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Form 504	7
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
Director	
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State: California	
DESCRIPTIVE REPORT	<del></del>
Topographic Sheet No. 4438	<del></del>
Hydrographia Sheet No. 4400	
LOCALITY	
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San Francisco Bay	<del>,</del>
City of Richmond Harbor	<del>)-</del>
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CHIEF OF PARTY	
T.J.Maher	<u></u>
CONSTRUCTOR PROPERTY	

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C. C.G. SURVEY
L. & A

BUN 87 1929

Acc. Mo

#### DESCRIPTIVE REPORT

#### To Accompany

Topographic Sheet "C". 4438

#### Instructions:

This survey was made under the Inspector's orders of

#### Extent:

This sheet covers the Harbor of the City of Richmond, San Francisco Bay.

#### Purpose:

To note and locate the changes which have been made and which are in progress in the improvement of this harbor.

#### Method of Survey:

Two triangulation signals were established and located with a 4" theodolite. Theog together with existing triangulation, controlled the survey which was done by plane table and stadia. The method of control was chiefly by 3 point positions and resection; only one short traverse being run along the road from Point Petrero to a point near the junction of Cutting Boulevard and Wine Street. This was slightly over a mile and closed with a 5 meter error which was adjusted.

#### Landmarks :

The several aids to navigation which were located, appear on the present chart. Several objects appearing in the water area, not of a permanent nature, were located. These consist of flags for guidances in dredging operations, and slender scantlings, called sticks on topographic sheet, apparently put down by fishermen for their own guidance.

#### Changes Noted:

The pier just south of the brickworks plant shown on

existing chart Lat. 37°- 54'(1280 m) Long. 122°- 22' (1100 m) has been removed. Rocks used in bracing this former structure now form a high water island at this point.

A pier has been added just east of the Richmond pier building. The dolphins located in prolongation of the pier are of a permanent nature and should be charted.

A dike has been thrown across the shallow water bight just south of the tank farm. The area enclosed is to be filled.

The Santa Fe ferry slips and piers just west of the Richmong pier were examined and found to be as shown on the existing chart.

Other features are as shown.

No attempt was made to locate the low water line, as this would necessitate sounding.

#### Statistics:

Area, Square Statute miles ---- 3.5 Miles shoreline - Statute ----7.5 Miles roads-Statute

Geo. a. Milson Togrographu

The plan and dancter The survey conforme to the · Samuel requirements. No specific instructions were issued. The junctions with the previous surveys are adjuste. no additional surveying so required. E. P. Ecci.

-2-

July, 1930



4438

## LIST OF PLANE TABLE POSITIONS (NA datum)

	Lat.	dm	Long.	ф
Chimney of house	3 <b>7-</b> 55	932	122-21	1052
Derrick on Building of Richmond Navigation & Implement Co.	37-55	781	122-21	1448
E. Gable House	37-55	544	122-21	14 56
Telephone Post on Hillside	37-55	170	122-22	1097
Red, White & Blue Post	37-54	1618	122-22	789
Brick Works Stack (higher)	37-54	1372	122-22	1050
" " (lower)	37-54	1403	122-22	1042
W. Gable S.F. Bridge Co. Bldg.	3 7-54	1813	122-21	1349
Outer dolphin -Richmond Pier	37-54	803	122-23	147
Innder dolphin (center) Richmond Pier.	37-54	84.5	122-23	140
Beacon F "3"	37-54	729	122-23	65
Beacon F R "2"	37-54 37-54	477 523	122-21	12 889
Echo Board	37 <del>-54</del>	34.9	122-21	941

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

C. & G. SURVEY L. & A. JUN 27 1929 Acc. No.

REG. NO.

# 4438

### 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 LetterC			
REGISTER NO. $4438^3$			
State <u>California</u>			
General locality San Francisco Bay			
Locality Gisport Richmond Harbor			
Scale 1/10,000 Date of Survey June , 1929			
Vessel San Francisco ≱ield Station			
Chief of Party T.J. Maher			
Surveyed by			
Inked by G.A.N.			
Heights in feet above to ground to tops of trees			
Contour Approximate contour-Form-line-interval feet			
Instructions dated Inspector's oral instructions of May 929			
Remarks: Landment Shut field with me State			
U. S. GOVERNMENT DERIVATION OFFICE, 1825			