Diag. Cht. No. 78-4.

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric

Field No. **Ph-118** Office No. **T-11227**

LOCALITY

State **Virginia**

General locality Back River

Locality Windmill Point to Flat Gut

19447-52

CHIEF OF PARTY J.H.Brittain, Chief of Field Party J.C.Sammons, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE May 12, 1958

DATA RECORD

T -11227

Project No. (II): Ph-118

Quadrangle Name (IV):

Field Office (II): Ship COWIE

Chief of Party: J. H. Brittain

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: J. C. Sammons

Instructions dated (II) (III):

Field: CS-350, 15 Aug. 1952

Office: 8 May 1953

Copy filed in Division of Photogrammetry (IV)

Office Files

Method of Compilation (III):

Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 6-15-63

Date reported to Nautical Chart Branch (IV): 6-26-53

Applied to Chart No.

Date:

Date registered (IV): 16 Oct 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

MHW Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): USHER, 1934

Lat.: 37° 04° 22.677"(699.1m) Long.: 76° 21° 05.368"(132.6m)

Adjusted Maragostack

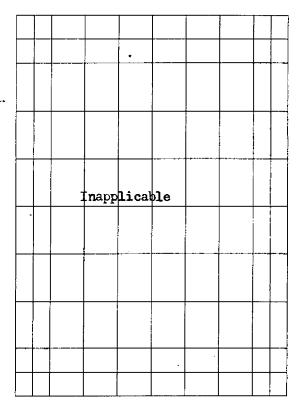
Plane Coordinates (IV):

State: Virginia Zone: South

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel (Show name within area) (II) (III)

DATA RECORD

Date: Sept. 1952 Field Inspection by (II): R. A. Parker Date: Planetable contouring by (II): Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): Photographs 9 Feb. 1952 22 Feb. 1947 (Southwest Branch) Date: 8 May 1953 Projection and Grids ruled by (IV): S. Rose Projection and Grids checked by (IV): H. D. Wolfe Date: 11 May 1953 Date: 18 May 1953 Control plotted by (III): J. C. Richter Date: 20 May 1953 Control checked by (III): J. C. Cregan L. A. Senasack Date: 4 June 1953 Radial Plot or Stereoscopie A. Queen Control extension by (III): Planimetry Date: Stereoscopic Instrument compilation (III): Contours Date: Manuscript delineated by (III): J. C. Richter Date: 10 June 1953 Photogrammetric Office Review by (III): R. Glaser Date: 11 June 1953 Elevations on Manuscript Date: checked by (II) (III):

U. S. C. & G. S. nine-lens Camera (kind or source) (III): U. S. C. & G. S. Cameras "C" & "J"

		PHOTOGRAPHS	(III)			
Number	Date	Time	Scale		Stage (of Tide
34710 to 34712	9 Feb. 1952	1046	1:10,000	1.3	abov	e MLW
51-J-984 to 991 51-J-2850 to	11 Apr. 1951	1200	i i	1.8		11
2857	2 May 1951	0939	11	0.9	11	11
47-C-65 to 68	22 Feb. 1947	1100	11	2.1	11	11
47-C-72 to 76	n	1120	11	2.1	11	11
47-C-81 to 84	11	1130	11	2.1	11	11

From predicted tide tables

Reference Station: Hampton Roads, Va.,

Subordinate Station: Messick Point, Back River Subordinate Station: Langley Field, Back River

Washington Office Review by (IV): Everett H. Ramey

Date: 26 Oct 1954

17

Range

3.0

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III): 27 Shoreline (Less than 200 meters to opposite shore) (III): 20

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 17

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III):

Ratio of Mean | Spring Range

Date:

Date:

Date:

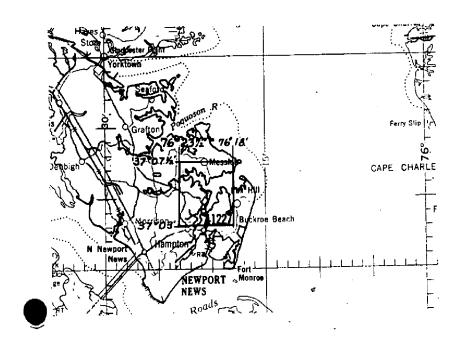
Identified: Identified:

Recovered: 17

Recovered:

Remarks:

SHORELINE MAPPING PROJECT PH- 118 BACK RIVER, VA.



OFFICIAL MILEAGE FOR COST Sheet No. Lin. Miles Shoreline 112247......41

TOTAL 41

Shoreline survey T-11227 covers shoreline in the Back River of Virginia including all of the Northwest Branch, the Southwest Branch, and Harris Creek. It is the only survey of Project Ph-118.

Project Ph-118 is a graphic compilation project. It was undertaken in order to furnish control and shoreline for a hydrographic survey (Project CS-350) done in 1952. Field work in advance of this compilation consisted only of control identification and the establishment of some additional control.

This survey was compiled at a scale of 1:10,000 using single-lens photographs taken in 1947 and 1951 and nine-lens photographs taken in 1952. Except for aids to navigation which were taken from graphic control boards, all features were compiled by an office study of the aerial photographs.

Items registered under T-11227 will be a descriptive report and a copy of the survey manuscript at a scale of 1:10,000.

DIDENTIFICATION OF TRIANGULATION ON PHOTOGRAPHS IN BACK RIVER

The identification of triangulation stations was done in conjunction with the graphic control surveys of Project CS-350, Supplemental Instructions dated 15 August 1952.

There are many triangulation stations in this area which are very prominent although not all of these were used for control of the hydrographic survey. The stations used, for the most part, were standard discs along the banks of the river. These discs are on marsh land or brush covered points and few definite substitute stations could be pricked.

Control Station Identification cards for the following stations have been filled out and all stations or sub-stations have been pricked on the corresponding photographs.

Each station except Langley View Water Tank was visited and all distances were taped and angles taken with a sextant.

√ GREEN, 1934 - Photo. 34712 J MESSICK 3, 1934 - Photo. 34712 SCHOOL, 1934 - Photo. 34711 J HOSPITAL, 1941 (direct) Photo. 34712 /LANG, 1934 (direct) - Photo. 34712 JOAK, 1934 - Photo. 34710 JSHAW, 1934 - Photo. 34710 LANGLEY FIELD SQUAT TANK, 1947 (direct) - Photo. 34712 GRASS, 1934 - Photo. 34712 LANGLEY VIEW WATER TANK, 1941 (direct) - Photo. 34712 FENCE. 1941 - Photo. 34712 CURTIS, 1934 - Photo. 34712 TOPOGRAPHIC STATIONS: JUSHER, 1934 - Photo. 34712 WATER, 1952 (direct) - Photo. 34711

IDENTIFICATION OF TRIANGULATION

ON PHOTOGRAPHS IN BACK RIVER

TRIANGULATION STATIONS:

KETCHUM, 1934 - Photo. 47-C-75

/ HARRIS, 1934 - Photo. 47-C-75

STAVE, 1934 - Photo. 34711

WILL 2, 1934 - Photo. 34712

GABLE STATIONS:
Gab, 1952 (direct) - Photo. 34712

CHIMNEY SHR Tall, 1952 (direct) - Photo. 34710

Chy, 1952 (direct) - Photo. 47-C-75

Silo, 1952 (direct) - Photo. 47-C-75

Respectfully submitted,

Robert A. Parker, Ensign, USC&GS., Ship COWIE.

DESCRIPTIVE REPORT

TO ACCOMPANY

GRAPHIC CONTROL SURVEYS T-

FIELD NO. CO-A-52 FIELD NO. CO-B-52

FIELD NO. CO-C-52

SHIP COWIE

BACK RIVER

SCALE: 1/10,000

J. H. BRITTAIN, COMDG.

A - PROJECT:

Project CS-350, Supplemental Instructions dated 15 August 1952.

B - SURVEY LIMITS AND DATES:

These are graphic control surveys made for the hydrographic survey of Back River.

The surveys, including Northwest Branch, Southwest Branch and Harris Creek were conducted between 15 September and 19 September 1952.

C - GENERAL:

- (1) Landmarks Landmarks for charts will be submitted with the hydrographic sheets.
- (2) Character of control The control used for these surveys consisted of previously established triangulation stations.
- (3) Aids to navigation All non-floating aids to navigation
 West of Longitude 78° 19° 30" were located by these surveys and all aids
 East of 76° 19° 30" were located by triangulation except Red Beacon No.
 6 which was located by sextant fix and check.
- (4) Methods Standard methods of graphic control were used.

 Resection or three point fixes were used where possible.

A combination graphic triangulation and traverse survey was run in Harris Creek.

C - GENERAL: (CONT.)

- (5) Description of Auxiliary Methods No auxiliary methods were in the graphic control.
 - (6) Form Lines No form lines or contouring was done.
- (7) Revision The area was photographed in March 1952 and these photographs show the general erosion of the Southern and Eastern banks of the river.

Triangulation station FENCE 1941 will soon be lost due to erosion of the bank. Reference Mark No. 2 for station HOLT 1934, was not found and was presumed to have been washed away. Reference Mark No. 1 for station KETCHUM 1934 is partially washed away and will soon be lost. Station SHARMAN 1934 and both reference marks are lying in the water, the station has toppled over. Station STONEY POINT 1934 is also in the water due to erosion.

- (8) Adequacy of Survey The surveys of Sheets CO-A-52, CO-B-52 and CO-C-52 are considered complete and adequate. Coast Pilot information, landmarks for charts and aids to navigation for this area are discussed in Descriptive Report to Accompany Hydrographic Survey H_____, (Field No. CO-1852).
- (9) Deviation from Standard Procedure. The graphic control was established by standard methods.
 - (10) Geographic Names None.
 - (11) Photographs None.
- (12) Changes in Shore Line No shore line topography was done in this survey.
 - (13) Magnetics No stations were occupied.

Respectfully submitted,

Robert A. Parker, Ensign, USC&GS., Ship COWIE.

PHOTOGRAMMETRIC-PLOT REPORT Project Ph-118 Survey T-11227

21. AREA COVERED

This radial plot covers the area of survey number T-11227. It is a shoreline survey located on Back River in Virginia.

22. METHOD - RADIAL PLOT

Map Manuscripts:

An acetate sheet with polyconic projection in black and Virginia State Grid, south zone, in red, at a scale of 1:10,000, was furnished by the Washington office. The base sheet was prepared in this office.

All control stations, topogrphic stations, and substitute stations, except substitute stations MESSICK 3, 1934 and WILL 2, 1934, were plotted using the beam compass and meter bar. Substitute stations MESSICK 3, 1934 and WILL 2, 1934 were plotted graphically, using a templet.

A sketch, showing the layout of the survey, the distribution of control, and photograph centers, is attached to this report.

Photographs:

Single lens unmounted photographs taken at a scale of 1:24,000 and ratioed to a scale of 1:10,000 and nine-lens unmounted photographs at a scale of 1:10,000 were used in the radial plot. Sixteen (16) photographs were used, numbered as follows:

Three (3) nine-lens: 34710 thru 34712

Thirteen (13) single-lens: 47-c-65 thru 47-c-68 47-c-72 thru 47-c-76 47-c-81 thru 47-c-84

Standard symbols were used on the photographs.

Templets:

Vinylite templets were made for all photographs using a master templet to correct for film and paper distortion.

Closure and Adjustment to Control:

A vinylite base sheet was prepared by transferring all identified control to the base sheet from the manuscript.

The radial plot was constructed on the base sheet.

The flight of nine-lens photographs was laid first holding to the best combination of control. Then the middle flight of single lens photographs wa was laid, adding the eastern flight and the western flight in that order. Difficulty was encountered in the area between OAK, 1934 and STAVE, 1934. By disregarding OAK, 1934; SCHCOL, 1934; and STAVE, 1934 a satisfactory plot was obtained in that area.

22. METHOD - RADIAL FLOT (cont'd)

Transfer of Points:

The positions of all pass points and photograph centers were pricked on the manuscript by superimposing the manuscript on the plot and matching control stations.

23. ADEQUACY OF CONTROL

There was adequate control for a satisfactory plot.

As previously mentioned all of the control stations could not be held in the radial plot.

OAK, 1934. The radially plotted position of the substitute station falls 0.7 mm southwest of the computed position. This point is a free on the edge of a group and was indefinite.

According to 1952 recovery This station mark was above ground on its side. Deleted.

SCHOOL, 1934. The radially plotted position of the substitute station falls 0.5 mm west of the computed position. This point, some bushes, is quite indefinite. An attempt was made to reprick it in this office, but the new point would not hold in the plottey o.5 mm. The field - identified the position missed the computed position by approx. 2.5 mm.

STAVE, 1934. The radially plotted position of the substitute station is 0.4 mm southwest of the computed position. This station could not be held with other control stations in the area. The point, the corner of a building, is indefinite. Apparently this discrepancy results from misidentification on photograph 34710 as other photographs appear to hold point.

WILL 2, 1934. The radially plotted position of the substitute station

WILL 2, 1934. The radially plotted position of the substitute station falls 1.2 mm southwest of the computed position. This station, a box in the marsh, was very difficult to identify. The box was probably moved since photography.

MESSICK 3, 1934. The radially plotted position of its substitute station falls 0.8 mm southwest of the computed position. This station could not be held with other control in the area. No reason could be found for this discrepancy. Identification of the station appears to be good.

HARRIS, 1934. The substitute station could not be held as identified in the field, but after investigation the station was repricked and held with the other stations.

KETCHUM, 1934. This substitute station as pricked in the field would not hold with the remainder of the plot. After investigation, the station was found to be mis-identified. It was repricked and held in the plot.

GAS PLANT CHIMNEY, 1918. This station was labeled INCINERATOR STACK on the field photographs. The position of GAS PLANT CHIMNEY, 1918 was held in the plot.

* Mossick 3. - If the supplement of the angle given by the field party were used in computing the position of the substitute station, the position thus obtained would agree very closely with the radial plot position the

See \$67

23. ADEQUACY OF CONTROL

TABB, 1934 and TOPPING, 1934. No control identification cards, form M-2226-12, were available for these stations. Therefore, no substitute stations could be computed.

24. SUPPLEMENTAL DATA

Seven (7) topographic stations were furnished on form 524's to be used as control. Five (5) were 1952 stations and two (2) were 1943 stations.

Stations GABLE 1952 and WATER, 1952 were found to be in error.

GABLE 1952. The longitude position on the form 524 was five (5) minutes in error. The correct position should be 76° 21' 605 m. The new position of the station could not be held in the plot. The station appears to be misidentified on another gable of the building. The form 524 is also without a detailed sketch of the building. State WATER, 1952. The station could not be held in the plot. After

WATER, 1952. The station could not be held in the plot. After investigation it was found the station falls 100 meters south of the position on the form 524. The correct position for the latitude should be 37° 05° 1482 m. The new position of the station was held in the plot and corresponds to the graphic control sheet.

* Form 524 was corrected. 8th

CHY, 1952. The station was mis-identified in the field. The chimney could not be identified, so the station was not pricked. KETCHUM 1934 was near by and was held.

CHY, 1943. The radially plotted position of the station falls 2.1 mm southeast of the geographic position. The position falls near the flight line and is weak.

25. PHOTOGRAPHY

The coverage, overlap, and definition were adequate for a satisfactory radial plot. There were no badly tilted photographs.

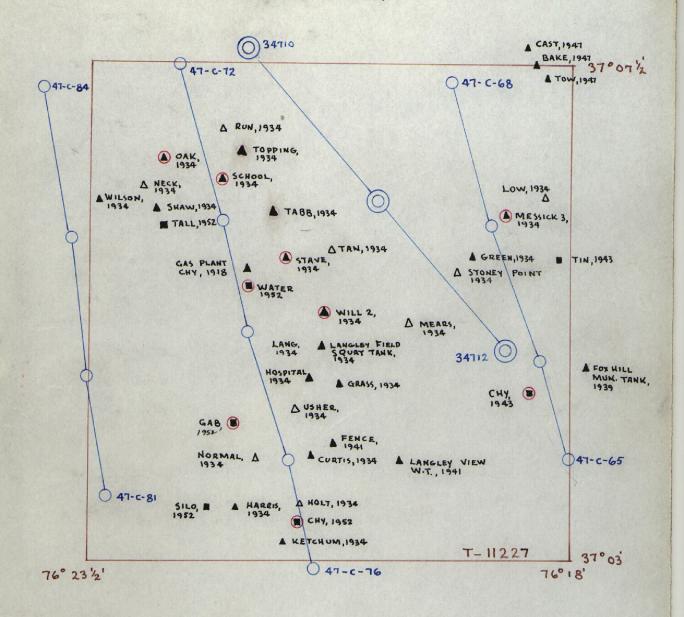
Respectfully submitted 5 June 1953

Albert Queen, Jr., 74.

albert Lucen fr

Carto. Photo. Aid

LAYOUT SKETCH PROJECT PH-118 SURVEY T-11227



- O Single lens office photographs
- Nine-lens office photographs
- A Control stations (identified)
- A Control stations (not identified)
- Control stations (not held in plot)
- Topographic stations (identified)
- 1 Topographic stations (not identified)
- Topo graphic stations (not held in plot)

Photogrammetry	1068	AP 1:10,000 SCALE FACTOR	DATUM FROM GRID OR PROJECTION LINE FROM GRID	טאאאוויין ריאר		1204.2 (6/15.1.)		(100 6)	(99/1-(PP)				h21.4 (1060.2)									-		1	853 6 (629)	(1.17 7)	1	A. Queen
		SCALE OF MAP	DISTANCE FROM GR OR PROJECTION LINE FORWARD																									CHECKED BY:
		PROJECT NO. Ph-118	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	37 05 52,267	76 19 10.958		76 22 04.475	37 06 47.00U	76 22 19.713	37 06 23,700	76 22 46.246		76 20 17.059		20	37 04 03.257	76 21 00.853	70	76 21 05,368	37 06 29.566	76 19 09.774	70	76 00 42.621	37 04 47.601	76 20 34.559	37 04 46.45	76 20 33.58	14 May
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0	TOAM	MAP I- LIZZZ	STATION	GREEN, 193h		. SCHOOL, 1934		64K 193L	100	SHAW, 1934		GRASS, 1934		ЕЕNCE, 1941		CURTIS, 1934		USHER, 1934		MESSICK 3, 1934		HOSPITAL. 19/1		LANG, 1934	LANGIEV DIETE	SOUAT TANK, FINIAL	17947	IFT.=.3048006 METER COMPUTED BYJ C Richter.

0			1	0		2 of 8	Photogrammetry
MAP T. 11227		PROJEC	PROJECT NO. PH-118	SCALE OF MAP 1:10,000	000	SCALE FACTOR	OR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
LANGLEY VIEW WATER	3 G-4805 P. 6	N.A. 1927	37 04 04.763 76 19 57.965			146.8 (1702.8)	
	0-2726		05				
STAVE, 1934	202	=	76 21 08.583			211.9 (1269.7)	
	G-2726		03				
HARRIS, 1934	707	=	76 21 42.804				
KETCHUM, 1934	G-2726	=	63				Mon. tilled - "The
	thos		76 21 17.498				1
WILL 2, 1934	G-2726		37 05 27.131				
	TOZ		76 20 15.710			388.0 (1093.8)	
	6-2726		37 02 37.688			1161.8 (687.8)) out of area
NETTLES, 1934	506	=	76 24 16,881			417.2 (1065.5)	4
	0-2726		37 06 28.949			892.4 (957.2))
WILSON, 1934	203	=	76 23 37,318			921.4 (560.0))
WILL 2, Sub.				PLOT GRAPHICALLY			
Pt., 1934							
MESSICK 3				PLOT GRAPHICALLY			
Sub Pt. , 1934							
GREEN SUB PT1,		N.A.	37 05			1564.4 (285.2)	(
1934	Comp	135.1	76 19			294.1 (1187.5)
SCHOOL SUB PT,			37 06			1216.8 (632.8)	
1934	=	=	76 22			110.6 (1370.8)	14
							.,
1 FT. = 3048006 METER COMPUTED BY: J.	C. Richter		оате 14 Мау 1953	CHECKED BY. A.	Queen	DATE 15	May 1953

DISTANCE FACTOR DISTANCE FROM GRID OR PROJECTION LINE | FROM GRID OR PROJECTION LINE IN METERS M.2388-12 (BACK) 15 FORWARD DATE 15 May 1953 SCALE FACTOR (452.6) (1215.1) (1226.6)(150.6) (1044.9) (554.3) (BACK) N.A. 1927-DATUM FORWARD 1295.3 437.6 623.0 1029.8 1699.0 1266.2 DATUM A. Queen SCALE OF MAP 1:10,000 DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS (BACK) CHECKED BY:..... FORWARD LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE 14 May 1953 PH-118 PROJECT NO. 03 05 겂 S 7 2 92 92 37 92 37 3 DATE... DATUM N. A. 1927 = ± SOURCE OF INFORMATION (INDEX) COMPUTED BY J. C. Richter Comp = = MAP T. 11227 1 FT. - .3048006 METER HARRIS, 1934 SUB PT. KETCHUM SUB PT., 1934 STAVE SUB PT. STATION 1934

Photogrammetry

3 of 8

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		Towns of the sustaining the state of the sta	SA		0		1 of 8	Photogrammetry
MAP T- 11227		PROJEC	PROJECT NO. PH-118		SCALE OF MAP. 1:10,000	000	SCALE FACTOR	R
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NECK, 1934	G-2726 203	N.A. 1927	37 06 43.507 76 22 52.180	907			1288.3 (193.1)	
RUN, 1934	G-2726 202	=		24 37			19-	
TOPPING, 1934	G-2726 202	=	37 06 53.444 76 21 35.009	4 生			(202.1)	Destroyed 1952
TAB, 1994	G-2726 202	=	37 06 14.946 342-14 13.549	2 2				Destroyed 1952. EITE
844.	G-2726 201	n	90 82	\$ \$			(1824.3)	Disturbed EHD.
GAS FLANT CHIMNEY, 1918	G-5918 p. 667	=	37 05 56,306	90	*		574.1 (907.5)	
STONY POINT, 1934	6-2726	E	37 05 46.968 76 19 26.334	97			((831.3)	Sec \$ 68
"MEARS, 1934	G-2726 201	=	19	80 07			(1353.	
NORMAL, 1934	0-2726	=	004	20 148				
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								H.S.
COMPUTED BY.J. C. Richter	Richter	70 D	рате 14 мау 1953		снескер ву: А• Queen	neen	DATE 15 May 1953	м.2388.12

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ETUPR C	RIVER G-1550 10 23,633		G-2726 201	N.A. 1927	37		38.369			1182.8	(666.8)	
SEE 1852 144	Sub Pt. Sub	1	0 2500		9)		23.633			583.5	(897.9)	
1947 1952 19 19 19 19 19 19 19 1	THIAL, 1939	LT. HSE, 1852	G-1250	=	37		13.407			113.3	(1436.3)	E. of area
Like Ministrant Graph February Feb	THIAL, 1939 299 " 76 17 15,253 THIAL, 1939 299 " 76 17 15,253 1947 6-74444 37 06 36,227 TB FT., Comp. 1,927 76 22 SUB FT, Comp. " 76 22 SUB FT, Comp. " 76 20 SUB FT, " 76 20		1		92		12.545			309.8	(1172.0)	
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MAP T. 11227		PROJE	PROJECT NO. Fh-118	SCALE OF MAP 1:1	000,01:1	SCA	SCALE FACTOR	R
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 DISTA FROM GRID OR F IN MI	N.A. 1927 - DATUM DISTANCE FROM GRID OF PROJECTION LINE IN METERS FORWARD GBACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
li .	Form	N.A.	37 05			147.6	(1402.0)	
WEST BRANCH 3, 1943	524	1927	76 20			193.5	(1288.3)	
TIDAL BENCH			37 00			200•0	(1649.6)	
MARK 11, 1943	=	=	76 18			1049.6	(434.0)	
TIDAL BM 1			37 01			15.0	(1834.6)	
1943	ŧ	ŧ	76 20			559.6	(923.7)	
BACK RIVER		•	37 06 18,22			5,195	(1288.0)	
16, 1943	z	=	76 18 52•45			1295.0	(186.5)	
BACK RIVER NORTH-	=	*	37 05			1670.6	(179.0)	
			76 20			295.6	(1186.0)	
	:	•	37 оц			1098.0	(35157)	
WEST BRANCH 5, 1943	= -	=	76 20			610.0	(872.1)	
	:	:	37 05			1160,6	(689.0)	
WEST BRANCH 3,1943	=	=	76 20			885.5	(596.2)	
ELEVATED WATER			37 00 25.11			774.0	(1075.6)	
TANK, 1944	=	=	76 18 17.96			0*11111	(1039.4)	
вис, 1943	E	=	37 03			237.0	(1612.6)	
			76 17			196.0	(1286.6)	
	;	:	37 05			1753.6	(0.96)	
ЕД, 1943	=	=	76 16			952.0	(529.6)	
FOX, 1943	=	ŧ	37 оц			0.94	(1803.6)	-
			76 16			1212.0	(270.3)	L8
тім, 1943	=	=	37 05			1435.6	(0.414)	,
			76 17			1051.5	(430.0)	
COMPUTED BY: J. & C. R. Chter.	chter	7G	рате 14 мау 1.953	снескер ву. А. Queen	neen		DATE 15 May 1953	м.2388.12

Photogrammetry	Д.	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)													S. of ared		S. of area				E. of area			9	S. of area		15 May 1953 M-2388-12
7 of 8	SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	1302.0 (547.6)	1241.0 (241.4)	839.0 (1010.6)	259.0 (1223.4)	578.0 (1271.6)	1078.0 (403.5)	552.0 (1297.6)	605.0 (877.2)	1582.0 (267.6)	702.0 (779.7)	1316.6 (533.0)	571.0 (911.0)	154.0 (1695.6)	(5.694) (469.5)	1640.6 (209.0)	615.0 (867.0)	638.6 (1213.0)	1176.0 (305.2)	136.6 (1713.0)	1175.0 (306.6)	894.9 (954.7)	250.0 (1231.5)	989.6 (850.6)	812.0 (671.1)	DATE
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0	SCALE OF MAP 1:10,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)																									снескер ву: А. Queen
1 5	PROJECT NO. PH-118	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	37 03 42.24	76 21 50.23	37 03 27.22	76 21 10.48	37 06 18.75	76 22 43.66	37 04 17.91	76 26 24.49	37 05 51.31	76 21 28.42		76 18 23,12	37 00 05.00	76 18 41.08	37 01 53.22	76 21 24.88		76 20 47.64	37 06 0 04.43	76 15 47.58		76 19 10-13	37 01 32,10	76 20 32.85	рате 14 Мау 1953
	PROJECT	DATUM	N.A.	1927		=				=		#		=		=		=		=		=		=	=		***
		SOURCE OF INFORMATION (INDEX)	Form	524		=		=		=		=		=		=		=		=		=		=	=		C. Richter
0	MAP T- 11227	STATION		SILO, 1952		сну, 1952	CHIMNEY 11/2	94日 ,1952	GABLE EM	GAB, 1952	True Ethe	**************************************		снх, 1943	BM 0. 27.	1943	BM U, 265,	1943	BM E. 266.		BACK RIVER	4, 1943	B.M. R.M.1	1943	BM N-27	1943	COMPUTED BY. J. C.

MAP T. 11227	C							Photos
No.				· matter			8 of 8	A Land Brown
Potential Pote	MAP T- TIEC		PROJE	CT NO. Ph-118	SCALE OF MAP 1:10	000,	SCALE FACTOR	۲
Porm N.A. 37 O7	STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM		FACTOR DISTANCE NOM GRID OR PROJECTION LIN IN METERS
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	BM-M-27						(14/0-0)	-
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February	1943	-	=				(308.6)	10.
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CROREK	LIGHT AND 1945	=	=				(113.0)	to
1	HAMPTON CREEK		:	10			(1763.6)	5
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	COMPUTED BY: J. C. F.	tichter	DATE	Ль Мау	A.	neen		

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MAP T. 11 227		PROJEC	PROJECT NO. Ph-118	SCALE OF MAP (: 10000	000	SCALE FACTOR	JR.
ATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BACK RIVER Chan. GPIS Light 14, 1952 P.82	6.	NA 1927	37 06 22,268	336.3			
Back River Channel Light 15, 1952	E		37 06 17.667	544.7			
Back River Channel Daybeacon 16, 1952	z	2	37 06 11,756 76 18 46.573	5.16.5			
Back River Channel Light 17, 1952	2	2	37 OC 12,137 76 19 OC.014	374.1			
let	G.P.S P.830	- 1	37 06 12 33 76 19 43.31	380,1			
Back R., Sw. Brawch Chan. Lt. 21, 1952	3		37 05 4746	14(3.6			
Stoney Point Daybeacon, 1952		5	37 05 56.05	1727.9			
							•
1 FT. = ,3048006 METER COMPUTED BY:	2	70	DATE	CHECKED BY:		DATE	M - 2388 - 12

COMPILATION REPORT

T-11227

31. DELINEATION

Graphic methods were used to delineate this manuscript.

In accordance with project instructions, delineation was limited to the MHWL, offshore details and non-floating aids to navigation.

32. CONTROL

Refer to radial plot report.

33. SUPPLEMENTAL DATA

Locations of aids to navigation were taken from the following graphic control sheets:

CO-A-52 scale 1:10,000 CO-B-52 " " CO-C-52 " "

Also some are Third-order or better and are shown as triangulation. Since

34. CONTOURS AND DRAINAGE

Contours: Inapplicable. Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

There was no field inspection. Survey T-8314 (1943) was used to aid in the interpretation of the photographs.

36. OFFSHORE DETAILS

Attempts were made to delineate as much offshore detail as possible, that is visible, on the photographs. It is believed that more features exist than are shown on the manuscript.

37. LANDMARKS AND AIDS

No Forms 567, for landmarks or aids to navigation are submitted.

Refer to Descriptive report for the graphic control surveys, copy of which is part of this report.

The included as part of chart Letter L750(1952)*

The latest Light List available was dated 1952, which was not up to date with respect to the aids in this area. Chart 1222 published 26 Jan. 1953, corrected to 2 Feb. 1953, conflicted with the character of some of the aids on the graphic control sheets. Names for most of the aids were not furnished.

* In agreement now (corrected at review) EMA

37. LANDMARKS AND AIDS (Cont'd)

The triangulation positions for the aids east of longitude 76° 19'
30" were not available at the compilation office. Added during review. Ether

The positions of lights in Back River established in 1943, are shown with red circles on the back. The positions of all the aids on the graphic control sheets, (some of which conflict with the 1943 positions) were transferred holding the projection lines. No further information is shown. It see is expected that the hydrographic party will submit the completed Forms 567.

It was not clear whether the recoverable topographic stations established were the recommended landmarks. No landmarks were shown on the manuscript.

No landmarks were recommended SHE

38. CONTROL FOR FUTURE SURVEYS

Five Forms 524, are submitted for recoverable topographic stations located by planetable surveys. They are listed in the field report which is part of this report.

Hydrographic stations were established in this area and located on the graphic control sheets but in accordance with compilation instructions, are not shown on this manuscript.

39. JUNCTIONS

There are no contemporary surveys to the north, east, south and west.

Surveys RS 441 and 442 (1952) Ph-86 are adjacent to this survey on the north edge.

LO. HORIZONTAL AND VERTICAL ACCURACY

No comment.

See \$66

41. thru 45.

Inapplicable

46. COMPARISON WITH EXISTING SURVEYS

This manuscript was compared with survey T-8314 (1943) scale 1:20,000 and with Corps of Engineers, Hampton, Va., quadrangle, scale 500 1:25,000 edition of 1944.

11, 1511 11

47. COMPARISON WITH CHARTS

This manuscript was compared with Chart 494, scale 1:40,000 published 26 May 1952, corrected to 23 June 1953, and with Chart 1222, scale 1:80,000 published 26 January 1953, corrected to 2 February 1953.

Items to be applied to Nautical Charts immediately:

See § 65

Character of the aids to navigation.

Bridges across Tabbs Creek.

Items to be carried forward:

Offshore details not visible on the photographs.

Respectfully submitted 10 June 1953

J. C. Richter

Carto. Photo. Aid

Approved and forwarded

Jack C. Sammons, Capt. U.S.C. & G. S. Officer in Charge

Baltimore Photo. Office

48. GEOGRAPHIC NAMES LIST

- Amorys Wharf
- Back Creek
- · Back Landing
- _ Back River
- Brick Kiln Creek
- Cedar Creek
- Cedar Point
- Elizabeth City Co. Not mapped. SHE

- Flat Gut
- Fore Landing Creek
- . Harris Creek
- High Cedar Creek
- Langley Field Bridge
- Long Creek
- Marsh Foint
- Messick Point
- _ Muddy Creek
- Newmarket Creek
- Northwest Branch
- JOak Island
- · Southwest Branch
- Stony Point
- Tabbs Creek
- . Tabbs Point
- Tide Mill Creek
- Tin Shell Point Topping Creek
- Watts Creek
- Willoughby Point
- Windmill Point
- Not mapped. EHE - York Co.

All names from Hampton, Va., quadrangle.

Names approved
10-8-54
Q.J.L.

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. //227

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size4.
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
9. Plotting of sextant fixes10. Photogrammetric plot report 11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line 14. Rocks, shoals, etc 15. Bridges 16. Ald
to navigation17. Landmarks 18. Other alongshore physical features 19. Other along-
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopi
instrument contours 24. Contours in general 25. Spot elevations 26. Other physics
featuresX
CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names34. Junctions35. Legibility of the manuscript 36. Discrepance
overlay 37 Descriptive Report 38. Field inspection photographs 39. Forms 39.
Reviewer Spervisor, Review Section or Wilt
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
Compiler Supervisor
43. Remarks: M-2623-12

Review Report Shoreline Survey T-11227 26 October 1954

62. Comparison with Registered Topographic Surveys:

T-499	1:20,000	1853-54
T-502	ĬI	1853-54 1853-154-192
T-2801	11	1906 - '07
T-8313		1914 1914
T-8314	11	1944

Except for cultural changes, Survey T-11227 agrees closely with T-8313 and T-8314. Differences noted were: T-11227 shows islands in the mouth of Tabbs Creek which are not shown on T-8314; T-8314 shows a channel connecting Back Creek, Long Creek and Fort Landing Creek which is not shown as connecting on T-11227; T-8314 shows two islands in Tide Mill Creek which are included as one on T-11227; and a datum difference of approximately 20 meters for which much the shoreline of Harris Creek is indicated between T-8314 and T-11227. For a discussion of this latter difference, see item 66. Survey T-11227 is to supersede these prior surveys for nautical charting purposes for the features covered by T-11227.

63. Comparison with Maps of Other Agencies:

Hampton, Va. (C.of E.) 1:25,000 1944 (Same as T-8314) Morrison, Va. (C.of E.) " (" " T-8313)

64. Comparison with Contemporary Hydrographic Surveys:

Because the hydrographic survey was in the process of compilation at the time of this review, comparison is deferred until the smooth sheet is reviewed.

65. Comparison with Nautical Charts:

494 1:40,000 1943 corrected to 53-3/23 1222 1:80,000 1953 corrected to 53-10/12

No significant differences were detected. Features noted under Item 62 above have been shown on these charts as mapped by T-11227 except for the island in Tide Mill Creek. Changes made to T-11227 during this review are shown in red.

66. Adequacy of Results and Future Surveys:

An attempt was made during this review to reconcile the position discrepancy of up to 20 meters noted under Item 62 above. The descriptions of the stations positioned by Graphic Control Board Co-C-52 were not available but the discrepancy appears to exist in the same sense as with T-8314. This area is the weakest

Adequacy of Results and Future Surveys (continued):

part of the photogrammetric plot for survey T-11227. However, it appears adequately controlled to obtain the required accuracy. Unless the hydrographic survey definitely indicates it to be in error, Survey T-11227 is recommended for positions, in this area.

Hydro, & 4 request from GE, revised to agree with more HWL. PHCarretters

Other than the above indicated possible error, this survey

is adequate for nautical charting and for hydrographic surveying.

Supplemental Data: 67.

Reference Item 24. Station "CHY, 1943": Apparently this station was not identified in conjunction with this survey. Because of a possibility of error in identification or by radial plot, the 1943 position is recommended for use. The The photogrammetric plot position has been deleted from the manuscript.

Positions for Stations: "GABLE 1952" and CHY 1952" are shown as obtained from the graphic control boards.

68. Control:

The 1952 recovery note for triangulation station "STONY POINT, 1934" is ambiguous. It states that the station was recovered and is covered at MHW and also that an old monument stamped "STONEY POINT 1934" was lying on its side in the water. The station is shown on the manuscript.

Reviewed by:

Approved by:

Chief, Cartographic Branch Div. of Photogrammetry

Div. of Photogrammetr

Chief, Nautical Chart Branch Div. of Chart

Chief, Div.

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-11227

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3 femi 59	78	A. Ellac Ewen	Partially applied After Verification and Review
6-8-64	1222	Fannie B. Powers	No Carrection opposited by Gr 6 3526424) Before After Verification and Review
			1962 photo revisioned on 6.5. Qualle Hampton in
		-	Before After Verification and Review
			Before After Verification and Review
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

M-2168-1