

8061

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 Photographic (Shoreline)

Field No. CS-283 Office No. T-8061

LOCALITY

State Virginia

General locality James River

Locality Pagan River - Burwell Bay

1941-'42

CHIEF OF PARTY

L.W. Swanson

LIBRARY & ARCHIVES

DATE December 21, 1949

B-1870-1 (1)

8061

DATA RECORD

T- 8061

Quadrangle (II): Yorktown, Va. (U.S.G.S.) Project No. (II): GS 283

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

Chief of Party: L.W. Swanson

Compilation Office:
Air Photographic Party No. 2
Baltimore, Maryland

Chief of Party: Fred. L. Peacock

Instructions dated (II III):
March 26, 1942; July 15, 1942
Sept. 30, 1942; Nov. 14, 1942

Div. of Photogrammetry
Office Files
Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 3-25-43

Reported to Nautical Chart Section: Mar 1943

Reviewed: 11-2-48 Applied to chart No. 529 Date: Nov. 1942

Redrafting Completed: 10-17-49

Registered: 12-8-49

Published:

Compilation Scale: 1:10,215

Published Scale:

Scale Factor (III): 0.978952

Geographic Datum (III): N.A. 1927

Datum Plane (III): MHW
~~Mean Sea Level~~

Reference Station (III):

Cedar (V.F.C.) 1938, r. 1942

Lat.: 37° 01' 41.346"

Long.: 76° 35' 10.272"

Adjusted

1274.6 (575.0) Meters

253.9 (1229.1) Meters ~~Unadjusted~~

State Plane Coordinates (VI): Virginia, South Zone

X = 2, 558, 644.10'

Y = 258, 631.63'

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7705	11/26/41	10:00 A.M.	1:10,000	0.2' above M.L.W.
7706	11/26/41	10:00 A.M.	1:10,000	0.2' above M.L.W.
7835	11/26/41	1:04 P.M.	1:10,000	1.1' above M.L.W.
7836	11/26/41	1:04 P.M.	1:10,000	1.1' above M.L.W.

Tide from (III): Hampton Roads Naval Base, Va. 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

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) Washington Office date: 12-8-42
C.H.R.

" " " checked by: Wash. Office-H.R.B. date: 12-8-42

Control plotted by: W. E. Schmidt date: 12 - 42

Control checked by: L. Painter date: 12 - 42

Radial Plot by: Walter E. Schmidt date: 12 - 42

Detailed by: Elinore Herzog (Shoreline-rough draft) date: 12-42

Partial Revision by: James E. Sunderland

Revision completed by: Abraham L. Goncharsky

2-18-43

Reviewed in compilation office by:

date: 1/43

Partial Review by: James E. Sunderland

Review completed by: Harry R. Rudolph

3/43

Elevations on ~~Field Edit Sheet~~

checked by: None

date:

Summary to Accompany T 8061

T 8061, 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 8312 (Project CS-289) completely covers T 8061. The former was compiled in 1944 from 1:20,000 scale photographs taken in 1942 in contrast with T 8061, compiled in 1942-3 from 1:10,000 scale photographs taken in 1941.

Field Inspection

Field inspection data for the area of T 8061 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 5 U.S. Coast & Geodetic Survey triangulation stations; 3 U.S.E. triangulation stations, and 4 V.C.F. triangulation stations. Field inspection stations were substituted for 2 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 list of control stations are within the detail limits of this map drawing:

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

- "The Rocks", barn, N. gable, 1938, r. 1942
- Upton Farm, barn, Northeast gable, 1938, r. 1942
- House, south of Blunt Point, chimney, 1938, r. 1942
- White Shoals Light House, 1909, r. 1927, r. 1932, r. 1942.

3 U.S.E. Triangulation Stations:

- Day (U.S.E.) 1938, r. 1942 (F.l.S. "Yad")
- Pagan (U.S.E.) 1938, r. 1942
- Good (U.S.E.) 1938, r. 1942

3 V.C.F. Triangulation Stations:

- Day (V.F.C.) 1938, r. 1942
- Rainbow (V.F.C.) 1938, r. 1942
- Cedar (V.F.C.) 1938, r. 1942

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

1 U.S. C. & G.S. Triangulation Station:

- Smithfield, 1932, r. 1942

1 V.F.C. Triangulation Station:

- Godwin (V.F.C.) 1938, r. 1942 (F.l.S. "Gras")

See Review Report for 2 additional stations.

27. RADIAL PLOT:

An individual plot was laid for this map drawing by the radial line method in conjunction with the principal point traverse method. For a discussion of this method see the compilation report for map drawing No. T-8068. Conditions stated therein were similar to those encountered on this map drawing - No. T-8061. Common secondary points (double purple or green ink circles) were transferred from adjoining map drawings. Centers of photographs previously located on adjoining map drawings were transferred to this map drawing.

Filed in Div.
of Photogrammetry
General
Files

28. DETAILING:

The shoreline and immediate adjacent culture has been detailed on this map drawing in accordance with the Director's letters dated March 26, 1942, July 15, 1942, September 30, 1942, and Nov. 14, 1942, pertaining to this Project No. CS-283. Filed in Div. of Photogrammetry-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 number of photographs was sufficient for detailing.

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

Positions of minor detail points, hydrographic and topographic stations, and landmarks for charts were determined by the usual radial line method. All purple and green ink is on the glossy side of this map drawing. Purple ink circles indicate strong positions of points. Green ink circles indicate points whose positions are considered relatively weak.

The double red circle on this map drawing indicates the position of the iso-center of photograph No. 7836.

All shoreline with the exception of that in the vicinity of Goodwin Point, was transferred from the field inspection photographs to the office photographs, refined, checked, and then detailed on the map drawing. The shoreline in the vicinity of Goodwin Point was detailed directly from the field inspection photographs.

A small wooden bridge on concrete piling has been detailed on this map drawing in the vicinity of Lat. $37^{\circ} 00' 52.6''$ and Long. $76^{\circ} 36' 41''$. This bridge is of no navigational importance.
Bridge data furnished in "Additional Work, 1944"

Bluffs were indicated on this map drawing by the standard symbol where noted by the field inspection party. Lieut. E. B. Lewey informed this office that the location and extent of all bluffs had been indicated on the field inspection photographs and recommended that the field inspection data be accepted as complete in this report.

Four water tanks were identified on the field inspection photographs in the vicinity of Mogarts Creek. One of these could not be properly identified on a sufficient number of office photographs in order to establish its position by air photo compilation.

28. DETAILING: (cont'd)

The shoreline in the vicinity of Blunt Point which falls within the detail limits of this map drawing has been omitted. It has been detailed in the extended detail limits of map drawing No. T-8060.

To be added to this survey by the smooth draftsman.

30. MEAN HIGH WATER LINE:

The mean high water line (firm ground) has been indicated by a heavy solid black acid ink line, the center of which should be taken as the true position. A lightweight black acid ink line (marsh area) indicates the limits of navigation and not necessarily the mean high water line. The shoreline consists of sand, dirt bluffs and marsh.

31. LOW WATER AND SHOAL LINES:

Approximate limits of ^{shallow} shoal areas have been indicated with a lightweight black acid ink line and labeled. This is for the use of the hydrographer only.

32. DETAILS OFFSHORE FROM HIGH WATER LINE:

Fish traps have been shown on this map drawing with a lightweight black acid ink line and labeled. Those traps whose positions are approximate have been properly noted.

33. WHARVES AND SHORELINE STRUCTURES:

All wharves and shoreline structures have been shown on this map drawing when their images could be properly identified on the photographs. Those in question have been properly noted for investigation by the hydrographic party.

34. LANDMARKS AND AIDS TO NAVIGATION:

See Chart Letter 917(49) Copy enclosed.

The four following landmarks have been indicated on this map drawing with a $2\frac{1}{2}$ mm black acid ink circle unless otherwise indicated below:

Gable, westerly of 2 story house on point.

Light, Briggs Wharf (position to be revised on Chart No. 529), 1942

Light, Gap Shoal (position to be revised on Chart No. 529), 1942

Gable, N. E., Upton Farm barn (shown with triangulation symbol)

Their positions have been submitted on form No. 567.

The beacon, Jones Creek Light No. 1, should be deleted from Chart No. 529. Form No. 567 has been submitted.

35. HYDROGRAPHIC CONTROL:

Ten temporary hydrographic and five recoverable topographic stations have been radially located on this map drawing and have been indicated with $1\frac{1}{2}$ mm and $2\frac{1}{2}$ mm black acid ink circles respectively. The descriptions of both classes of stations have been noted on

35. HYDROGRAPHIC CONTROL: (cont'd)

the overlay sheet for this map drawing.

The positions and descriptions of the recoverable topographic stations have been submitted on Form No. 524.

The recoverable topographic stations are as follows:

~~West~~ Gable, ~~westerly, of 2 story house on point~~ (also landmark), 1942
Light, Briggs Wharf (also Landmark), 1942
Light, Gap Shoal (also landmark), 1942
Gable, ~~offshore, white house on bluff, highest house on bluff~~, 1942
Landing, ~~outer end of~~, 1942

37. JUNCTIONS:

Map drawing No. T-8060, north side, junction in agreement.
Map drawing No. T-8062, south side, junction in agreement, except for a ditch which has been detailed on map drawing No. T-8061. Map drawing No. T-8062 should be corrected accordingly. This correction has been indicated on map drawing No. T-8061 by a note. Fixed during review.
Map drawing No. T-8056, east side, junction in agreement.
Map drawing No. T-8068, west side, junction in agreement.

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.

It is believed that the probable error of radial points and well-defined objects along the shoreline is not greater than 1.0mm and the error of inland radial points and details of importance is not greater than 1.5mm.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

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

Planimetric details common to both were in fair agreement except Rocks Wharf (old). The wharf is now non-existent. Small planimetric differences could not be ascertained on account of difference in scale.

45. COMPARISON WITH NAUTICAL CHARTS:

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

Planimetric details common to both were in fair agreement except at Lat. 37° 00' 25" and Long. 76° 34' 35" the chart shows the remains of a wharf which the photographs do not reveal and which was not included in the field inspection data. ✓

45. COMPARISON WITH NAUTICAL CHARTS: (cont'd)

The following excerpt is from the U. S. Coast Pilot, year of 1937.

"The remains of the old wharf South of Day Point leading to Briggs Wharf Light are no longer visible above water."

Due to scale, small planimetric differences could not be ascertained.

Compiled by Eleanor Herzog
December, 1942

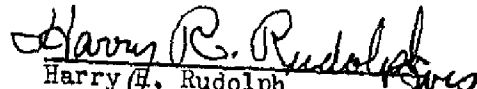
Partial Revision by,


James E. Sunderland
Senior Photogrammetric Aid

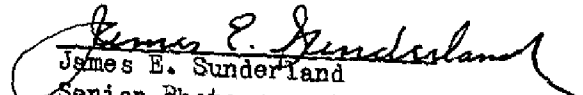
Revision completed by,


Abraham L. Goncharsky
Senior Engineering Draftsman

Compilation & Descriptive
Report Reviewed by,


Harry H. Rudolph
Senior Photogrammetric Aid

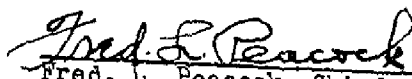
and


James E. Sunderland
Senior Photogrammetric Aid

Compilation & Preparation of
Descriptive Report Supervised
by,


Walter E. Schmidt
Asst. Photogrammetric Eng.

Approved & Forwarded,
March 24, 1943


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

**TOX BE EXCHARTED
TO BE DELETED**

Baltimore, Maryland

The positions given have been checked after listing by

Fred L. Peacock

Chief of Party.

Scaled by: Abraham L. Goncharsky

Checked by:

Harry R. Rudolph

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

STRIKE OUT ONE

**TO BE CHARTED
~~TO BE CHARTERED~~**

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland

March 24th 19~~42~~ 43

RECORDED INDEXED

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by _____

Fred L. Peacock *Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

November 8 1949

The positions given have been checked after listing by C. Theurer

[illegible]

STRIKE OUT ONE

Washington Office

November 8, 1949

The positions given have been checked after listing by

C. Theurer

S. V Griffith
Chief of Party.

[illegible]

LIST OF GEOGRAPHIC NAMES

Listed below are the undisputed names that have been shown on this map drawing, unless otherwise noted:

- ~~Blunt Point (not indicated)~~
- Bob Shoal (not detailed)
- Burwell Bay
- Goodwin Point
- James River
- ~~Oyster Rock (not indicated)~~
- White Shoal (not detailed)
- Williams Creek

LIST OF GEOGRAPHIC NAMES

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

~~Morgarts Creek~~
• Pagan River (U.S.B.G.N.)
~~Day Point~~
• Blunt Point

• Tormentor Creek (pending U.S.B.G.N. action)
~~Pagan Creek~~
• Days Point (U.S.B.G.N.)

Names preceded by -
are approved. 11/1/48
L. Heck
No changes 12-8-49

Descriptions of Photo-Hydro Stations
T-8061

No.

- 42 West gable white house on bluff. House has two brick chimneys and is to NW of another white house.
- 43 Center of small white house at foot of bluff. In front of low white house on bluff and in front of a group of pines on bluff.
- 45 Southeasterly of 2 green boxes on sheet shooting range at mouth of stream.
- 46 Center of lone pine on beach in front of country club.
- 47 Small deciduous tree on point at W.L. Two taller pines in back and prominent, dirt bluff to SE.
- 48 Trunk of dead tree at waters edge. Shows white and is to SE of a group of groins.

- No.
- 180 Trunk of large, dead cedar on edge of bluff.
- 224 Stake with cloth between 2 small bushes, close to edge of marsh.
- 225 Small bush at WL on rounding point in front of a small sand patch. Marked by cloth.
- 226 Blaze on deciduous tree in group of pines at South end of steep, dirt bluff.
- 227- Blaze on prominent pine on bluff on point just across a ravine from Upton farmhouse.
- 228 Offshore gable in center of offshore side of large, white house with red roof. This house is nearer edge of bluff than other houses in vicinity.
- 230 Prominent bushy tree on bluff just North of a rounding point. Tree has leaning top and is the center one of three prominent trees on bluff in front of a cultivated field.
- 239 Blaze on pine tree in opening on bluff at NE corner of westerly of two cultivated fields. Tree has an old blaze.
- 519 NE tip of grass on point at entrance to Williams Creek.
- 520 Tip of rounding projection of marsh into stream.
- 521 East tip of grass at entrance to small creek, south side.
- 522 Southwest tip of grass at entrance to small stream.
- 523 Northwest tip of grass at entrance to small creek in marsh on North side.
- 524 North tip of marsh of easterly fork at entrance of 2 streams. Tip of marsh is between 2 streams.
- 525 Northeast tip of marsh at entrance to small stream.
- 526 Westerly of 2 cedar trees, cone shaped, 3 meters from waters edge in marsh.
- 527 Tall, dead trunk of pine tree, 3 meters from waters edge and 30 meters southwest of fast land.
- 528 Southerly and smaller of 2 cedar trees, 2 meters from the waters edge.
- 529 S. tip of marsh at entrance to stream.
- 530 Southwest tip of marsh at entrance to ditch in marsh.

No.

- 531 Northeast tip of grass and marsh at entrance to small stream in marsh.
- 532 Southeast tip of marsh at entrance to small stream.
- 533 Northwest tip of marsh at entrance to small stream.
- 534 Center of very small stream at upstream end of inside turn.
- 535 Southeast tip of marsh at entrance to small stream.
- 536 Northwest tip of grass at easterly of 2 small stream entrances.

MAP DRAWING FOR SURVEY NO. T-8061

ADDITIONAL

WORK

1944

DATA RECORD

T-8061

Quadrangle (II);
Yorktown, Va. (U.S.G.S.)

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

Field Office:

Air Photographic Party No. 2
Baltimore, Md.

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

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:

1:10,215

Published Scale:

Scale Factor (III):

0.978952

Geographic Datum (III):

N. A. 1927

Datum Plane (III):

Mean Sea Level

Reference Station (III):

CEDAR (V.C.F.) 1938 r. 1942

Lat.:

37° 01' 41.346"

Long.:

76° 35' 10.272"

Adjusted

~~Unadjusted~~

1274.6 (575.0) Meters

253.9 (1229.1) Meters

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>
---------------	-------------	-------------	--------------	----------------------

Same as original data sheet Form T-1

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

Mean Range; 2.5'

Spring Range; 2.9'

Camera: (Kind or source)

U.S. Coast and Geodetic Survey nine lens; (focal length $8\frac{1}{4}$ ")

All negatives are on file in the Washington Office

Field Inspection by: (Additional)

date;

Lt. Dale E. Sturmer

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)

date;

James L. Harris

5/29/44

Reviewed in compilation office by: (Additional)

date;

J. Edward Deal Jr.

5/31/44

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; 4

additional

Number of/Temporary Hydrographic Stations located by radial plot; 27

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. 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 ten surveys were submitted in advance of completion with respect to tributary streams. Survey No. T-8061 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 March 1943.

Since that time the Compilation Office has been furnished the identification of four additional recoverable topographic stations and twenty-seven additional temporary hydrographic stations. These were identified on 1:10,000 field photographs by numbers and their descriptions were listed in two sketch books, Form 274, (Vol. 1 & Vol. 2) by corresponding numbers. These stations were transferred to the 1:10,000 office photographs and radially plotted on the Map Drawing.

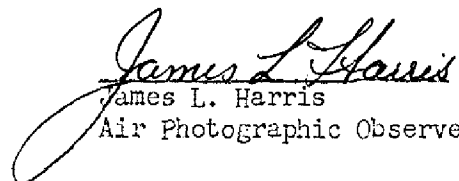
Form 524 is being submitted for the four additional recoverable topographic stations, namely:

~~GENERAL BRIDGE~~, 1944
EAST GABLE, ~~NEW BRIDGE~~, 1944
WEST GABLE ~~NEW BRIDGE~~, 1944
CHIMNEY ~~NEW BRIDGE~~, 1944.

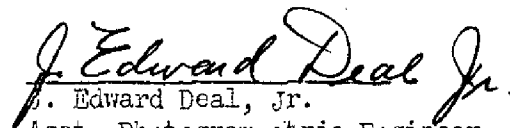
Minor revision of detail was made after the radial plotting of additional detail points showed up a discrepancy at one small area.

Additional data on the small bridge in the vicinity of Lat. $37^{\circ} 00' 52.6''$ and Long. $76^{\circ} 36' 41''$, furnished by the Field Inspection Unit, has been included.

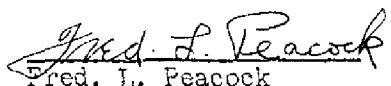
Respectfully submitted:
May 31, 1944


James L. Harris
Air Photographic Observer

Additional work reviewed
and supervised by:


J. Edward Deal, Jr.
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 2, 1944


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

DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscript T-8061

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

26 Control

The following triangulation stations were added to the map manuscript, during review:

Stone (VFC), 1938
Rock, 1938

28 Detailing

The area in the NE corner of the map manuscript previously shown on T-8060 will be transferred to T-8061 during smooth drafting. The detail will be transferred photographically when blue lines are requested. Done

34 Landmarks and Aids to Navigation

See Chart Letter 917 (49). Copy enclosed.

The original forms 567 for the landmarks and aids to navigation on this map manuscript were forwarded to the Nautical Chart Section. Copies were prepared and made a part of this report.

37 Topographic and Photo-Hydro Stations

The following topographic stations fall in the area that was previously shown on T-8060:

Center of House, 1942

Lookout House, 1942

Names of topographic stations were changed to a short, descriptive term on the map manuscript and the form 524 cards.

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 5,000 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-7162	1:10,000	1944-47
H-6928	1:10,000	1943-48

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 8312	1:20,000	1944
USGS Yorktown Quadrangle 1:62,500 1907 Reprint, 1944		
T- 497	1:20,000	1853
T-1266	1:20,000	1871-3
T-3045a	1:20,000	1910

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

* T 8312 is a later survey. Corrections were not brought forward to T 8061

45 Comparison with Nautical Charts

Chart No. 529 1:40,000 1944 Corrected 1947
Pier shown at Lat. 37°00.3', Long. 76°36.0' on the map manuscript is not shown on the chart.
Jones Creek Light No. 1 has been replaced since the time of the field inspection.

51 Application to Nautical Charts

The map manuscript has been applied to the nautical Chart.

Reviewed by:

Under the direction of:

Charles Theurer
C. Theurer 11-2-48

A. V. Griffith
Chief, Revision Section L. H. M.
Div. of Photogrammetry

Approved by:

B. G. Jones 12/49
Technical Asst. to Chief,
Division of Photogrammetry

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

O. S. Reading
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys *W. M.*