

8069

Diag'd. on Diag. Ch. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Bphotographic Shoreline

Field No. CS-283 Office No. T-8069

LOCALITY

State Virginia

General locality James River

Locality Burwell Bay - Lawnes Creek

1941-'42

CHIEF OF PARTY

E.B. Lewey

LIBRARY & ARCHIVES

DATE January 6, 1950

8069

DATA RECORD

T- 8069

Quadrangle (II): YORKTOWN(U.S.G.S.)

Project No. (II): C.S.283

Field Office:

Chief of Party: E. B. Lewey

Compilation Office:

AIR PHOTO. SURVEY PARTY NO.2

Chief of Party: FRED. L. PEACOCK

Div. of Photogrammetry
Office Files

Instructions dated (II III):

March 26, 1942; July 15, 1942

Sept. 30, 1942; Nov. 14, 1942

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 2-6-43

Reported to Nautical Chart Section: Feb. 1943

Reviewed: 11-22-48 Applied to chart No. 529 Date: Nov 1943

Redrafting Completed: 10-26-49

Registered: 12-8-49

Published:

Compilation Scale: 1:10,170

Published Scale:

Scale Factor (III): 0.983284

Geographic Datum (III):

NORTH AMERICAN 1927

Datum Plane (III):

MHW

~~MEAN SEA LEVEL~~

Reference Station (III): EXTRA - 1938, r. 42

Lat.: 37°05'57.963"-1786.8 M Long.: 76°39'25.890"-639.3 M

Adjusted

~~Unadjusted~~

State Plane Coordinates (VI): Virginia, South Zone

X = 2,537,413.76'

Y = 284,166.82'

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
7700 -	11-26-41	10:00 A.M.	1:10,000	0.2' Above M.L.W.
7701	11-26-41	10:00 A.M.	1:10,000	0.2' Above M.L.W.
7702	11-26-41	10:00 A.M.	1:10,000	0.2' Above M.L.W.
7703 -	11-26-41	10:00 A.M.	1:10,000	0.2' Above M.L.W.
7837	11-26-41	1:04 P.M.	1:10,000	1.1' Above M.L.W.
7838	11-26-41	1:04 P.M.	1:10,000	1.1' Above M.L.W.
7839	11-26-41	1:04 P.M.	1:10,000	1.1' Above M.L.W.
7840 -	11-26-41	1:04 P.M.	1:10,000	1.1' Above M.L.W.
7672 -	11-25-41	2:04 P.M.	1:10,000	2.3' Above M.L.W.

Tide from (III): HAMPTON ROADS NAVAL BASE WITH TIME CORRECTION TO WARWICK RIVER, VA.

Mean Range: 2.5 FT.

Spring Range: 2.9 FT.

Camera: (Kind or source)

U.S. COAST & GEODETIC SURVEY NINE LENS; (FOCAL LENGTH 8-1/4")

ALL NEGATIVES ARE ON FILE IN THE WASHINGTON OFFICE

Field Inspection by:

LIEUT. E. B. LEWEY

date: SUMMER & FALL,
1942.

Field Edit by: None

date:

Date of Mean High-Water Line Location (III):

NOVEMBER 26, 1941

Projection ~~and Grids~~ ruled by (III) WASH. OFFICE,
C.H.R.

date: 12-11-42

" ~~checked~~ checked by: WASH. OFFICE, C.H.R.

date: 12-11-42

Control plotted by: LOUISE PAINTER

date: 12-17-42

Control checked by: JAMES SUNDERLAND

date: 12-17-42

Radial Plot by: WALTER E. SCHMIDT

date: 12-23-42

Detailed by: ABRAHAM L. GONCHARSKY
(SHORELINE)

date: 12-28-42
1-23-43

Reviewed in compilation office by:

MICHAEL G. MISULIA

date: 1-28-43 to
2-3-43

Elevations on ~~Field Edit Sheet~~
checked by: ~~Manuscript~~ Note

date:

Summary to Accompany T 8069

T 8069, scale 1:10,000, is one of 40 shoreline surveys in Project CS-283 along the James River, Virginia.

Project CS-283 was originally planned as a planimetric mapping project but was limited to shoreline surveys only after War Mapping Project CS-289, covering practically all the James River, was undertaken.

Topographic Quadrangle T 8311 (Project CS-289) completely covers T 8069. The former was compiled in 1944 from 1:20,000 scale photographs taken in 1942 in contrast with T 8069, compiled in 1942-3 from 1:10,000 scale photographs taken in 1941.

Field Inspection

Field inspection data for the area of T 8069 are contained in the "Report on Field Inspection of Air Photographs, James River, Newport News to Hopewell, Virginia" by Ernest B. Lewey, dated October 12, 1942. Filed in Division of Photogrammetry, General Files.

26. CONTROL:

The control plotted on this map drawing consists of nine U.S.Coast and Geodetic Survey Triangulation Stations. Field inspection stations were substituted for five of these triangulation stations.

The basic control has been indicated on this map drawing with the usual triangulation symbol. The field inspection stations have been indicated with a small square outlined in purple ink on the glossy side of the celluloid.

The following control stations are within the detail limits of this map drawing:

Six U.S. C. & G.S. Triangulation Stations:

- Bacon, 1932, r. 1942
- Jones, F. Ecc., 1932, r. 1942 (F.I.S. "Flow")
- Jones, F. Old Station, 1910, r. 1932, r. 1942
- Extra, 1938, r. 1942. (F.I.S. "BE")
- Ghost, 1938, r. 1942 (F.I.S. "W.M. no. 2")
- Point of Shoals, 1938, r. 1942 (landmark)

The following control stations fall without the detail limits of this map drawing:

Three U.S. C. & G.S. Triangulation Stations:

- Demon, 1938, r. 1942 (F.I.S. "Eda")
- Ulber, 1938, r. 1942 (F.I.S. "Hul")
- Tower, near triangulation station Crawford, Flag-pole,
1938, r. 1942.

27. RADIAL PLOT:

An individual plot was laid for this map drawing by the usual radial line method in conjunction with the principal point traverse method. For a discussion of this method see compilation report for map drawing No. T-8068. Conditions stated therein were similar to those encountered on this map drawing No. T-8069. Common secondary points were transferred from map drawings No. T-8070 and No. T-8068. These points held tangent or 100% to their respective radial lines in the plot.

Filed in Div. of
Photogrammetry - General
Files.

28. DETAILING:

The shoreline and immediate adjacent culture have been detailed on this map drawing in accordance with the Director's letters dated March 26, 1942, July 15, 1942, Sept. 30, 1942,

28. DETAILING: (Continued)

and November 14, 1942, pertaining to this project No. C.S. 283.
Filed in Div. of Photogrammetry - General Office Files.

The following excerpt is from the Director's letter dated July 15, 1942:

"Because of the new 20,000 scale mapping that will now cover the entire area from Richmond to the mouth of the James River, this Bureau will not compile, nor publish complete planimetric maps of the area. Only the shoreline and signals for the control of hydrographic surveys will be compiled on a scale of 1:10,000, and copies of your original drawings, without being smooth drafted, will be registered and used on the hydrographic smooth sheets."

The scales of the photographs and this map drawing were in fair agreement.

All purple, red, or green ink is on the glossy side of this map drawing. Red and purple ink circles indicate strong positions of points. Red circles indicate points established that were common to adjacent map drawings. Green circles indicate weak positions of points.

Positions of minor detail points, hydrographic stations and landmarks for charts were determined by the usual radial line method. The shoreline was transferred from the field inspection photographs to the office photographs, checked, and then detailed on the map drawing. In addition to the immediate shoreline of James River, Lawn Creek and immediate adjacent culture has been detailed on this map drawing.

In a great number of instances hydrographic stations indicated on the field inspection photographs could not be pricked accurately on the office photographs. However, all hydrographic stations were located. The green or purple ink circles that were shown in conjunction with the usual black acid in circle indicate the strength of the positions so determined. Deep shadows, relief, and density of most wooded areas were responsible for the difficulties encountered. A position of one temporary hydrographic station was very weak and was noted on this map drawing. Removed from the map manuscript.

Examination of this map drawing and those adjacent will clearly indicate the weak conditions which are present. See Report Additional Work done in 1944 - Part of this report.

A small wooden bridge has been indicated on this map drawing at Latitude 37°05'09", Longitude 76°41'18". This bridge is of no navigational importance.

28. DETAILING: (Continued)

Bluffs were indicated on this map drawing when designated by the Field Inspection party. Lieutenant E. B. Lewey informed this office that all existing bluffs had been properly indicated on all field inspection photographs.

The images of a few minor detail points were pricked from one photograph to another by the stereoscope.

30. MEAN HIGH WATER LINE:

The mean high water line (firm ground) is indicated by a heavy solid black acid ink line, the center of which should be taken as the true position. A light weight black acid line (marsh area) indicates the limits of navigation and not necessarily the mean high water line. A tide curve was drawn in order to approximate the tide for each photograph.

31. LOW WATER AND SHOAL LINES:

Most of the shoreline, except in areas developed with piers and bulkheads consists of sand and bluffs.

Approximate limits of ^{Shallow} shoal areas have been shown with a thin dashed black acid ink line and labeled.

32. DETAILS OFFSHORE FROM HIGH WATER LINE:

Fish traps have been shown on this map drawing with a thin solid black acid ink line and labeled.

33. WHARVES AND SHORELINE STRUCTURES:

All piers, wharves, landings, bulkheads, and other shoreline structures were shown and labeled where it was thought necessary.

34. LANDMARKS & AIDS TO NAVIGATION:

See Chart Letter 917(49). Copy enclosed.

One landmark indicated by a triangulation symbol and labeled as "Point of Shoals", (ruins of old light-house), appears on this map drawing and has been submitted on form No. 567.

35. HYDROGRAPHIC CONTROL:

^{Fourteen} Fifteen temporary and ^{one} two recoverable hydrographic stations have been located on this map drawing. The temporary stations have been indicated with $1\frac{1}{2}$ mm black acid ink circles. The recoverable stations have been indicated with $2\frac{1}{2}$ mm black acid ink circles. The descriptions of both classes of hydrographic stations have been noted on this map drawing.

Filed in Chart Letter 917(49)

35. HYDROGRAPHIC CONTROL: (Continued)

The recoverable stations are as follows:

~~Gable, Outer, House on inner end of wharf.~~ 1942

~~Chimney, on south gable, large old house on beach.~~ Station made a photo-hydro station (214). Position not of sufficient strength for a Topo. Sta.

Positions and descriptions of the recoverable stations have been submitted on form No. 524.

37. JUNCTIONS: All junctions checked during review.

Map drawing T-8070, North Side, no junction possible at this date.

Map drawing T-8068, South Side, junction in agreement.

Map drawing T-8060, East Side, no junction necessary (water area)

39. RECOMMENDATIONS FOR FUTURE SURVEYS:

This map drawing is believed to be complete in all details of importance for charting, within the accuracy mentioned below. No additional surveys are required.

The probable error of radial points and well defined objects along the shoreline is not greater than 1.0 mm. This amount of probable error was due to insufficient basic control and difficulties encountered in identifying common image points along the shoreline.
See "Additional Work, 1944."

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Yorktown, Va. Quadrangle, U.S.G.S. date 1932. Scale 1:62,500.

Due to the difference in scale between this map drawing and the above mentioned quadrangle, small differences were not apparent.

Pierce Creek shown on quadrangle could not be defined on the office photographs due to heavy foliage.

Mackimmie Wharf (old) shown on this quadrangle is now non-existent; only pilings now remain.

Fergussons Wharf, shown on this quadrangle, is now in ruins; only pilings now remain. Pilings have been indicated and noted as ruins of Fergussons Wharf on this map drawing.

Stiefs Landing, shown on the quadrangle, has not been indicated on this map drawing. Photographs prove this landing to be non-existent.

45. COMPARISON WITH NAUTICAL CHARTS:

Chart No. 529, published September 1940, issued March 25, 1942.
Scale 1:40,000.

Due to scale difference, planimetric details could not be satisfactorily compared. However, details that are obvious and common to Chart No. 529 and this map drawing are in fair agreement, with the exception of a piling area appearing on the chart at approximately latitude $37^{\circ} 07.1'$ and longitude $76^{\circ} 37.9'$. The facts pertaining to this piling area have been brought out underside heading No. 45 of the descriptive report for Map Drawing, Survey No. T-8060.

Respectfully submitted,
January 26, 1943.

Abraham L. Goncharsky
Abraham L. Goncharsky
Senior Engineering Draftsman

Compilation and Descriptive
Report Reviewed by,

Michael G. Misulia
Michael G. Misulia
Mr. Topographic Engineer

Compilation and preparation
of Descriptive Report
supervised by,

Walter E. Schmidt
Walter E. Schmidt,
Asst. Photogrammetric Engineer

Approved & Forwarded,
February 6, 1943.

Fred. L. Peacock
Fred. L. Peacock, Chief
Air Photographic Party No. 2

ADDITIONAL WORK

1944

DATA RECORD

Form T-1

T- 8069

Quadrangle (II): Yorktown(U.S.G.S.)

Project No. (II): C.S. 283

Field Office:
Air Photographic Party No. 2
Baltimore, Md.

Chief of Party: ~~Fred. L. Peacock~~ ^{D.E. Sturmer}

Compilation Office:
Air Photographic Party No. 2
Baltimore, Md.
Instructions dated (II III):
March 26, 1942; July 15, 1942;
Sept. 30, 1942; Nov. 14, 1942

Chief of Party: Fred. L. Peacock

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office;

- Reported to Nautical Chart Section;

Reviewed;

Applied to chart No.

Date;

Redrafting Completed;

Registered;

Published;

Compilation Scale: 1:10,170

Published Scale;

Scale Factor (III): 0.983284

Geographic Datum (III):

Datum Plane (III): ^{MHW} ~~Mean Sea Level~~

North American 1927

Reference Station (III): EXTRA, 1938, r.1942

Lat.: 37° 05' 57.963"(1786.8m) Long.: 76° 39' 25.890"(639.3m) ^{Adjusted}
~~Unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
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Same as original data sheet Form T-1

Tide from (III); Hampton Roads Naval Base, with Time correction to
Warwick River, Va.

Mean Range; 2.5 ft.

Spring Range; 2.9 ft.

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens (focal
length $8\frac{1}{4}$ "). All negatives are on file in the Washington Office.

(Additional)

Field inspection by: Lt. Dale E. Sturmer

date: March 1944

Field Edit by:

date:

Date of Mean High-Water Line Location (III); November 26, 1941

Projection and Grids ruled by (III)

date:

" " " checked by:

date:

Control plotted by:

date:

Control checked by:

date:

Radial Plot by:

date:

Detailed by: (Additional) Margaret F. Walworth

date: 6/5/44

Reviewed in compilation office by: (Additional)
Joseph Steinberg

date: 6/5/44

Elevations on Field Edit Sheet
checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles);

Shoreline (More than 200 meters to opposite shore);

Shoreline (Less than 200 meters to opposite shore);

additional
Number of/Recoverable Topographic Stations established: 3

additional
Number of/Temporary Hydrographic Stations located by radial plot: 58

Leveling (to control contours) - miles;

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname

and initials (not initials only).

Remarks:

ADDITIONAL WORK - - 1944

In accordance with the original instructions for Project C.S. 283 and various supplemental instructions, the field inspection at the lower part of the James River did not at first include complete field inspection of tributary streams. The field inspection of the main river and the mouths of all tributary streams was first completed to Richmond, Va. The completion of the field inspection of tributaries was then carried on from the upper river toward the lower river. The field inspection of tributary streams was completed in the spring of 1944.

In order to assure shore line and hydrographic information in advance of the needs of operating hydrographic parties working in the main river, Map Drawings for the areas of 10 surveys were submitted in advance of completion with respect to tributary streams. Survey No. T-8069 is one of these.

The High-Water Line and marsh line (limit of navigation line) and adjacent planimetry of the portion of James River, falling within the limits of this Map Drawing and its tributaries to the head of navigation, in the area, was originally compiled between December 1942 and January 1943.

Since that time the Compilation Office has been furnished the identification of ~~two~~^{three} additional recoverable topographic stations and fifty-eight additional temporary hydrographic stations. These were identified on 1:10,000 field photographs by numbers and their descriptions were listed in sketch book Form #274 (Vol. 1), by corresponding numbers. These stations were transferred to the 1:10,000 office photographs and radially plotted on the Map Drawing. The descriptions of both classes of hydrographic stations have been noted on the overlay sheet for this Map Drawing. See review report.

Form 524 is being submitted for the ~~two~~^{three} additional

recoverable topographic stations, namely:

WEST GABLE, ~~UNPAINTED SIDE~~, 1944
WEST GABLE, ~~WHITE HOUSE~~, 1944
Chimney, 1944

Additional data on the small bridge in the vicinity of Latitude $37^{\circ} 05' 09''$ and Longitude $76^{\circ} 41' 18''$, furnished by the Field Inspection Unit, has been included.

This Map Drawing is now believed to be complete in all details of importance for charting, and no other surveys are considered necessary.

Respectfully submitted:
June 5, 1944

Margaret F. Walworth
Margaret F. Walworth
Asst. Photogrammetric Aid

Additional work reviewed
and supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 6, 1944

Fred. L. Peacock
Fred. L. Peacock
Chief, Air Photographic Party No. 2

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Washington Office

Nov. 8 1949

TO BE CHARTED
TO BE ~~DELETED~~

STRIKE OUT ONE

I recommend that the following objects which have ~~been~~ charted on ~~(detected from)~~ the charts indicated.

The positions given have been checked after listing by

been inspected from seaward to determine their value as landmarks be

C Theurer

S. V. Griffith *Chief of Party.*

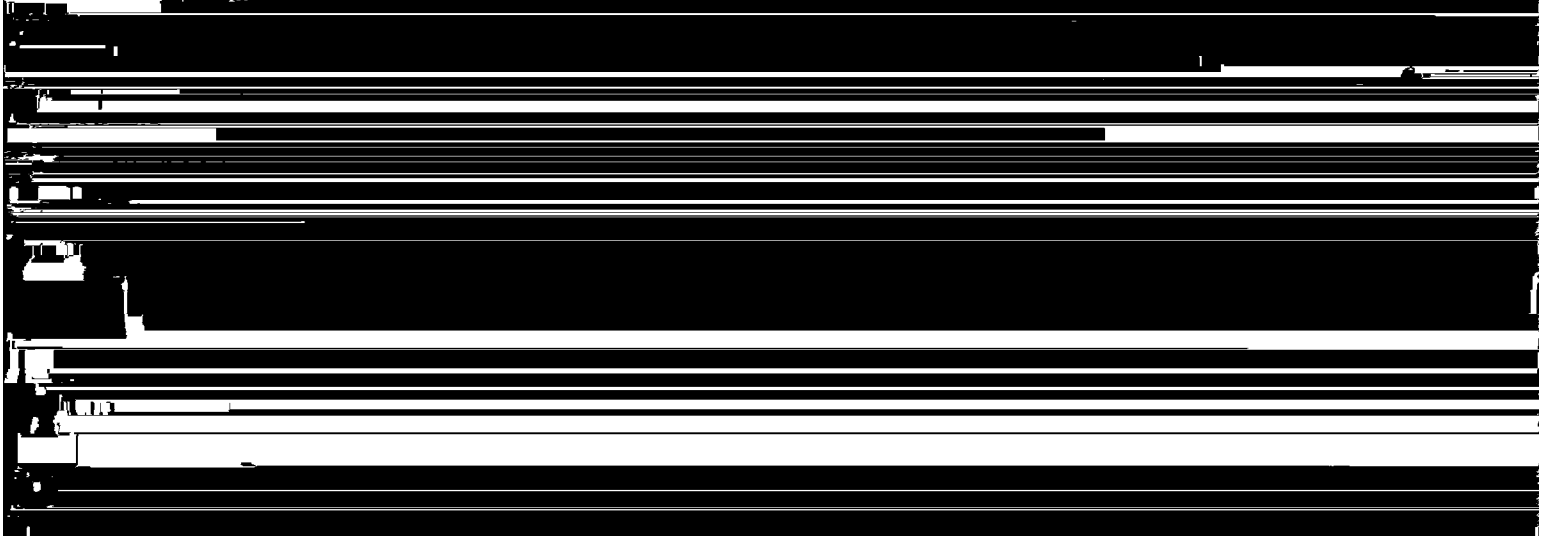
[illegible]

Descriptions of Photo-Hydro Stations
T-8069

No.

- 141(s) South tip of grass island, north of bridge.
- 142(s) Northeast tip of tall grass near end of log.
- 143(s) East tip of grass on southwest side of entrance to break in shoreline.
- 144(s) Prominent tip of grass on east side of rounding point. Submerged log at tip.
- 145(s) Southeast tip of grass at break in shoreline.
- 146(s) Northwest tip of grass at break in shoreline.
- 147(s) Southeast tip of grass in break in shoreline.
- 148(s) Southwest tip of grass in break in shoreline.
- 149(s) Southeast tip of grass in break in shoreline.
- 150(s) Center of break about 5 meters wide.
- 151(s) Southeast tip of grass.
- 152(s) South tip of grass at small creek.
- 153(s) Southwest tip of grass at very small mud creek.
- 154(s) Southwest tip of grass. Submerged log 1 meter from end.
- 155(s) Northwest tip of grass at break inshore from old fish trap.
- 156(s) Southeast tip of grass. "Posted" sign on southeast tip.
- 157(s) Southeast tip of grass at break in shoreline, southwest of dead tree in water.
- 158(s) Dead tree, fallen in water, at edge of marsh.
- 159(s) Northeast tip of grass at break in shoreline. "Posted" sign on opposite side of break.
- 160(s) Southeast tip of grass at small break in shoreline.
- 161(s) Northeast tip of grass at break in shoreline southwest of old fish trap.
- 162(s) Northeast tip of grass, northeast of board fence.
- 163(s) Northwest tip of grass at break opposite logs and piling at marshline.

No.

- 164(s) Northeast tip of grass at break in shoreline.
 - 165(s) Northeast tip of grass at break in shoreline, 100 meters southwest of and across stream from old fish trap.
 - 166(s) Southeast tip of grass at break in shoreline at old fish trap.
 - 167(s) Northeast tip of grass at small break in shoreline.
 - 168(s) Center of ditch at marshline. Ditch is west of cattails.
 - 169(s) Southeast tip of grass at break opposite rounding point.
 - 170(s) Westerly point of grass at wide break.
 - 171(s) Northeast tip of grass at break in shoreline.
 - 172(s) Southeast tip of grass at ditch.
 - 173(s) Southeast tip of grass at break on rounding point. "Posted" sign opposite signal site.
 - 174(s) Northwest tip of grass at break in marshline.
 - 175(s) South tip of grass at "posted" sign.
 - 176(s) Northeast tip of grass at break in shoreline opposite angle irons on end on other side of stream.
 - 177(s) Northeast tip of grass at break in shoreline between first and second angle irons.
 - 178(s) Center of break in grassline on outside of bend.
 - 179(s) West tip of brush on east side of stream.
 - 180(s) Center of break in grass, 40 meters east of stakes in water.
 - 181(s) Northwest tip of grass at entrance to small creek in marsh.
- 

No.

- 188(s) Northwest tip of grass. Dead pine is across stream from signal site.
- 189(s) Northeast tip of grass. "Posted" sign on opposite side of break.
- 190(s) Center of break in grass. Approximately 100 meters south of brush. Pricked 2 meters east of shoreline on either side.
- 191(s) Northwest tip of grass at north end of brush patch.
- 192(s) Northeast tip of grass at break in grass, south of cedars.
- 193(s) Center of southwest end of grass at break in shoreline.
- 206(s) North tip of grass at south side of entrance to bight.
- 207(s) Southeast tip of grass across stream from small creek.
- 208(s) Stump with weeds on top.
- 209(s) West tip of grass on east side of bight.
- 210(s) Eight foot stump on grassy point.
- 205 Post in front of small artesian well on beach.
- 206 Large double pine on point on bluff
- 207 Inshore one of the higher pilings constituting the remains of Ferguson's Wharf. This pile has a tide staff on it.
- 208 Outer end of southerly of two landings
- 209 Chimney on north gable of brick house, back of two cedars.
- 211 Outer of a row of white washed posts on beach.
- 213 Outer gable of old shack at edge of bluff back of large pines on water line.
- 214 Chimney on south gable of large, old house on beach.
- 215 Top of large cedar in center of a group of small pines on bluff just south of a small point.
- 216 Blaze on lone pine on W.L. in front of small marsh.
- 217 Dark bush at W.L. just north of a slight clearing on top of Marked by cloth tied to limb and by blaze on tree in back of bush.

No.

- 246 Blaze on prominent, bushy top pine on bluff. A deciduous tree of about the same size directly behind the pine.
- 247 Blaze on tall pine on edge of bluff.
- 248 Blaze on double cypress on beach.

GEOGRAPHIC NAMES

Listed below are the disputed names that have been shown on this map drawing:

~~Fergusons Wharf~~ (~~Ferguson's Wharf~~)
(~~Fergussons Wharf~~)

*omit: sufficiently covered
by village of Rushmere*

If used at all, approved form is Fergusons

~~Lawns Creek~~

(~~Lawnes Creek~~)

= recent USNBM decision

DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscript T-8069

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28 Detailing

The outline of the shallow area in the Northeast corner of the map manuscript was added to complete the junction with T-8060 and T-8070.

37 Topographic and Photo-Hydro Stations

The topographic station, Chimney, 1944, was added to the map manuscript. It had been shown in the extended limits of T-8070.

Names of topographic stations were changed to a short, descriptive term.

A list of descriptions of photo-hydro stations was prepared and made a part of the descriptive report.

38 State Grids.

The state grid, Virginia, South Zone, was plotted on the map manuscript at a 5000 foot interval.

40 Geographic Names

Names were added to the map manuscript from the approved list submitted by the Geographic Names Section.

43 Comparison with Contemporary Hydrographic Surveys

H-7174 1:10,000 1947

No discrepancies were noted between the shoreline on the map manuscript and the positions of soundings on the hydrographic surveys.

44 Comparison with Existing Surveys

* T 8311 1:20,000 1944

U.S.G.S. Smithfield Quadrangle 1:62,500 1907 Repr. 1944

T-1289 1:20,000 1873

H-3045 1:20,000 1910

Common features on all previous surveys are superseded by the map manuscript in common areas *for nautical charting purposes.*

* T 8311 is a more recent survey. Corrections were not brought forward to 8069

45 Comparison with Nautical Charts

Chart No. 529 1:40,000 1944 Corr. 1947

Areas with scattered piles shown on the map manuscript at Lat.

37° 05.0', Long. 76° 39.8' and Lat 37° 04.0', Long. 76° 40.0' are not shown on the chart.

A small pier at Lat 37° 04.6', Long 76° 40.0 is not shown on the chart.

51 Application to Nautical Charts

The map manuscript has been applied to the nautical chart.

Reviewed by:

Under the direction of:

Charles Kreuer
C. Kreuer

A. V. Griffith
Chief, Review Section E.N.M.
Div. of Photogrammetry

Approved by:

B. J. Jones 12/49
Tech. Asst. to the Chief,
Division of Photogrammetry

H. Edmonstone
Chief, Nautical Chart Branch,
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

W. M. Scaife
Chief, Division of Coastal Surveys
142