**U. S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>CS-262-C</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-5927</td>
</tr>
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</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>California</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>San Francisco Bay</td>
</tr>
<tr>
<td>Locality</td>
<td>Point Isabel</td>
</tr>
</tbody>
</table>

**1946**

**CHIEF OF PARTY**

G.E. Morris, Jr.

**LIBRARY & ARCHIVES**

**DATE** February, 1949
DATA RECORD

Quadrangle (II): None


Instructions dated (II III): 8 Feb. 1944

Completed survey received in office: 0 Aug. 1944

Reported to Nautical Chart Section: 5532 (before review) 22 Nov. 1948

Reviewed: 24 April 1948

Redrafting Completed:

Registered: 24 January 1949

Compilation Scale: 1:10,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Reference Station (III): Pullman Shops black stack, 1921

Lat.: 37° 55' 40.88" Long.: 122° 20' 17.06"

Adjusted

State Plane Coordinates (VI): 2 Zone

Military Grid Zone (VI)
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>6361 - 65 incl. 9/3/41</td>
<td>12:17 p.m.</td>
<td>1:10,000</td>
<td>5.2 ft.</td>
<td></td>
</tr>
<tr>
<td>6381</td>
<td>12:37 p.m.</td>
<td></td>
<td>5.0 ft.</td>
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<tr>
<td>6387</td>
<td>1:05 p.m.</td>
<td></td>
<td>4.6 ft.</td>
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</tr>
<tr>
<td>14030</td>
<td>6/2/43</td>
<td>2:30 p.m.</td>
<td></td>
<td>2.2 ft. 2.4</td>
</tr>
<tr>
<td>14031</td>
<td>2:30 p.m.</td>
<td></td>
<td></td>
<td>2.2 ft. 2.4</td>
</tr>
</tbody>
</table>

1:V: 43-45 1945 (War Dept.) single lens
1:V: 54-54

Tide from (III): Pt. Richmond, San Francisco
Mean Range: 4.2
Diurnal Range: 5.9
Camera: (Kind or source) U. S. C & G. S. 9 lens - 84° focal length

Field Inspection by: C. A. Kester date: 1944

Field Edit by: None date: --

Date of Mean High-Water Line Location (III): Date of Photographs

Projection and Grids ruled by (III) S.R., B.R.C. date: Dec. 13, 1944
checked by: B.R.C. date: Dec. 15, 1944
Control plotted by: D. G. Singleton date: Apr. 13, 1945
Control checked by: B. H. Lyon date: Apr. 13, 1945
Radial Plot by: D. G. Singleton date: Apr. 25, 1945
Detailed by: R. A. Reece date: June 1946
Reviewed in compilation office by: J. A. Giles date: July 1946

Elevations on Field Edit Sheet checked by: date:
STATISTICS (III)

Land Area (Sq. Statute Miles); 25.3

Shoreline (More than 200 meters to opposite shore); 6.4

Shoreline (Less than 200 meters to opposite shore); 2.8

Number of Recoverable Topographic Stations established; 2

Number of Temporary Hydrographic Stations located by radial plot; none

Leveling (to control contours) - miles; none

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname

and initials (not initials only).

Remarks:
26 and 27 CONTROL AND RADIAL PLOT

A special report by B. H. Lyon, Asst. Photogrammetric Engineer, covering main radial plot was submitted with the compilation report accompanying Map Manuscript No T-5928.

Attention is called to a letter from Capt. E. J. Pagenhart, dated Feb. 27, 1945 stating that all necessary notes and forms covering the triangulation and topographic stations have been forwarded to the Washington Office.

28 DELINEATING

The delineation of this Map Manuscript has been done according to the current instructions for this project dated February 8, 1944.

In the delineation of this map manuscript it was necessary to use a 6300 and a 14000 series of 9 lens photographs; the former dated 9/3/41, the later 6/2/43. A single lens photograph dated 8/27/44 was used in delineating the Richmond Shipyards, which, for the most part, were constructed after the 6300 series of 9 lens photographs showing the area was taken. It was furnished by the Alameda Naval Air Station. Also, a single lens contact print, 1:20,000 scale, No. 45 photographed by the War Department in 1945 was used in delineating part of the shoreline adjacent to the Richmond Shipyards. The single lens photographs were used to the utmost. It was necessary, however, to use the projector in transferring detail because both were of a different scale.

The 14000 series of 9 lens photographs does not show any of the shipyards. Quite a few cultural changes along the shoreline took place between Sept. of 1941 and June of 1943, but delineating the changes was difficult because only two photographs, 14031 and 14032, could be used, and they were taken quite some distance inland; putting the shoreline towards the outer extremities of the photographs. If photographs 6363 and 6365 had been of a more recent date, they would have been the more desirable photographs for compiling and delineating, since they are clear and of good scale and centered directly on the shoreline. They were quite useful, however, for picking points and making comparisons. Due to the numerous cultural changes that took place after 1941, it was difficult to find sufficient points common to the various photographs used.

Field inspection was not overly adequate but adequate enough for the photographs they used.
29 SUPPLEMENTAL DATA

A Property Map showing property owned by the Kaiser Company Inc. was used in conjunction with the single lens photograph of the Richmond Shipyards. It was quite helpful in delineating the area.

30 MEAN HIGH WATER LINE

The Mean H. W. L. has been shown according to field inspection notes.

31 LOW WATER AND SHOAL LINES

Inapplicable since none were recovered by the field inspector.

32 DETAILS OFFSHORE FROM THE HIGH WATER LINE

Inapplicable

33 WHARVES AND SHORELINE STRUCTURES

Outside of the Richmond Shipyard Area there are but few shoreline structures and wharves. Those shown on the photographs have been delineated as indicated.

34 LANDMARKS AND AIDS TO NAVIGATION.

All landmarks and aids to navigation, recovered by field party have been listed on form No. 567 and made a part of this report.

35 HYDROGRAPHIC CONTROL

Instructions to field party, dated February 8, 1944, state that no hydrographic stations need be selected by them for this project.

36 LANDING FIELDS AND AERONAUTICAL AIDS

Inapplicable.

37 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

Comparisons were made with two quadrangles done by the Corps of Engineers, U. S. Army. Survey on the earlier one was made in 1892-94. A cultural revision was made in 1914. The sheet is quite old and a fair amount of change has taken place; the Richmond Shipyards in particular. The latest quadrangle was prepared in 1941 and is pretty well up to the date of the photographs. The shoreline in general shows little change. It is impossible to make a detailed comparison since the scale is 1:62,500, while the map manuscript is on a scale of 1:10,000.
45 COMPARISON WITH NAUTICAL CHARTS.

Chart No. 5532 published by the U. S. C. & G. S. bearing a print date of 8 Dec. 1943 was used for comparison. The shoreline in general compares favorably.

Respectfully submitted,

Richard A. Rebe
Engineering Draftsman

Approved and Forwarded:

Chief of Party
DIVISION OF PHOTOGRAMMETRY

Review of
Shoreline Map Manuscript T-5927 (S \(\frac{1}{2}\))
(The N \(\frac{1}{2}\) is not delineated, since no shoreline is present)
San Francisco Bay -- Point Richmond

Subject headings not used in this review report are not applicable or have been adequately covered in the descriptive report.

26. CONTROL

Two triangulation stations fall within the projection limits of this map, but both of them are outside of the delineated area (shoreline).

Pullman Shop Black Stack, 1921
Jarge, 1944

Of the four bench marks within the area of the whole map area, only one falls within the delineated area of this shoreline drawing: (fm. 524)

B.M. 1, 1932, Point Isabel. r. 1944 (fm. 524)

Three landmarks are within the area of the S \(\frac{1}{2}\): (fm 567)

No. 212 Tank  Both fall within the delineated
No. 213 Stack  shorelines area and are on Cht 5532

Water Tank (Pullman Shops, elevated). Outside of the delineated area and not on chart 5532

28. DELINEATION

Changes made during review are shown in red acid ink

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC MAPS

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T-399</td>
<td>1/10000</td>
<td>1853</td>
<td>T-2940</td>
<td>1/10000</td>
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<tr>
<td>1622</td>
<td>&quot;</td>
<td>1881</td>
<td>2941</td>
<td>&quot;</td>
</tr>
<tr>
<td>2245</td>
<td>&quot;</td>
<td>1895</td>
<td>3653</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

The present survey supersedes the old surveys in all planimetric and shoreline detail.

44. COMPARISON WITH EXISTING QUADRANGLES

See Compilation Report

45. COMPARISON WITH NAUTICAL CHARTS

<p>| | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>5532</td>
<td>1/40000</td>
<td>July 1947</td>
</tr>
</tbody>
</table>

General agreement of form of shoreline, but character differs. On T-5927 the shoreline from north of Point Fleming to Stege is an indefinite line rather than a fast-land line. There are new docks at Point Fleming, and a concrete sewer is a prominent feature along the south side of Point Isabel... The areas of fill are larger than on the chart.
The map manuscript had been applied to Chart 5532 prior to review.

Reviewed by

Under the direction of

Lena T. Stevens, 26 April, 1948
Chief, Review Section

APPROVED BY:

Technical assistant to the Chief, Div. of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Chief, Div. of Coastal Surveys

This map manuscript was reviewed in Sept. 1946, but report was written in April 1948.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by M. F. Rawley, Photogrammetric Aid.

<table>
<thead>
<tr>
<th>STATE</th>
<th>California</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>DATE OF LOCATION</th>
<th>DATE OF SURVEY</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Tank</td>
<td>Aluminum Water Tank</td>
<td>N. A.</td>
<td>37 54</td>
<td>1158</td>
<td>122 19</td>
<td>1350</td>
<td>1927</td>
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<tr>
<td></td>
<td>Stack</td>
<td>Fullman Shop</td>
<td></td>
<td>37 54</td>
<td>1455</td>
<td>122 19</td>
<td>1072</td>
<td></td>
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<tr>
<td></td>
<td>* Tank (Flev.)</td>
<td>Wooden Water</td>
<td></td>
<td>37 55</td>
<td>1209</td>
<td>122 20</td>
<td>145</td>
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<td></td>
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</tbody>
</table>

* No. 3 is outside of delineated area.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
## Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>9/22/48</td>
<td>5532</td>
<td>Richardson</td>
<td>Before After Verification and Review examined for Critical Corrections</td>
</tr>
<tr>
<td>2/19/54</td>
<td>5532</td>
<td>Stevens</td>
<td>Before After Verification and Review Reconstructed</td>
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</table>

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.
## Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>2/9/48</td>
<td>5532</td>
<td>Richardson</td>
<td>Before After Verification and Review Examined for Critical Changes</td>
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</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>Cerrito Creek*</td>
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<td>Stege</td>
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<td>* - Decis. of BGN</td>
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</table>

Underlined names approved.
A.L.

M 234