

9299

Diag. Cht. Nos. 1214-2 & 1215-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. PH-54 (49) C Office No. T-9299

LOCALITY

State NEW YORK

General locality GREAT SOUTH BAY

Locality GREAT COVE TO NICOLL BAY

194/50

CHIEF OF PARTY

E. R. McCarthy, Chief of Field Party.

H. A. Paton, Baltimore Photo. Office.

LIBRARY & ARCHIVES

DATE July - 13 - 1951

9299

DATA RECORD

T - 9299

Project No. (II): Ph-54(49)C Quadrangle Name (IV):

Field Office (II): Babylon, N. Y.

Chief of Party: E. R. McCarthy

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: H. A. Paton

Instructions dated (II) (III):

20 October 1949

3 February 1950

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): 4-25-50 Date reported to Nautical Chart Branch (IV): 4-26-50

Applied to Chart No.

Date:

Date registered (IV): 26 June 1950

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): MHW

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): Heckscher, 1932

Lat.: 40°42' 13.229", (408.1m)

Long.: 73° 08' 58.101" (1364.0m)

Adjusted
~~Vertical Datum~~

Plane Coordinates (IV): Lambert

State: N.Y.

Zone: L.1.

Y= 175,347.63

X= 2,235,824.57

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.

DATA RECORD

Field Inspection by (II): W.H. Shearouse Date: Jan. 1950
J. A. Clear
J. T. Beecher
H.R. Spies -
H.R. Moore

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):
23 September 1947 (date of photograph) ^{Corrected ENR} ~~verified~~ in part by planetable
during field season ending January 1950.

Projection and Grids ruled by (IV): T.L. Janson Date: 2/9/50

Projection and Grids checked by (IV): H.D.W. Date: unknown

Control plotted by (III): A.K. Heywood Date: 2/15/50

Control checked by (III): A.C. Rauck Date: 2/15/50

Radial Plot or Stereoscopic A.C. Rauck and D.M. Brant Date: 2/24/50
Control extension by (III):

Planimetry Date:
Stereoscopic Instrument compilation (III):
Contours Date:

Manuscript delineated by (III): D.A. Maskell Date: 3/30/50

Photogrammetric Office Review by (III): R. Glaser Date: 4/13/50

Elevations on Manuscript Date:
checked by (II) (III):

Camera (kind or source) (III): U.S. Department of Agriculture, single lens

PHOTOGRAPHS (III)					
Number	Date	Time	Scale	Stage of Tide	
ASA 3D 159	9/23/47		1:10,000		
" " 160	"		"		
" " 161	"		"		
" " 162	9/23/47	1103	"	.12 above MLW	
" " 165	"		"		
" " 166	"		"		
" " 167	"		"		
" " 199	"		"		
" " 200	"		"		
" " 201	"		"		
" " 202	9/23/47	1124	"	.12 above MLW	

From Predicted Tables

Reference Station: Sandy Hook

Subordinate Station: Great River, Connetquot R, Great South Bay

Subordinate Station: Bay Shore, Great South Bay

Ratio of Ranges	Mean Range	Spring Range
0.1	0.6	0.7
0.1	0.6	0.7

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

Date: *7 July 1950*

Final Drafting by (IV): *Dean, Lucas, Day*

Date: *Sept. 14, 1950*

Drafting verified for reproduction by (IV): *Mupiec*

Date: *Nov. 27, 1950*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): *7*

Shoreline (More than 200 meters to opposite shore) (III): *16*

Shoreline (Less than 200 meters to opposite shore) (III): *15*

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): *17* ✓

Recovered: *10*

Identified: *10*

Number of BMs searched for (II): *5*

Recovered: *5*

Identified: *5*

Number of Recoverable Photo Stations established (III): *2**

Number of Temporary Photo Hydro Stations established (III): *21*

Remarks:

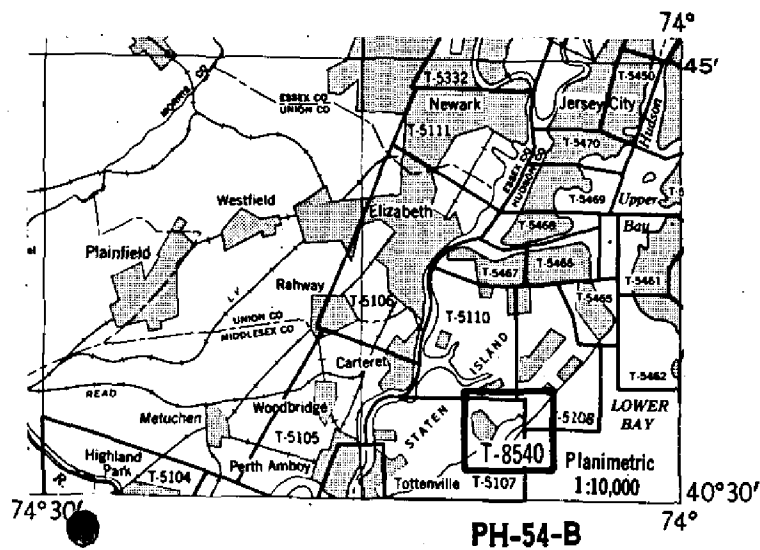
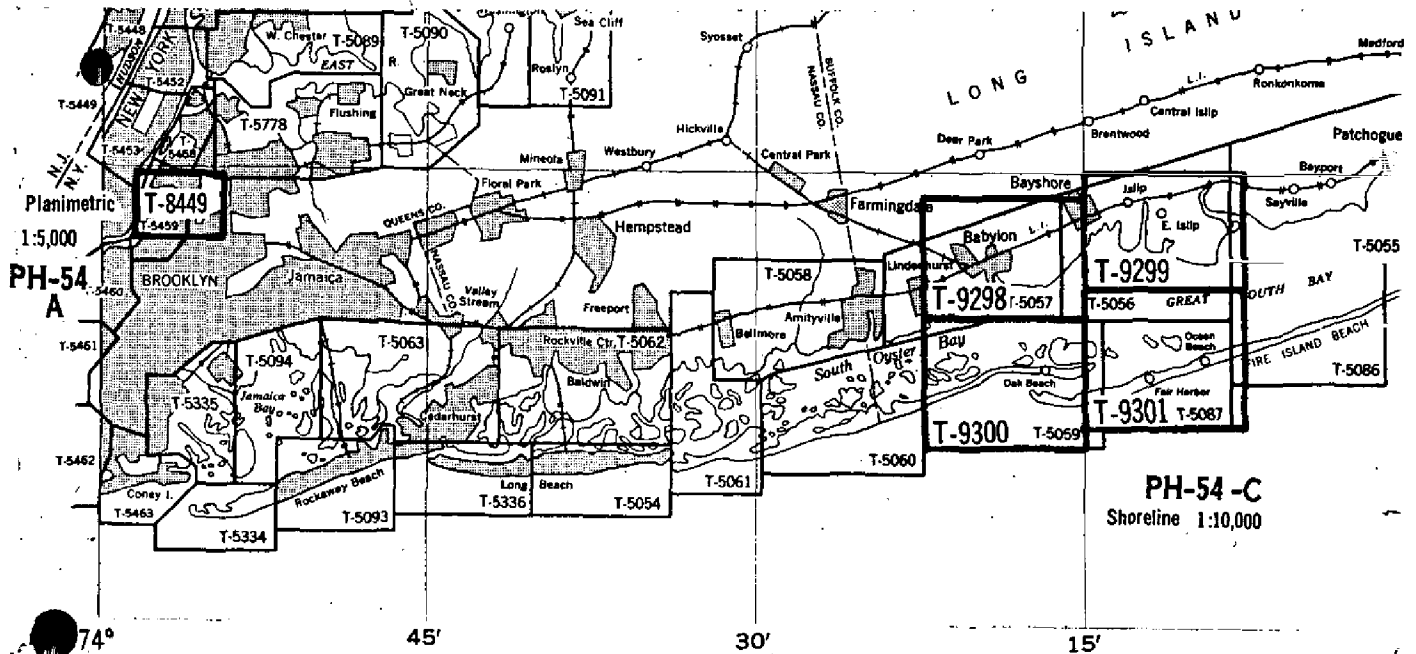
~~* Only one established by the field party - the other is the radially plotted position of OAKDALE, 1950 (See item 23 of radial plot report)~~ *ET/R*

PLANIMETRIC AND SHORELINE MAPPING PROJECT

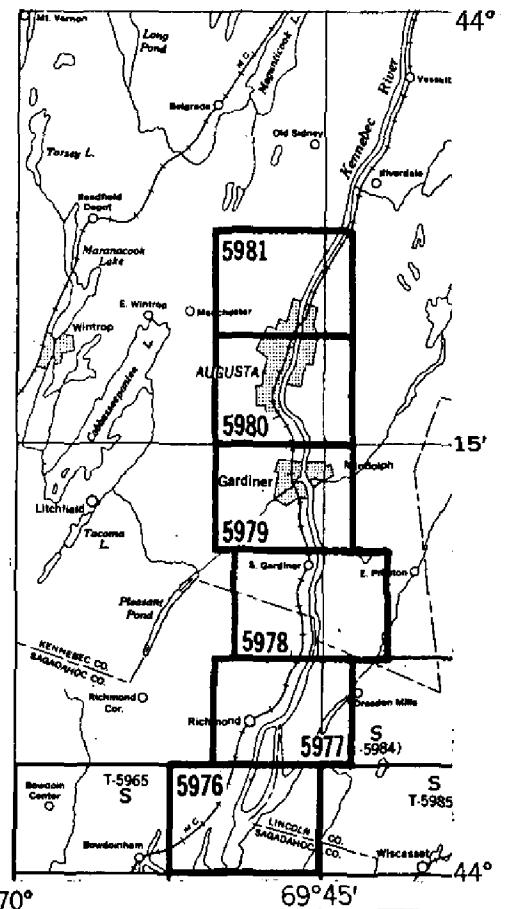
PH-54 (49)

PH-51 (49)

NEW YORK, Long Island, and Staten Island



PH-51 (49)
MAINE, Kennebec River
SHORELINE
1:10,000



Summary to Accompany T-9299

Shoreline map T-9299 is one of four similar maps in project Ph-54(49)C and is the most northeasterly map of this project. It covers a portion of Great South Bay and land area adjacent extending from Great Cove to Nicoll Bay.

This is a graphic compilation project, in advance of hydrographic surveys to be done in this area at an early date. The field operations preceding compilation included the inspection of shoreline and alongshore areas and the establishment of some additional horizontal control.

The manuscript is at a scale of 1:10,000 and shows shoreline, alongshore features and photo-hydro stations. It covers 4' in latitude by $7\frac{1}{2}$ ' in longitude.

A cloth-mounted lithographic print of the map manuscript and the descriptive report will be registered and permanently filed in the Bureau Archives.

**Field Inspection Report
and
Photogrammetric Plot Report**

These reports for this survey are filed in the General Files, Division of Photogrammetry as part of the Descriptive Report for survey T-9300 and cover all of project Ph-54(49)C, surveys T-9298 through T-9301.

MAP T 9299

PROJECT NO. Ph-54(49)C

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR π -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	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)
X BAYSHORE, METHODIST CH.SP., 1909	G-4084 P. 65	N.A. 1927	40 43 24.065 73 14 45.612			742.3 1108.5 1070.5 337.6	
X BAYSHORE STANDPIPE, 1909	"	"	40 43 31.513 73 14 33.200			972.0 878.8 779.1 629.0	
X EAST ISLIP TANK, 1933	G-4084 P. 64	"	40 44 12.581 73 11 36.960			388.1 1462.7 867.2 540.7	
LA SALLE, FLAG- POLE, 1933	G-4084 P. 63	"	40 43 46.78 73 07 10.99			1443.0 407.8 257.9 1150.1	Beyond limits of compilation
LA SALLE TOWER, 1914	"	"	40 43 48.351 73 07 10.552			1491.4 359.4 247.6 1160.4	Beyond limits of compilation
W. SATVILLE TANK, 1914	"	"	40 43 56.270 73 05 54.828			1735.7 115.1 1286.5 121.4	Beyond limits of compilation
GREEN, 1933	II P. 48	"	40 43 05.851 73 06 13.604			180.5 1670.3 319.3 1089.0	
X NICHOLS, 1909	"	"	40 41 56.852 73 08 54.154			1753.7 97.1 1271.4 137.2	
X HECKSCHER, 1932	G- 1246 P. 11	"	40 42 13.229 73 08 58.101			408.1 1442.7 1364.0 1447.52	
ISLIP METHODIST CH.SP., 1909	By letter from W.D. 10-2-50	"	40 43 41.62 73 13 00.46			1283.8 567.0 10.8 1397.2	
X ISLIP PRES.CH. SP., 1909	"	"	40 43 40.62 73 13 04.57			1253.0 597.8 107.2 1301.1	
* Computed by application of datum differences							

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M. 2388-12

1 FT. = 3048006 METER
COMPUTED BY: H.R. Rudolph

DATE 2-7-50

CHECKED BY: G.N. Nathan

DATE 7 February 1950

COMPILATION REPORT

T-9299

FIELD INSPECTION REPORT

The field inspection report for this area is included in the descriptive report for Survey No. T-9300 submitted to the Washington Office on 4-19-50, *filed in General Files, Div. of Photogrammetry.*

PHOTOGRAMMETRIC PLOT REPORT

The photogrammetric plot report for this area is included in the descriptive report for Survey No. T-9300 submitted to the Washington Office on 4-19-50, *filed in General Files, Div. of Photogrammetry.*

31. DELINEATION

This survey was delineated by graphic methods.

32. CONTROL

The identification of horizontal control for this survey was adequate. The density and placement of horizontal control was adequate for the NW and SE portions of the survey but was inadequate for the NE and SW portions. This subject is more fully discussed in the first paragraph of item 23 in the radial plot report, *filed with Descriptive Report for T-9300. See also item 67 of same report and item 66 of this report. EHR*

33. SUPPLEMENTAL DATA

1. Geographic name standard dated 7 February 1950 on Army Map Service quadrangle "Bay Shore East". This was furnished by the Washington Office.

2. Air photo compilations T-5055 and T-5056 of this Bureau.

34. CONTOURS AND DRAINAGE

Contours - Inapplicable

Drainage - No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. The delineation of low water lines were based on field inspection.

36. OFFSHORE DETAILS

No comment.

No offshore features surveyed. EHR

37. LANDMARKS AND AIDS

Form 567 for six landmarks is being submitted with this report. One of these landmarks is just outside the project limits to the east of this survey.

Form 567 attached to this report.

38. CONTROL FOR FUTURE SURVEYS

Form 524 is being submitted for BUMS, 1950, which was plotted on the manuscript from data furnished by the field party.

Since no geographic position for triangulation station OAKDALE, 1950 was available, Form 524, originating at the compilation office, is here-with submitted for the radially plotted position of this station.

*See Item 67 of Descriptive Report for T-9300 filed in General Files,
These stations are listed under item 49. Div. of Photogrammetry for
discussion regarding these stations.
ENR*

39. JUNCTIONS

Junction with Survey No. T-9298 to the west has been made and is in agreement. Junction with T-9301 to the south is in an all water area. To the north and east are the project limits.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

See Item 66.

41. BRIDGES

There are several small bridges on the manuscript which have skiff clearance only.

42. through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

This manuscript was compared with the Army Map Service quadrangle "Bay Shore East" scale 1:25,000 edition of 1944 revised to 1947. It was also compared with Air Photo Compilations No. T-5056 and T-5055.

47. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-9299 has been compared with USC&GS Chart No. 578, scale 1:40,000, published 4-26-48 and corrected to February 27, 1950.

Items to be applied to charts immediately
None.

Items to be carried forward
None.

Respectfully submitted
31 March 1950

Doris A. Maskell
Doris A. Maskell
Cartographic Photogrammetric Aid

Approved and forwarded
28 April 1950

Hubert A. Paton
Hubert A. Paton
Comdr., USC&GS
Officer in Charge

Per Joseph Steinberg
Joseph Steinberg
Photogrammetric Engineer

49. NOTES FOR THE HYDROGRAPHER

There are two recoverable topographic stations shown on the manuscript:

BUMS, 1950
OAKDALE, 1950

There are twenty-one photo-hydro stations on the survey.

Photo-hydro No.	Photograph No.	Description
001.	ASA-3D-207	Flagpole on east end of building
002.	" 198	Center of roof tower
003.	" 198	Center of north window dome
004.	" 198	Center of house tower
* 005.	" 199	Northwest corner of swimming pool
* 006.	" 200	East gable of building
* 007.	" 200	Northeast corner of pier
008.	" 200	Center of flagpole
009.	" 201	Northeast corner of building
010.	" 201	Center of small building
011.	" 202	Center of flag pole
012.	" 165	Center of flag pole
013.	" 166	Center of flag pole
014.	" 161	Center of chimney
015.	" 161	Flag pole on top of building
016.	" 160	Center of grass clump in center of circle
* 017.	" 160	Center of cupola on west side of house
* 018.	" 160	Center of windmill
* 019.	" 160	Center of tower on building
020.	" 160	Center of flag pole
021.	" 160	Center of flag pole.

* See Item 67.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9299

1. Projection and grids B 2. Title B 3. Manuscript numbers B 4. Manuscript size B

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy B 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) B 7. Photo hydro stations B 8. Bench marks B
~~9. Plotting of sextant fixes~~ 10. Photogrammetric plot report B 11. Detail points B

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline B 13. Low-water line B 14. Rocks, shoals, etc. B 15. Bridges B 16. Aids to navigation B
 17. Landmarks B 18. Other alongshore physical features B 19. Other along-shore cultural features B

PHYSICAL FEATURES

20. Water features B 21. Natural ground cover B 22. Planetable contours B 23. Stereoscopic instrument contours B
 24. Contours in general B 25. Spot elevations B 26. Other physical features B

CULTURAL FEATURES

27. Roads B 28. Buildings B 29. Railroads B 30. Other cultural features B

BOUNDARIES

31. Boundary lines B 32. Public land lines B

MISCELLANEOUS

33. Geographic names B 34. Junctions B 35. Legibility of the manuscript B 36. Discrepancy overlay B
 37. Descriptive Report B 38. Field inspection photographs B 39. Forms B
 40. Raymond Blaser Joseph Steinberg
 Reviewer Supervisor, Review Section or Unit

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:

48. GEOGRAPHIC NAMES

- • Awixa Creek
- • Bayberry Point
- • Bay View Avenue
- • Brentwood Road
- • Brick Kiln Creek
- • Champlin Creek
- • Connetquot River
- • Great Cove
- • Great River (village)
- • Great River Road
- • Great South Bay
- • Heckscher State Park
- • Islip
- • Lawrence Creek
- • Long Island Railroad (Montauk Division)
- • Marks Avenue
- • Nicoll Bay
- • Nicoll Point
- • Oakdale
- • Ocean Avenue
- • Orowoc Creek
- • Penataquit Creek
- • Penataquit Point
- • Timber Point
- • Watchogue Creek
- • Widows Creek

Additional:

- • East Islip
- • Riviera Beach club

Names preceded by • are approved.
7-6-50. L. Heck

Review Report T-9299
Shoreline Map
7 July 1950

62. Comparison with Registered Topographic Surveys:

T-1	1:10,000	1834
T-1314	1:10,000	1873
T-1374	1:10,000	1874
T-3483	1:20,000	1914
T-5055	1:10,000	1934
T-5056	1:10,000	1934
T-6013	1:20,000	1933

This survey supersedes the above surveys for nautical charting purposes for the area of this survey.

63. Comparison with Maps of Other Agencies:

Bay Shore East, N. Y.
(AMS quadrangle) 1:25,000 1944, revised 1947

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

578	1:40,000	1941, revised 2-6-50
1214	1:80,000	1940, revised 6-14-48

66. Adequacy of Results and Future Surveys: *There are no significant differences between T-9299 and the charts.*

Features below the plane of mean high-water are subject to verification or revision by hydrographic surveys. This survey complies with project instructions and meets the National Standards of Map Accuracy.

67. Notes for the Hydrographer:

The photo-hydro stations marked by asterisks in Item 49 fell at or near the azimuth between photograph centers and were thus positioned by narrow angles of intersection formed by only two cuts. The probable accuracy of these stations is slightly less than that specified. However, any errors in these positions should occur primarily in a north-south direction and will affect the hydrography in only the streams which are tributary to Great South Bay. Photo-hydro stations 005 and 007 were repositioned during the review of this manuscript.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

APPROVED

L. V. Griffith
Chief, Review Section E.H.M.
Div. of Photogrammetry

H. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

Wm. Seale
Chief, Div. of Coastal Surveys
H.H.

NAUTICAL CHARTS BRANCH

SURVEY NO. 9299

Record of Application to Charts

[illegible]

M-2168-1

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.