

# 5938

Diag. Cht. No. 5502

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Air Photo Compilation

Field No. \_\_\_\_\_ Office No. T-5938

### LOCALITY

State California

General locality Napa

Locality Napa River

1941-'42

### CHIEF OF PARTY

E.H.Pagenhart, Chief of Party

K.G.Crosby, Tampa Photo. Office

### LIBRARY & ARCHIVES

DATE Dec 22-1949

## DATA RECORD

T- 5938

Quadrangle (II):

Project No. (II): CS 262 A

Field Office:

Chief of Party:

San Francisco, Calif.

E. H. Pagenhart

Compilation Office:

Chief of Party:

Tampa, Fla.

K. G. Crosby

Instructions dated (II III):

9/4/41

Copy filed in *Division of*  
~~Descriptive~~  
~~Report No. T- (VI)-~~  
*Photogrammetry Office Files.*

Completed survey received in office: 12-3-43

Reported to Nautical Chart Section: Dec. 1943

Reviewed: 10-26-48 Applied to chart No. 5533 Date: 2-7-47

Redrafting Completed: 9-14-49

Registered: 12-12-49

Published: 12-1-49

Compilation Scale: 1:10,000

Published Scale: 1:10,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): *M.H.W.*  
~~M.S.L.~~  
 Dotted line represents plane of Mean Lower Low Water

Reference Station (III): State Hospital Main Tower, 1922

Lat.:

Long.:

Adjusted

38°16'41.376" (1275.75m) 122°15'58.477" (1421.34m) ~~Unadjusted~~

State Plane Coordinates (VI): *California 2nd & 3rd Zones*

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
6471	9/3/41	3:41	1:10,000	4.0'
6472	9/3/41	3:42	"	4.0'
6474	9/3/41	3:48	"	3.9'
6475	9/3/41	3:50	"	3.9'
6476	9/3/41	3:51	"	3.9'
5578	5/18/41	1:22	"	0.7'

Tide from (III): Napa, Napa River

Mean Range: 5.5'

Spring Range: 7.1' (Diurnal)

Camera: (Kind or source) U. S. C. & G. S. - 9 lens (8 $\frac{1}{4}$ " focal length)

Field Inspection by: <sup>E. H. Pagenhart, Sup.</sup>  
Ensign L.F. Woodcock

date: May 1942

Field Edit by: *None*

date:

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

Projection and Grids ruled by (III) Washington <sup>office</sup> date: Apr. 1943

" " " checked by: Washington office date: " "

Control plotted by: John L. White, Prin. Photo. Aid date: 4-17-43

Control checked by: Rudolph Dossett, " " " date: 4-19-43

Radial Plot by: Tampa Office Personnel

date: 5/19 to 5/29,  
1943

Detailed by: Oscar M. Rivera, Sr. Photo. Aid

date: June-Nov. 1943

Reviewed in compilation office by: Frank H. Elrod, date: Nov. 1943  
Prin. Photo. Aid.

<sup>Manuscript</sup>  
Elevations on ~~Field Edit Sheet~~  
checked by: *None*

date:

### STATISTICS (III)

Land Area (Sq. Statute Miles): 17.58 mi.

Shoreline (More than 200 meters to opposite shore): 0

Shoreline (Less than 200 meters to opposite shore): 15.33

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: 11

Leveling (to control contours) - miles:

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:

SCALE FACTOR

1 FT. "3048006 METER	DATE	CHECKED BY:	DATE	M - 2
COMPUTED BY:				

## Field Inspection

Field inspection for the area of  
T-5938 is covered in the Field Inspection  
Report, San Pablo Bay Area by E. H. Pagenhart.  
This report is filed in the Division of  
Photogrammetry General Files.

DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET T-5938

CONTROL

Six triangulation stations appear within the detailing limits of this sheet. Two of these -- Suscol, 1922 and Home, 1922 - have field inspection points established, as the stations could not be identified on the photographs. All the control points were held in cutting in additional radial points.

Several control points fall outside the detailing limits of the sheet, but on the acetate, and were held in establishing additional radial points on the south part of the sheet.

MAIN RADIAL PLOT

A discussion of the main radial plot has been made a part of the Descriptive Report for sheet T-5934.

After the main radial plot had been run a metal template to correct paper distortion was received and it was decided to make templates using this distortion corrector. All additional radial points, therefore, were established by this method. Good intersections were obtained.

DETAILING

The photographs used in detailing this sheet were clear, and of reasonably good scale. No unusual difficulty was experienced in delineating vegetation, shoreline, etc.

Photograph 5578 was taken May 18, 1941, at low water and was used to determine the low water line in the Napa River. Photos. 6471 - 6476, incl., were taken at a later date - Sept. 3, 1941 - and were used to detail the remainder of the sheet.

Field inspection in general was fair, but not thorough,

A number of roads leading to the waterfront and to ranch settlements were classified as 3rd class by the field inspector. In some cases it is believed these should be 2nd class roads and where the evidence was strong enough they have been shown as 2nd. class on this compilation.

SUPPLEMENTAL DATA

The War Department, Corps of Engineers, U. S. Army, 1942, Sonoma Quadrangle, the Coast and Geodetic Survey, San Pablo Bay nautical chart No. 5533, and the General Highway Map of Napa County, were used to supplement field inspection.

### LANDMARKS AND AIDS TO NAVIGATION

One uncharted landmark appears on the sheet and has been listed on Form 567, which is made a part of this report.

There are no aids to navigation.

### HYDROGRAPHIC CONTROL

There are ~~4~~ unmarked H. & T. stations, located by the radial plot, appearing on this sheet. These stations are listed at the bottom of the sheet. Also, they are listed in Ensign Lorin F. Woodcock's field inspection report of the San Pablo Bay area.

### GEOGRAPHIC NAMES

Only those geographic names considered so well established as to be correct beyond question are shown on this sheet. This was done in accordance with a letter from the Acting Director dated Dec. 2, 1942, Ref. P.F.A. 1990.

*See list of approved names attached.*

### COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with the War Department, Corps of Engineers, U. S. Army, 1942, Sonoma Quadrangle. A number of streets appear in the northeastern part of the City of Napa that are not shown on the quadrangle map, but are shown on this compilation. A visual comparison indicates that other features are in good agreement.

### COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Coast and Geodetic Survey, West Coast, Nautical Chart No. 5533. The race track shown on the nautical chart of approximate Lat.  $38^{\circ}17'$ , Long.  $122^{\circ}17'$ , does not exist. There is one, however, shown on this compilation at approximate Lat.  $38^{\circ}17.8'$ , Long.  $122^{\circ}16.6'$ .

The S.P.R.R. shown on the nautical chart as ending in the vicinity of Horseshoe Bend is in fact now abandoned, but is shown on this compilation as extending northward to the limits of the sheet at Lat.  $38^{\circ}18.7'$  (approx.).

It is recommended that this compilation supercede the present charted information.

*on Nautical 5533  
Omit railroad & not on Napa Quad now  
Littings Wharf quad. S.M.A. 9-17-54*

Respectfully submitted,

Forwarded:

*Kenneth G. Crosby*  
Kenneth G. Crosby,  
Chief of Party...

Oscar M. Rivera, *9c*  
Sr. Photo. Aid.

U. S. GOVERNMENT PRINTING OFFICE 16-27869-7

# GEOGRAPHIC NAMES

Survey No.

Name on Survey	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	
	A	B	C	D	E	F	G	H	K
• <u>Napa</u>									1
• <u>Napa River*</u>									2
• <u>State Highway #12 &amp; #14</u>			37						3
• <u>Imola</u>									4
• <u>Southern Pacific R.R.</u>									5
• <u>State Highway #12 &amp; 29</u>									6
• <u>Calistoga Railway</u>									7
• <u>Aylm Slough</u>									8
• <u>Suscol</u>									9
• <u>Suscol Creek</u>									10
• <u>Thompson</u>									11
• <u>Horseshoe Bend</u>									12
• <u>Stanley</u>									13
• <u>Rato Landing</u>									14
• <u>Home Hill</u>									15
• <u>Carneros Creek</u>									16
• <u>California*</u>			(for title)						17
• <u>San Francisco and Napa Valley</u>			(Napa Junction to Mare Island)						18
			* - Decis. of BEN						19
• <u>Rocktram</u>									20
• <u>Napa State Hospital for the Insane</u>									21
• <u>Napa County Fair Grounds</u>									22
• <u>Napa Creek</u>									23
									24
									25
									26
									27

DIVISION OF PHOTOGRAMMETRY  
Review Report of "  
Planimetric Map Manuscript T-5938

Subject numbers not used in this report have been adequately covered in other parts of the Descriptive Report.

26 Control

All triangulation stations falling within the limits of the map manuscript are listed on form M-2388-12, attached to this Descriptive Report. (Stations underlined in red were added during review). The following two triangulation stations: PROMINENT BLACK TANK, 1922 and RATTO'S BARN, CUPOLA, 1922 have been reported as destroyed. (See Supplement to Descriptions of Triangulation Stations No. 410, page 11) They do not appear on the map manuscript.

28 Detailing

Minor corrections and additions were necessary to complete the detailing of the map manuscript.

44 Comparison with Existing Topographic Surveys

T-777	1:10,000	1858
T-4020	1:10,000	1922

These surveys are superseded by T-5938 in all common areas except for contours *for nautical charting purposes.*

45 Comparison with Nautical Charts

5533	1:40,000	1940 (48 - 3/8)
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51 Application to Nautical Charts

This map manuscript has not been applied to Nautical Chart 5533 as of the date of this review report.

*This map area is unclassified.*

Reviewed by:

Under the direction of:

*J. J. Streifley*  
J. J. Streifley 26 Oct. 1948

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

Approved by:

B. J. Jones 12/49  
Technical Asst. to Chief,  
Division of Photogrammetry

O. S. Reading  
W. T. Adams, Chief,  
Division of Photogrammetry

H. R. Edmonston  
Chief, Nautical Chart Branch  
Division of Charts

W. M. Scaife  
Chief, Division of Coastal  
Surveys *WMS*

## NAUTICAL CHARTS BRANCH

SURVEY NO. T5938

### 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.