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U. S. COAST & GEODETIC SURVEY  
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NOV 27 1934  
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Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

**DESCRIPTIVE REPORT**

Topographic Sheet No. D 6124  
~~XXXXXXXXXX~~

State New Jersey

LOCALITY  
Newark Bay

193 4

CHIEF OF PARTY  
I. E. Rittenburg

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

NOV 27 1934

REG. NO.

6124

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. "D"

REGISTER NO. 6124

State New Jersey

General locality Newark Bay

Locality Inner portion of Newark Bay

Scale 1:10 000 Date of survey Sept.-Oct., 1934

Vessel Shore Party #15

Chief of party I.E. Rittenburg, Lieut.

Surveyed by A.O. Dority, Surveyor.

Inked by A.O. Dority

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

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

Instructions dated June 13th, supplement Sept 7th, 1934

Remarks: .....

*Applied to Chart 285 Aug. 1935. S. S. Loomis  
" (in part) to Chart 287 Aug 1935. J. S. Loomis*

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET "D"  
PROJECT H.& T. #186, NEWARK BAY, NEW JERSEY.

AUTHORITY:

This survey was made in accordance with orders and instructions covering H.& T. Project #186, dated June 13th, 1934 and supplemental orders dated Sept. 7th, 1934. Field work was accomplished during September and October, 1934.

LOCALITY:

The area covered by this survey extends over the upper portion of Newark Bay, including Port Newark Basin, from Lat. 40-39.7, Long. 74-07.9, East shore and Lat. 40-39.9, Long. 74-09.4, West shore to the mouths of the Passaic and Hackensack Rivers.

CONTROL:

The basic control for this survey was the triangulation established by R.W. Woodworth in 1931 and supplemented by various other U.S.C. & G.S. triangulation dating from 1887. This sheet is on North American 1927 datum.

METHODS:

All signals were built and located before any shoreline was mapped. Signals were located by the usual method of obtaining at least three clear and distinct intersecting cuts to each signal, with plane table and alidade, from the occupancy of three triangulation stations. No traverse was run for any purpose. Shoreline, Rocks, wrecks and all details were all located by direct rod readings and there was no improvised sketching of any detail.

GENERAL:

In general the shoreline has changed very little from that charted currently. There are a few changes due to the deterioration of docks and bulkheading and the extension of marsh lands. There are few real dangers within the limits of this sheet, rocks, rock ledges and all wreckage is plainly discernable.

LAND MARKS, PHOTO CONTROL, RECOVERABLE TOPOGRAPHIC STATIONS:

Additional land marks for charts; The following land marks are clearly visible and are good for charting:- CHY. PUMPING STATION-Triangulation 1931. E. AND W. TANKS AT PORT NEWARK-Triangulation 1931. TANK, WEYERHAUSER-Triangulation 1931. All other charted land marks still exist and are good.

Photo control points:-

KAN---Topo.

VEE---Topo.

BRICK---Topo.

RED---Topo.

PEA---Topo.

BRAD---Topo.

BEACONS #1 AND #3, Hackensack River---Triangulation.

BEACONS #1, #2, #3, #4 and #5, Newark Bay---Triangulation.

OLD TOWER---Triangulation.

E. AND W. TANKS, Port Newark---Triangulation.

TANK, WEYERHAUSER---Triangulation.

TANK, LEOLASTIC---Triangulation.

All recoverable topographic stations are described on cards, form 524 and have been forwarded to the office.

APPROVED;

I.E. Rittenburg, Lieut.  
Chief-of-party, U.S.C. & G.S.

A.O. Dority,  
Surveyor.

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Chief-of-party, U.S.C. & G.S.

A.O. Dority,  
Surveyor.

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

NEWARK BAY

OCTOBER, 1934

10001

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

I. E. Rittenburg, Lieut.

*Chief of Party.*

| DESCRIPTION   | POSITION |             |           |             |           | METHOD OF DETERMINATION | CHARTS AFFECTED    |
|---|----------|-------------|-----------|-------------|-----------|-------------------------|--------------------|
|   | LATITUDE |             | LONGITUDE |             | DATUM     |                         |                    |
|   | ° ' "    | D.M. METERS | ° ' "     | D.P. METERS |           |                         |                    |
| CHY. Sewage pumping station. (Tri.)   | 40-42    | 1360.       | 74-08     | 229.        | N.A. 1927 | (Tri.)                  | 369 & 1215<br>287✓ |
| EAST TANK, Port Newark. (Tri.)  | 40-42    | 33.         | 74-08     | 793.        | "         | (Tri.)                  | " "<br>287✓        |
| WEST TANK, Port Newark (Tri.)   | 40-42    | 332.        | 74-08     | 1383.       | "         | "                       | " "<br>287✓        |
| TANK, WEYERHAUSER, Port Newark.   | 40-41    | 1139.       | 74-08     | 1242.       | "         | "                       | " "<br>287✓        |
| NOTE:<br>DM's and DP's scaled from Topographic sheet, Field # "D". Geographic positions were returned to New York field office prior to investigation of the above listed land-marks. |          |             |           |             |           |                         |                    |
|   |          |             |           |             |           |                         |                    |
|   |          |             |           |             |           |                         |                    |
|   |          |             |           |             |           |                         |                    |
|   |          |             |           |             |           |                         |                    |
|   |          |             |           |             |           |                         |                    |
|   |          |             |           |             |           |                         |                    |
|   |          |             |           |             |           |                         |                    |

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

U. S. COAST & GEODETIC SURVEY  
DIVISION OF CHARTS, FILE NO. \_\_\_\_\_  
NOV 27 1934  
Acc. No. \_\_\_\_\_

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

NEWARK BAY

OCTOBER, 1934

XXXXX

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

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I. E. Rittenburg, Lieut.

Chief of Party.

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|---|----------|---|--------------|-------|-------|-------------------------|----------------------|
|   | LATITUDE |   | LONGITUDE    |       | DATUM |                         |                      |
|   | °        | ' | D. M. METERS | °     |       |                         |                      |
| CHY. Sewage pumping station. (Tri.)   | 40-42    |   | 1360.        | 74-08 | 229.  | N.A. 1927               | (Tri.)<br>369 & 1215 |
| EAST TANK, Port Newark. (Tri.)  | 40-42    |   | 33.          | 74-08 | 793.  | "                       | (Tri.) " "           |
| WEST TANK, Port Newark (Tri.)   | 40-42    |   | 332.         | 74-08 | 1383. | "                       | " " " "              |
| TANK, WEYERHAUSER, Port Newark.   | 40-41    |   | 1139.        | 74-08 | 1242. | "                       | " " " "              |
| NOTE;<br>DM's and DP's scaled from Topographic sheet, Field # "D". Geographic positions were returned to New York field office prior to investigation of the above listed land-marks. |          |   |              |       |       |                         |                      |
|   |          |   |              |       |       |                         |                      |
|   |          |   |              |       |       |                         |                      |
|   |          |   |              |       |       |                         |                      |
|   |          |   |              |       |       |                         |                      |
|   |          |   |              |       |       |                         |                      |
|   |          |   |              |       |       |                         |                      |

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To: Mr. Bacon  
From C. F. M.

Survey No. T 6124

# GEOGRAPHIC NAMES

## NEW JERSEY

Date. Dec. 7, 1934

Chart No. 369

Diagram No. 369-4

Names underlined in red approved Dec 14, 1934

Harlow Bacon

\* Approved by the Division of Geographic Names, Department of Interior.

Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

[illegible]

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6124 (1934)

Newark Bay, New Jersey.

Surveyed September-October, 1934

Instructions dated: June 13, 1934 to September 7, 1934(Rittenburg)

Plane Table Survey - Aluminum Mounted.

Chief of Party - I. E. Rittenburg.

Surveyed by - A. O. Dority.

1. Condition of Records.

The records conform to the requirements of the Topographic Manual with the following exceptions:

a. Notes regarding objects which cover at high tide are in vertical lettering. The manual requires slanting lettering for such features.

2. Compliance with Instructions for the Project.

The survey complies with instructions in every respect.

3. Junctions with Contemporary Surveys.

Satisfactory junction was made with T-6125 (1934) on the south.

4. Comparison with Prior Surveys.

a. T-10 (1836) and T-533 (1855).

Only a general comparison was made between this survey and the present survey. The entire shoreline has undergone a change due to the development of the area.

b. T-1719 (1885-86)

Because there have been many changes due to construction and improvements, it was possible only to compare the shorelines for general trend. The many changes are not unexpected in an area of this character and they are not treated in detail.

c. T-3431 (1913).

The shoreline of this survey where it has not been changed, was found to be in good agreement with the present survey. However, practically all docks as now shown did not exist in 1913. The L.V.R.R. & P.R.R. Bridge appears to have been rebuilt in a location south of the old position. Beacons are now the aids to navigation where buoys were formerly used.



5. Field Drafting.

The field inking of the survey is satisfactory.

6. Additional Field Work Recommended.

The shoreline detail is complete and no additional field work is required.

7. Superseding Old Surveys.

Insofar as the topography actually included on the present survey is concerned, it supersedes the following surveys for charting purposes:

|        |        |          |
|--------|--------|----------|
| T-10   | (1836) | in part. |
| T-533  | (1855) | " "      |
| T-1719 | (1886) | " "      |
| T-3431 | (1913) | " "      |

8. Reviewed by A. F. Jankowski, December 1934.

Examined and approved:

C. K. Green, *C. K. Green.*  
Chief, Section of Field Records.

*J. S. Borden*  
Chief, Section of Field Work.

*L. O. Pollock.*  
Chief, Div. of Charts.

*G. Thode*  
Chief, Div. of H. & T.

REVIEW OF GRAPHIC CONTROL SURVEY T-6124, SCALE 1-10000, Oct. 1934

Date of Review Aug. 1, 1935 (T-5111)  
 Aug. 12, 1936 (T-5277) *Revised*

1. This survey has been reviewed in connection with Air Photo May 28, 1937  
 Compilation Nos. T-5277, T-5111, T-5106, with particular attention to T-5468 (T.M.P.)  
 the following details: T-5468, T-5469, T-5470 June 11, 1937  
 T-5469 (T.M.P.)  
 June 28, 1937  
 T-5470 (T.M.P.)

- (a) Projection has been checked in the Field. ✓
- (b) Accuracy of location of plane table control points. 3 mm.
- (c) Discrepancies between detail on this survey and the air photo compilations listed above. See Desc. Rept. T-5111
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5277, T-5111, T-5106, for a more complete discussion of any errors or discrepancies found. T-5468, T-5469, T-5470

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green. *no corrections shown.*

Yes for T-5468, T-5469, T-5470.  
 (errors in A or Q only, noted)

*Projection:—* The distance between the minutes of latitude are correct but the distances between the meridians are all 2 mm. too great. As the control was plotted from this incorrect projection, some error was <sup>thus</sup> introduced into the control.

*Leonard A. Hulsauer*

*D. H. Benson 8/5/35.*  
*B. G. Jones*

For area covered use {T-5468} for chart compilation  
 and {T-5469}  
 {T-5470} T.M.P. Price