

T-11707

Original ✓

T-11707

T-11707

<p>Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY</p> <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
Type of Survey	SHORELINE
Field No.	Office No. T-11707
LOCALITY	
State	VIRGINIA
General locality	CAPE HENRY
Locality	BUCHANAN CREEK
<u>1962 - 1963</u>	
CHIEF OF PARTY Ray M. Sundean, Chief of Field Party V. Ralph Sobieralski, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T -11707

PROJECT NO. (II):

PH-6209

FIELD OFFICE (III):

Bayside Virginia

CHIEF OF PARTY

Ray M. Sundean

PHOTOGRAMMETRIC OFFICE (III):

Tampa Florida

OFFICER-IN-CHARGE

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Field - Sept. 12 1962
 Supplement " Oct. 16 1962
 Office - Oct. 30 1962

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III): MHW

~~MHW/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):

Norfolk West Base 1931 (West of project)

LAT.: 36°50'24.483" (754.7
m)

LONG.: 76°08'25.707" (637.0 m)

 ADJUSTED UNADJUSTED

PLANE COORDINATES (IV):

y = 193,144.77 Ft.

x = 2,690,434.24 Ft.

STATE

Virginia

ZONE

South

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.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): R. S. Tibbetts		DATE: Nov. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photographs: Sept. 2 1962 & May 3 1962 <i>Field Edit 1963 Cichy</i>		
PROJECTION AND GRIDS RULED BY (IV): A.R. (W.O.)		DATE Sept. 1962
PROJECTION AND GRIDS CHECKED BY (IV): LFB (W.O.)		DATE " "
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE Jan. 1963
CONTROL CHECKED BY (III): R. D. Purvis		DATE Jan. 1963
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh (W.O.)		DATE Jan. 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III): R. E. Smith	PLANIMETRY R. E. Smith Reviewed by: R. D. Purvis	DATE " "
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. E. Smith Reviewed by: W. H. Shearouse		DATE Jan. 1963
SCRIBING BY (III): P. W. Leikhim Reviewed by: W. H. Shearouse		DATE June 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. R. Wagner		DATE July 1963

REMARKS:

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild single lens W camera and S camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-W-4050	May 3, 1962	12:30	1:30,000 Dia-	-0.2
" 4051	"	"	" positive	"
" 4052	"	"	" "	"
62-S-1258A	Sept. 2, 1962	08:48	" "	±2.0
" 1259A	"	"	" "	"
" 1260A	"	"	" "	"

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Hampton Roads	-	2.5	3.0
SUBORDINATE STATION: Lynnhaven Inlet (R.R. Bridge)	H.W. -0.5 L.W. 0.0	2.0	2.4
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): W.H. Shearouse (Tampa District Office)

DATE: December 1963

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2

RECOVERED: 2

IDENTIFIED: 2*

NUMBER OF BM(S) SEARCHED FOR (II): 0

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 8

REMARKS:

* Both stations are west of project

COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	Jan. 1963	superseded
Alongshore area revised from field edit. Compilation complete	May 1963	

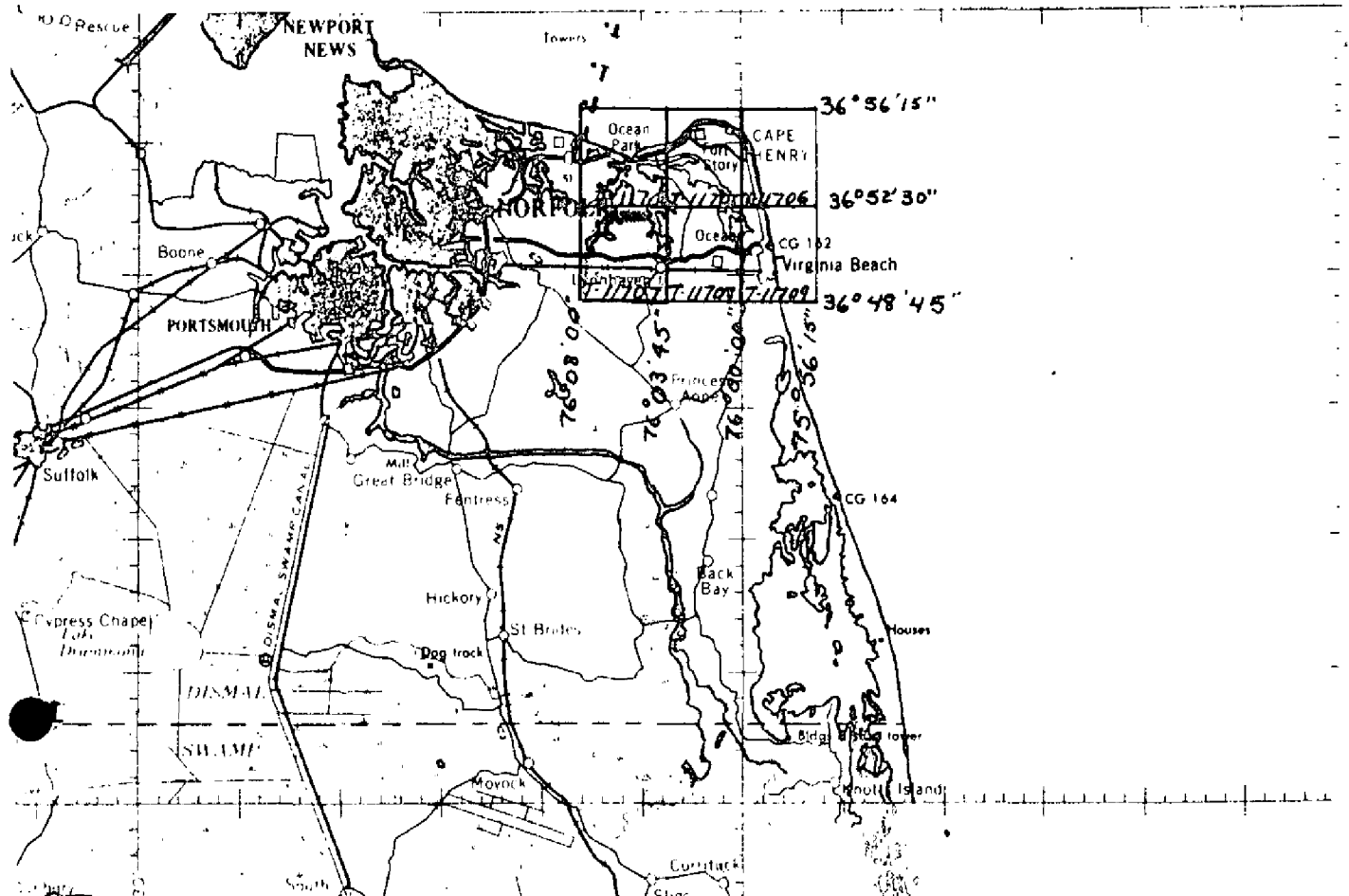
PROJECT PH-6209

LYNNHAVEN BAY VA.

SHORELINE MAPPING

SCALE 1:10,000

SHEET NO.	LINEAR MILES SHORELINE	AREA SQ. MILES
11704	18	5
11705	13	6
11706	4	15
11707	10	14
11708	5	14
11709	6	6



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-11707

Shoreline map T-11707 is one of six similar maps in project 21051 (PH-6209) and is the southwesterly map in the project. It covers Western Branch and Eastern Branches of the Lynnhaven River and their tributaries, and is immediately southwest of Cape Henry, Virginia. This is a Kelsh project in advance of hydrographic surveys which are being made in the same area. The field operations preceding compilation included field inspection and the establishment of photo-hydro stations in Western Branch Lynnhaven River. Kelsh compilation was at a scale of 1:10,000, from which a film negative showing shoreline and alongshore features was furnished for preparation of the hydrographer's boat sheet. 1:30,000 scale single lens contact photographs, taken May 3 and September 2, 1962, were used for compilation. Ratio (1:10,000) scale photographs were subsequently provided for field edit and hydro support purposes. The manuscript is a vinylite sheet 3 3/4' in latitude by 4 1/4' in longitude which was scribed and reproduced on cronaflex following photogrammetric office review. One cronar film positive and one cronar film negative of the final reviewed manuscript are provided for record and registry.

- 8 -

FIELD INSPECTION REPORT
T-11707

For all data pertaining to this sheet
please refer to the Field Inspection Report
for T-11704.

Respectfully submitted:

Ray M. Sundean
LT Ray M. Sundean
Chief of Party

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

West of

MAP T. 11. 707 PROJECT NO. PH-6209 SCALE OF MAP 1:10,000 SCALE FACTOR -

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS		
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)	
NORFOLK WEST BASE 1931	P.C. 2-11		y = 193, 144.77 FT x = 2,690, 434.24 FT ✓								
WTAR RADIO TOWER No. 1, 1931	P.C. 2-47		y = 191, 732.06 FT x = 2,669, 132.44 FT ✓								

PHOTOGRAMMETRIC PLOT REPORT

The stereo triangulation report was submitted with T-11704.

COMPILATION REPORT31. DELINEATION

The Kelsh plotter was used. The field inspection was generally adequate. However, there are a number of entrances to marsh or mud areas (indentures in the shoreline) where it was very difficult to interpret the difference. It would have been helpful if these areas had been clarified by the field inspector.

The diapositives were not as good as usual.. Delineation of the high water line, especially in some of the marsh areas was made more difficult by the relatively dark and grayish diapositives.

After compilation was completed on the Kelsh plotter, the ratio photographs (which appeared to have more contrast than the diapositives) were placed over a light table and the shoreline and marsh limits taken from the Kelsh plotter were verified.

32. CONTROL

See bridge report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was generally adequate and delineation was done accordingly. See Item 31. Shallow lines were delineated by office interpretation of the photographs. No low water line was shown.

All alongshore details such as piers indicated by the field inspection and the ones noted by office interpretation have been shown.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

Eight (8) photo-hydro stations have been located and are listed under Item 49 with descriptions for each.

It is believed that a sufficient number of shoreline pass points have been located on the manuscript.

39. JUNCTIONS

Junction has been made with T-11704 to the north and T-11708 to the east. Projects limits are to the west and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle PRINCESS ANNE, scale 1:24,000 edition of 1955. The two appear to be in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 1222 scale 1:80,000 18th edition July 1961. The two appear to be in good agreement as far as the chart covers. The map manuscript covers WEST BRANCH LYNNHAVEN RIVER considerably further inland than the chart.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. E. Smith
R. E. Smith
Carto Photo Aid

APPROVED AND FORWARDED 19 AUG 1963

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

T-11707

48. Geographic Names List

- Brown Cove
- Buchanan Creek
- Eastern Branch Lynnhaven River
- Hebden Cove
- Little Neck
- Pinetree Branch
- Thalia Creek
- Western Branch Lynnhaven River
- Witch Duck Point

George M. Ball
 Geographic Names Section
 6 February 1964

49. NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations with a description for each:

15	End of pier		
16	" "	" "	
17	" "	" "	
18	" "	" "	(North corner of "T")
19	" "	" "	
20	" "	" "	
21	" "	" "	
22	" "	" "	

PROJECTION AND GRIDS WHS	2. TITLE WHS		4a Classification label <u>unclassified</u>	3. MANUSCRIPT NUMBERS WHS	4. MANUSCRIPT SIZE WHS
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX		
	7. PHOTO HYDRO STATIONS WHS	8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT W.O. BRIDGE	
	11. DETAIL POINTS KELSH (RES)				
ALONGSHORE AREAS (Nautical Chart Date)	12. SHORELINE WHS	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. WHS	15. BRIDGES XX	
	16. AIDS TO NAVIGATION XX		17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES WHS	
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS				
PHYSICAL FEATURES	20. WATER FEATURES WHS		21. NATURAL GROUND COVER XX		
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES WHS				
CULTURAL FEATURES	27. ROADS XX	28. BUILDINGS WHS		29. RAILROADS WHS	
	30. OTHER CULTURAL FEATURES WHS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCELLANEOUS	33. GEOGRAPHIC NAMES WHS			34. JUNCTIONS WHS	
	35. LEGIBILITY OF THE MANUSCRIPT WHS		36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT WHS
	38. FIELD INSPECTION PHOTOGRAPHS WHS			39. FORMS WHS	
	SIGNATURE OF REVIEWER <i>William H. Shearouse</i> William H. Shearouse			SIGNATURE OF SUPERVISOR OF REVIEW SECTION OR UNIT <i>Milton M. Slavney</i> Milton M. Slavney	
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER <i>R.R. Wagner</i> for R.R. Wagner			SIGNATURE OF SUPERVISOR <i>Milton M. Slavney</i> Milton M. Slavney		

Field Edit Report, T-11707

No Field Edit Report has been received.

No requests were made of the field editor for clarification of compilation details.

Changes and additions recommended as a result of field edit have been made.

Tampa

REVIEW REPORT T-11707
SHORELINE
JANUARY 6, 1964

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8297	1:20,000	1944
T-8298	1:20,000	1944

This map supersedes the listed prior survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. - PRINCESS ANNE, VA.	1:24,000	1955
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64. COMPARISON WITH HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8724, 1:10,000 scale, dated October 1, 1962.

High-water line was corrected on the map manuscript to agree with boat sheet at approximate latitude 36°52', longitude 76°04', this being on the east side of EAST BRANCH LYNNHAVEN RIVER.

Marsh islands were omitted from boat sheet in creek at west side of Smith Point at approximate latitude 36°50.3', longitude 76°04.6'.

Overhead cables were omitted from boat sheet - one at latitude 36°51.2', longitude 76°04', another at latitude 36°51.6', longitude 76°04.5'.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 1227, 1:80,000 scale, 6th edition, revised August 6, 1962.

Due to large scale difference, detailed comparison was not made. Notable differences are piers and shoreline indentures not shown on the chart. The configuration of the shoreline is in fair agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

REVIEWED BY:

William H. Shearouse
William H. Shearouse

APPROVED BY: 22 APR 1964

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

APPROVED BY:

Charles Thamer
Chief, Cartographic Branch *let.*

Chief, Chart Division

L. J. Woodcock
Chief, Photogrammetry Division

[Signature]

TIDE COMPUTATION

PROJECT NO. Ph-6209 T. 11707

Time and date of exposure 848 Sept. 4, 1966 Reference station Hampton Roads, Va. Mean range 2.0
 Date of field inspection _____ Subordinate station Lynnhaven Inlet (RR Bridge) Ratio of ranges 1.0-0.5
2.41-0.0

	Time		Height feet	Height x Ratio of ranges
	h.	m.		
High tide	10	27	2.8	0.5 ✓
Low tide	3	56	0.3	✓
Duration of rise or fall	631 ✓			2.0 ✓

	Time	
	h.	m.
High tide at Ref. Sta.	11	04 ✓
Time difference		- 34 ✓
Corrected time at Subordinate station	10	27 ✓

	Time	
	h.	m.
Low tide at Ref. Sta.	4	51 ✓
Time difference		- 55 ✓
Corrected time at Subordinate station	3	56 ✓

	h. m.	feet	feet	Photo. No.
Time H. T. or L. T. Required time Interval	10 27 8 48 1 39 ✓	Ht. H. T. corrected Tabular correction Stage of tide above MLW	2.3 ✓ .3 ✓ 2.0 ✓	62-5-1259A
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		

Computed by [Signature] Checked by [Signature]