

5110

ORIGINAL

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 1 1936

Acc. No. _____

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic

Sheet No. T 5110

~~Topographic~~

State New York

LOCALITY

Northwestern Staten Island.

Revised 1935

Goethals Bridge to Fresh Kills.

19343

CHIEF OF PARTY

Roswell C. Bolstad, Jr. H. & G. E.

-1-
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 60

REGISTER NO. T 5110

State New York

General locality ~~Northwestern~~ Staten Island

Locality Port Richmond
~~Goethals bridge~~ to Fresh Kills

Scale 1:10,000 photographs Oct. 12, 1933
Date of survey Oct. 14, 1933

~~Vessel~~ Air Photo Compilation Party No. 12, New York City

Chief of party Roswell C. Bolstad

Surveyed by See data sheet in Descriptive Report for this sheet.

Inked by C. R. Weaver

Heights in feet above ---- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated November 15, 1932

Remarks: Compiled on scale of 1:10,417 and enlarged and
printed on scale of 1:10,000 by Photo Lithography.

...

STATISTICS
on

SHEET FIELD NO. 60, REG. NO. T5110

PHOTOS, NO. M 2777 (870-14) TO NO. M 2789 (870-14) TIME 9:05 A.M.
PHOTOS, NO. M 2829 (870-14) TO NO. M 2843 (870-14) TIME 11:03 A.M.
DATE OF PHOTOS: M 2777 to 2789 October 12, 1933.
M 2829 to 2843 October 14, 1933.

The scale factor of this sheet is 0.96

PROJECTION	<u>R.A. Philleo</u> R.A. Philleo	5/17 - 5/17/34	
PROJECTION CHECKED	<u>E.W. Fickenscher</u> E.W. Fickenscher	5/18 - 5/18/34	
CONTROL PLOTTED	<u>J.G. Albert</u> J.G. Albert	5/24 - 5/24/34	
CONTROL CHECKED	<u>R.H. Peckworth</u> R.H. Peckworth	5/25 - 5/25/34	
TOPOGRAPHY TRANSFERED	<u>None</u>		
SMOOTH RADIAL LINE PLOT	<u>R.H. Peckworth</u> R.H. Peckworth	6/5 - 6/22/34	
RADIAL LINE PLOT CHECKED	<u>J.P.O'Donnell</u> J.P.O'Donnell	6/23 - 6/23/34	
DETAIL INKED	(Shoreline) <u>J.J. Lanigan</u> (Junction) <u>D.B. Bogart</u>	6/25 - 6/27/34 8/15 - 8/21/34	
<u>Preliminary Review</u>	<u>C.R. Weaver</u> <u>R.H. Peckworth</u>	<u>9/17 - 12/13/34</u> <u>12/15 - 1/2/35</u>	less 14 days.
AREA OF DETAIL INKED	<u>18.7</u> sq. Statute Miles	(Land Area)	
AREA OF DETAIL INKED	<u>0.0</u> sq. Statute Miles	(Shoals in Water Area)	
LENGTH OF SHORELINE	(more than 200 m. from nearest opposite shore)	<u>5.8</u> Statute Miles	
LENGTH OF SHORELINE	(rivers and sloughs less than 200 m. wide)	<u>74.0</u> Statute Miles	
LENGTH OF ROADS, STREETS, R.R., etc	<u>111.6</u> Statute Miles		
GENERAL LOCATION	<u>Northwestern Staten Island</u>		
LOCATION	<u>Goethals bridge to Fresh Kills</u>		
DATUM	<u>North American 1927</u>		
STATION	<u>Asbury Church 1906, 1931</u>	Latitude <u>40° 35' 58.101"</u> (1792.2 m.) -	
		Longitude <u>74° 09' 48.946"</u> (1150.8 m.) -	

COMPILER'S REPORT
for

AIR PHOTO TOPOGRAPHIC SHEET FIELD NO 60

GENERAL INFORMATION

The Air Photo Field Inspection Report, 1934, for Staten Island attached to the Descriptive Report for Air Photo Topographic Sheet Reg. No. T5107, furnished the necessary field data for the compilation of this sheet. Additional information was obtained from the notes on the field prints and from a special field inspection by C. R. Weaver, Draftsman Party No. 12.

The accompanying STATISTICS SHEET details all data used in the compilation of this sheet.

Photographs used in the compilation of this sheet were taken by the U. S. Army Air Corp with their five lens camera, Model T-3A, No 31-78. At the time these photographs were taken, October 12, 1933 at 9:05 A.M. and October 14, 1933 at 11:03 A.M., the tide was practically at low water according to the U. S. Tide Tables.

CONTROL

(A) Sources

The following sources of control were used in the compilation of this sheet:

- (a) Triangulation by Lieut. R. W. Woodworth in his 1930-1933 lists, positions unadjusted.
- (b) Topography by Lieut. S. Forney in 1915.

All control was placed on the North American 1927 Datum before beginning the compilation. The adjustment would be unplotable at the scale of this compilation 1:10,417.

There were no topographic signals used as control on this sheet.

(B) Errors

There are no apparent errors in the control positions for this compilation. The control is adequate and the radial plot gave good intersections.

(C) Discrepancies

No control stations established by other organizations were used in this compilation.

COMPILATION

(A) Method

The usual radial line method of plotting was used in the compilation of this sheet.

(B) Adjustment of Plot

The photographs of this area appear to have very little scale fluctuation or distortion due to tilt. The plot was well controlled by the available triangulation.

An oblique aerial photograph showing Prall's Creek and U.S. Shipping Board vessels assembled there accompanies this report. The photograph, clipped from the Newark Call Feb. 1935, was taken toward the east from a point west of Prall's Island.

so that it is believed to be within the specified limits of accuracy.

(C) Interpretation

The usual graphic symbols were used as approved by the Board of Surveys and Maps (1932) and no great difficulty was experienced in interpreting the photographic detail.

The double full line was used to indicate first order roads and the double broken line for private driveways and roads of lesser importance. An exceedingly poor road or trail was shown by a single dashed line. In most cases, unless labeled on the field inspection print, the classification of these roads had to be determined under the stereoscope by comparison in appearance with labeled roads.

The storage terminal of the Gulf Refining Company (Latitude 40° 37.5' Longitude 74° 11.5') is shown on this compilation. No attempt has been made to show the pipe lines in this area since their failure to show clearly on the photos prohibits doing so. The drainage ditches surrounding the terminal have been shown by double solid lines. Each system of ditches appears to drain into an oil separator bay before it is allowed to discharge into nearby streams. These separator bays are shown and so designated on the cover sheet. The rectangular network of earth embankments which serves to isolate the individual tanks is represented by a single broken line composed of long dashes. (Changed to short dashes on new edition)

Prall's Creek, on the east side of Prall's Island, is occupied by U. S. Shipping Board vessels that have been laid up there. The limits of the location of these vessels has been shown by a single broken line on this compilation and has been labeled on the cover sheet. *

* see
note on
opposite
page
←

A golf course is located at Latitude 40° 34.6' Longitude 74° 09.0'.

Bridges:

A draw bridge crosses Richmond Creek one mile above its entrance into Fresh Kills. It is a bascule span, with an opening 60' feet wide and a vertical clearance when closed of 9 ft. (2.7 m.)

The approach to the Goethals Bridge (Latitude 40° 37.8' Longitude 74° 11.0') appears on this compilation. The bridge itself lies beyond the limits of the sheet. Data concerning the bridge may be found in the U. S. Coast Pilot.

There are no other bridges of importance on this sheet.

COMPARISON WITH OTHER SURVEYS

The landmarks "Chy" ($40^{\circ} 36.2' - 74^{\circ} 11.7'$) and "Ch. Tower" ($40^{\circ} 36.9' - 74^{\circ} 11.3'$) shown on C. & G. S. Charts No. 369 and No. 285 were omitted from this compilation since the structures were found to be demolished. These landmarks were listed by Lieut. R. W. Woodworth for expunging in December 1932.

(D) Information from other sources.

No information from other sources than those listed under paragraph (A), CONTROL, was used.

(E) Conflicting Names

There are no conflicting names on this compilation.

The names Richmond, Arlington, and Graniteville are names from the U. S. Geological Survey Maps.

The names of several through roads (Forest Avenue, Richmond Avenue, and Victory Boulevard), shown on the cover sheet, were obtained by field inspection.

COMPARISON WITH OTHER SURVEYS

The junctions with other air photo topographic sheets are satisfactory. Although the high water line shown on the compilation is believed to be within the allowable limits of accuracy, there may be slight errors at some places inasmuch as the field inspection party did not make actual field measurements to the high water line, except at a few places.

A long narrow dock which showed distinctly on the photos appears on this compilation (Latitude 40 35.7 Longitude 74 12.0). It is not shown on U. S. C. & G. S. Charts No. 285 and No. 369.

LANDMARKS

"Taller Chy.", located by A.P.T., is a new chimney built in 1933. It is taller than the triangulation station "Sq. Chy.-Greenhouse", is adjacent to it, and of similar construction.

The list of landmarks for this area has been previously submitted by Lieut. R.W. Woodworth in February, 1931.

There are many other objects such as houses, ends of docks, and the like which are located within the accuracy specified under the following heading, RECOMMENDATIONS FOR FURTHER SURVEYS; and may be used to obtain hydrographic fixes. Care should be taken in using the houses to use the center as they may be expanded somewhat.

RECOMMENDATIONS FOR FURTHER SURVEYS

The compilation of this sheet is believed to have a probable error of not more than two (2) meters in well defined detail of importance for charting and of not more than four (4) meters for other data. It is understood that the widths of roads and similar objects may be slightly expanded in order to keep the detail clear and to keep it from photographing as a solid area in the photo-lithographic process. *See review at back.*

To the best of my knowledge this sheet is complete in all detail of importance for charting purposes, within the accuracy stated above, and no further surveys are required.

Submitted by

Assisted by

RH Peckworth

Draftsman

C. R. Weaver

C. R. Weaver

Draftsman

67"

LIST OF RECOVERABLE TOPOGRAPHIC STATIONS

CLASS (B) LANDMARKS

N.A. 1927

	<u>Latitude</u>			<u>Longitude</u>			<u>Method of Determination</u>	
			(452)			(89)		
Taller Chy.	40	35	1399	74	10	1322	A.P.T. 1934	✓ 285

REVIEW OF AIR PHOTO COMPILATION NO. T 5110

Chief of Party: Roswell C. Bolstad

Compiled by: (See page 2,
Des. Report)

Project: New York Air Photo Compilation Instructions dated: Nov. 15, 1932
Party No. 12

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
See paragraph (C) Interpretations, page 4. and the last paragraph of COMPARISON WITH OTHER SURVEYS.
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)
See paragraph CONTROL (A), page 3.
4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
See paragraph CONTROL (A), page 3.
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
There are no differences on this sheet.
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
See paragraph CONTROL (A), page 3 and paragraph COMPILATION (B), page 3.
7. High water line on ~~marshy and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. The representation of low water lines, ~~reefs, coral reefs and rocks~~, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)
See Report of Control Party, Lieut. R. W. Woodworth in 1932.
Adequate triangulation stations at required intervals.
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
Previously submitted by 1932 Field Party under Lieut. R. W. Woodworth.
11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
See "Bridges" under COMPILATION, (C) Interpretation, page 4.
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
See paragraph (E) page 5, New York City Board of Estimate & Apportionment Official Map Shows correct street names which can be placed on this compilation if desired.
13. The geographic datum of the compilation is North American and the reference station is correctly noted. 1927
See page 2.
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) See par. *Remarks*, Descriptive Report Reg. No. T5108. *Junction with #99 not made.*
15. The drafting is satisfactory and particular attention has been given the following:
 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 2. The degrees and minutes of Latitude and Longitude are correctly marked.

3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks: Any additional notes and requirements affecting this area are referred to Lieut. R. W. Woodworth's Reports covering the ~~topography~~ ^{triangulation (& landmarks)} executed in 1932 under his charge.

18. Examined and approved;

Preliminary Review:

R. H. Peckworth
R. H. Peckworth

Draftsman

Roswell C. Bolstad
Roswell C. Bolstad

Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

C. K. Green
Chief, Section of Field Records

L. O. Lobnitz
Chief, Division of Charts

Frederick L. Peacock
Chief, Section of Field Work

Thurston
Chief, Division of Hydrography
and Topography.

Remarks

Decisions

1		
2		
3		
4		
5	GRANITE VILLAGE ON 1859 MAP.	
6	One photo compilation only	
7		
8	* DUNCAN ID. ON USGS QUAD (up for decision by G.S.)	
9		
10		
11		
12		
13		
14		
15	The P. M. of Staten Island, N.Y., and others, report there two names obsolete: replaced by Travis for the entire district.	
16		
17		
18		
19		
20		
21	LONG NECK RUN	
22	KARLS NECK RUN	
23		
24		
25		
26		
27		
1234		

Names marked x accepted as noted on G & G S. chart indicated. No original authority discovered after extensive search through old sheets & maps, except in the three cases noted on this page.

BTG:mer

Bp. 27113

GEOGRAPHIC NAMES

Survey No.

T-5110

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	Ry. Guide	
✓ <u>Old Place Creek</u>	285	✓			✓					1
✓ <u>Flat Creek</u>		✓								2
✓ <u>Mariners Harbor</u>	285		✓		✓				✓	3
✓ <u>Arlington</u>	285		✓						✓	4
✓ <u>Graniteville</u>	285		✓		✓					5
✓ <u>DE Baron/Hirsch Cemetery</u>				✓						6
✓ <u>Richmond</u> ?			✓		✓	✓				7
x <u>Pralls Island</u>	285	✓	*							8
x <u>Pralls Creek</u>	285	✓								9
✓ <u>Chelsea</u>	285		✓		✓					10
x <u>Sawmill Creek</u>	285									11
✓ <u>Bloomfield</u>	285		✓							12
x <u>Neck Creek</u>	285	✓								13
✓ <u>Graniteville</u> 369 285	369 285		✓							14
✓ <u>Travis</u> 369 285	369 285	✓	✓	✓						15
x <u>Little Fresh Kills</u>	286									16
✓ <u>Fresh Kills</u>	369 286		✓		✓					17
x <u>Great Fresh Kills</u>	286									18
x <u>Lakes Island</u>	286 369									19
✓ <u>Cedar Point</u>	286									20
x <u>Springville Creek</u>	286 285									21
✓ <u>Richmond Creek</u>	286									22
x <u>Benedict Creek</u>	286									23
x <u>Sleight Creek</u>	286									24
✓ <u>Greenridge</u>	286		✓							25
✓ <u>GOETHALS BRIDGE</u>										26
✓ <u>Port Richmond</u> 285	285									27
✓ <u>Graniteville</u> 8/3/36										28

Names underlined in red approved

by W. H. H. H. on Mar 23/36

Remarks

Decisions

1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
M 234		

Remarks

Decisions

1	These four places are not	
2	post offices: see letter	one word
3	from P. M. of Staten Island, N.Y.	
4	filed under E.P.H. 14	
5		
6		
7		
8		
9		
10		
11		
12		
13		OK for Planimetric Map only }
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T 5110

Name on Survey	A	B	C	D	E	F	G	H	K	
<u>Bulls Head</u>			✓	✓			✓		*	1
<u>Willow Brook</u>			✓	✓			✓		*	2
<u>New Springville</u>			✓	✓			✓		*	3
<u>Castleton Corners</u>			✓	✓			✓		*	4
										5
Add Names			Board of Estim & App. Map, 1937							6
			sheet 26							7
<u>Main Creek</u>			✓							8
<u>Latourette Park</u>			✓							9
<u>New Springville Park</u>			✓							10
<u>Willowbrook Park</u>			✓							11
										12
<u>St. Agnes Cemetery</u>			✓							13
<u>United Hebrew "</u>			✓							14
<u>Ocean View "</u>			✓							15
<u>Sea View Hospital</u>			✓							16
										17
<u>GLE 6/24/38</u>										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved
by E. J. W. on 8/1/36

REVIEW OF AIR PHOTO COMPILATION T 5110

Comparison with Graphic Control Surveys

There are no graphic control surveys in this area.

Comparison with Previous Topographic Surveys

T 3450 (1915), 1:10,000

T 3450 covers the shore of Arthur Kill throughout the limits of the compilation. Shoreline discrepancies are few and minor. No conflict of importance occurs. No inshore detail is shown on T 3450. The compilation is adequate to supersede T 3450 throughout the area common to the two surveys.

T 1720 (1886), 1:10,000

T 1720 is an older survey than T 3450 covering practically the same area. All changes are minor and the compilation is adequate to supersede T 1720 in all points of detail except a few small bluffs.

Comparison with Hydrographic Surveys

The latest hydrographic surveys in this area were made in 1880 and no comparison is made with them.

Comparison with Charts 285, 286, and 369.

The U. S. Shipping Board vessels moored and practically abandoned in Pralls Creek in such manner as completely to block navigation are not shown on chart 285.

The easterly of the two chimneys shown at the Wild Linoleum Plant ($40^{\circ} 35'$, $74^{\circ} 11.9'$) is not listed in the later landmark lists and cannot be seen on the photographs. For these reasons it is believed to be non-existent or very inconspicuous. An elevated water tank very close to this position has been located by the radial plot in this office and is considered suitable for a landmark.

All the wrecks shown at the mouth of Sleight Creek are not shown on charts 286 and 369. No other important discrepancies occur.

The culture should be revised on charts 285, 286 and 369 to conform to the compilation as many new developments, roads and commercial plants have been built in this area since the date of the latest previous surveys.

Landmarks

All landmarks charted within the area of this compilation are shown on the compilation except the chimney discussed under comparison with chart 285. See also preceding page 5.

General

The drafting on this sheet is heavy and the use of too much thinner in the celluloid ink has resulted in a large amount of stain on the celluloid which will necessitate much negative work before a satisfactory printing can be obtained.

A better statement of the accuracy of this compilation is 0.2 to 0.5 mm. for intersected points and 0.2 to 0.8 mm. for other detail.

March 13, 1936.

Ralph M. Berry
Ralph M. Berry

B. G. Jones

Additional note 10/4/35.

This sheet was entirely redrawn in 1935 prior to printing of the finished whole-some copy which was filed 10/5/35. In redrafting T 5110 changes were made in the buildings and in several points, after the offbeat of T 5110 to charts 285, 286 and 369. The changes affecting the charts have been noted on the standards this date 10/4/35

B. G. Jones

Corrections made on Chart 285 to shoreline
and area adjacent Sept 15, 1936 H.B.

Applied to Chart 285 Dec 22, 1937 Chas R Bushy

Applied to Chart 286 Jan 20, 1938 Chas R Bushy



STATE OF