389

January 9, 1932.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
1 volumes of sounding records for

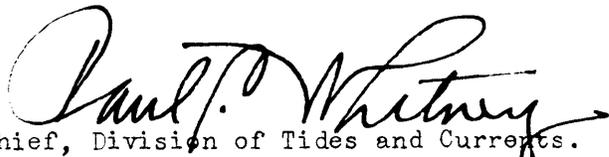
HYDROGRAPHIC SHEET 5217

Locality York River, Virginia

Chief of Party: Herman Odessey in 1932
Plane of reference is mean low water reading
4.2 ft. on tide staff at Gloucester Pt., Virginia.
6.3 ft. below B. M. 4

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 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.


Chief, Division of Tides and Currents.

June 3, 1933

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in

1 volume of sounding records for

HYDROGRAPHIC SHEET

5217

Locality Gloucester Point, York River, Virginia

Chief of Party: John A. Bond in 1933

Plane of reference is mean low water, reading

4.7 ft. on tide staff at Gloucester Pt.

6.4 ft. below B. M. 4

Height of mean high water above plane of reference is 2.5 feet.

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 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.



Chief, Division of Tides and Currents.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *5217 a, c, d*

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	<i>352</i>
Number of positions checked	<i>297</i>
Number of positions revised	<i>2</i>
Number of soundings recorded	<i>527</i>
Number of soundings revised	<i>16</i>
Number of signals erroneously plotted or transferred	<i>NONE</i>

Date: *January 27-1933*

Cartographer: *Warner H. Bamford*

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5217

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	389..
Number of positions checked	327..
Number of positions revised	..1..
Number of soundings recorded	..583.
Number of soundings revised	..16.
Number of signals erroneously plotted or transferred	NONE

Date: June 6 - 1933

Cartographer: Warren H. Bamford

SECTION OF FIELD RECORDS

REPORT ON HYDROGRAPHIC SHEET No. H-5217

JUNE 6, 1933.

Surveyed in - MAY, 1933

CHIEF OF PARTY - JOHN A. BOND

surveyed by - F. R. GOSSETT

PROTRACTED by - D. E. STURMER

SOUNDINGS plotted by - JOHN A. BOND.

verified & inked by - W. H. BAMPFORD.

1./ The sounding records were found to be neat, legible, complete, and to conform to the requirements of the Hydrographic Manual.

2./ The plan, character and extent of development satisfy the General Instructions.

3./ The protracting was found to be well done - and the position numbers are small, neat and legible.

4./ The soundings were very well spaced and were neatly pencilled and of the correct size.

5. There were no shoals developed on this sheet.

6/ It was possible to draw the usual depth curves.

7/ The sheet was clean and the work was legible.

8/ The field plotting was completed to the extent prescribed in the Hydrographic Manual.

9/ There is no junction with adjacent sheets, no other surveys having been made in this area at this time.

Respectfully submitted.

Warren H. Bausford.



June 21, 1933

Report on H-5217

Vol #2, Positions 1 to 40c (blue) only.

Vicinity of Yorktown, York River, Va.

Surveyed in 1932

Chief Party - H. Odsey

Surveyed by H. O.

Soundings portrayed by Harold W. Murray

Soundings provided by H. W. M.

Verified & Inked by H. W. M.

1. Soundings and positions 1 to 40c (blue) have been salvaged from H-5217 (1-10,000 scale) and plotted on H-5217 (1-5,000 scale). This represents a portion of the field work surveyed by H. Odsey in May, 1932. The 1-5,000 sheet represents a survey of the same area by J. A. Bond in May, 1933, one year later. For further information the first Report attached to this binder should be consulted.
2. In portraying these positions, triangulation stations Mine, Quarter, Gaines & Cedar had to be plotted several inches beyond the limits of the sheet (1-5,000). The positions of these stations was thus checked in the office by W. H. Bamford.

Since these stations would involve considerable time in

relocation, great care was exercised in plotting and furthermore, each individual position was compared directly with the former 1-10,000 sheet by the verifier.

3. Of the total of 40 positions, the following have been plotted upon recommendation:

1-12c	19-21c
15-17c	23-26c
13c	27-33c

4. The positions not listed above were not plotted because of disagreement and inability to add additional information to the present 1-5,000 survey.
5. The additional soundings have permitted a partial development of the 30 x 60 foot curves and the addition to the sheet of 1 spar buoy, 2 mooring buoys and one pile cluster. (see plan)
6. Respectfully submitted — Harold W. Murray

SECTION OF FIELD RECORDS
Review of Hydrographic Sheet No. 5217
Vicinity of Yorktown, York River, Virginia.
Surveyed in 1933

HAND LEAD SOUNDINGS

Instructions dated April 5, 1932. (Gilbert)
Supplemental instructions dated May 3, 1933. (Mikawe)

Chief of party - J. A. Bond.
Surveyed by - J. A. Bond, F. R. Gosset.
Protracted by - D. E. Sturmer.
Soundings plotted by - J. A. Bond.
Verified by - W. H. Bamford

1. The records are well kept and conform to the requirements of the Hydrographic Manual except that no bottom characteristics were noted beyond pos. 156b.
2. The plan, character and extent of the work satisfy the specific instructions.
3. There are practically no cross lines on this work but adjacent lines agree well and the work is not in disagreement with the old surveys of 1911 and 1918, H. 3310, H. 3310a and H. 4026 with the exception of a 25 ft. sounding shown on H. 4026 about 520 m. north of Δ Yorktown Mon. This sounding is outside the limits of the work on this sheet but appears to be either erroneous or badly out of position as the 1911 survey, H. 3310, shows no such depth at this point and the survey of 1932 further discredits it.
4. The prescribed amount of field plotting was well done by the field party.
5. The character of the work is excellent and in scope the survey is sufficient for the purpose intended. This review applies only to the 1933 work. (See attached notes re-1932 work).
6. No additional work is required.
7. Reviewed by R. L. Johnston - June 12, 1933.
8. Sheet Inspected by - A. L. Shalowitz.

Notes by A. L. Shalowitz.

1932 Work.

After the 1933 work was verified and inked a study was made of so much of the 1932 work that was additional to the 1933 work, and which was controlled by good fixes. Several lines were thus salvaged, giving a more complete delineation of the 30 foot curve as well as a determination of the 60 foot curve in the vicinity of Yorktown. In addition, the outer dolphin off the ferry slip at Yorktown and two mooring buoys off the Mine Depot Pier, that were not located by the 1933 party were plotted from the 1932 survey. The work retained from the latter survey is in harmony with the 1933 work, and can be distinguished from the 1933 work by the blue position numbers and day

No. 5217.

letters. The sounding records for the work in both years are filed together as one survey executed during two seasons. *

L. O. Colbert
L. O. Colbert (signed)
Chief, Field Records Section.

H. Borden
Chief, Field Work Section.

Examined and approved:

W. P. ...
Chief, Chart Division.

G. Wade
Chief, H. & T. Division.

* note

The descriptive report of for the 1932 work was destroyed with the approval of the Chief, Section of Field Records, it having contained no information of charting value.

A. L. Shalouf.

Future instructions to field parties should specify ample soundings along side of all docks and in slips, to show clearly their depths available.

W. P. ...