

5950

Diag'd. on Diag. Ch. No. 5534

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. CS-262-A Office No. T-5950

LOCALITY

State California

General locality Suisun Bay - Suisun Slough

Locality Fairfield and Vicinity

194 1

CHIEF OF PARTY

L.D.Graham

LIBRARY & ARCHIVES

DATE

Sept 28 - 1949

6-1870-1 (1)

5950

DATA RECORD

T-5950

Quadrangle (II):

Project No. (II): CS-2624

Field Office: San Francisco, Calif Chief of Party: L. D. Graham

Compilation Office: Tampa, Fla. Chief of Party: K. G. Crosby

Instructions dated (II III): Sept. 4, 1941 Copy filed in ^{Division of} Descriptive
 Report No. T-~~(VI)~~
 Photogrammetry Office Files

Completed survey received in office: 21 June, 1943

Reported to Nautical Chart Section: 6/28/43

Reviewed: 29 June, 1948 Applied to chart No. 3534 Date: July-Aug. 1943

Redrafting Completed: 12/6/48

Registered: 9/14/49

Published: 3/15/49

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.S. ^{H.W.} ~~W.T.~~

Reference Station (III): Fairfield Muni. W.T. 1932

Lat.: 38° 14' 48".104 (1483.19m) Long.: 122° 03' 05".082 (123.57m) Adjusted
~~unadjusted~~

State Plane Coordinates (VI): 2nd Zone, California

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
6342	9/3/41	12:00M	1:10,000	± 3.8
6347	"	12:06	"	± 3.9
6348	"	12:07	"	± 3.9
6349	5/18/41	12:42	"	+ 2.1
5580	"	12:43	"	+ 2.1
5568	"	1:02	"	+ 1.7
5569	"	1:03	"	+ 1.7
5570	"	1:04	"	+ 1.7
6358	9/3/41	12:18	"	+ 4.1
5535	5/18/41	1:13	"	+ 4.7
5576	"	1:14	"	+ 4.7

Tide from (III): Suisun, Suisun Slough (Ref. Stations; San Francisco, Calif.)

Mean Range: 5.0 feet Spring Range: 6.4' (diurnal)

Camera: (Kind or source) U.S.C. & G.S., 9 lens

Field Inspection by: " Lieut. (J.G.) Walter Choyan
" William Russell date: 1941

Field Edit by: *None* date:

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

Projection and Grids ruled by (III) C.H.R. Wash Office date: 12/2/42

" " checked by: W.D.H. " date: 12/2/42

Control plotted by: Rudolph Dossett, Tampa, office date: 12/8/42

Control checked by: P. H. Gill, " date: 12/8/42

Radial Plot by: Tampa Office Personnel date: 12/19/42

Detailed by: Rudolph Dossett, Prin. Photo. Aid date: Jan & Feb., 1943

Reviewed in compilation office by: Frank H. Elrod & W. H. Shearouse date: May & June, 1943
Sr. Photo. Aid and Asst. Photo. Engr., respectively.

~~Elevations on Field Edit Sheet~~
checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 33.3

Shoreline (More than 200 meters to opposite shore): 3.5

Shoreline (Less than 200 meters to opposite shore): 59.1

Number of Recoverable Topographic Stations established: 4

Number of Temporary Hydrographic Stations located by radial plot: 15

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:

Field Inspection

The field inspection for the area of T-5950 is covered in the Field Inspection Report, Suisun Bay Area, California by W. C. Russell and is filed in the Division of Photogrammetry general files.

Red Windmill	1922	Grizzley Is Barn, w. gable	1922
Yellow Tank	"	Motetzuma Slough, S. In Tower "	"
Suisun Hill 2	"	" " " "	"
Suisun S. Ft. Tow.	1942	Fairfield Delmonte Mt	1932
Topog. (Fm. 524)		" Muni. Mt	"
BM F-124	1932	Makoneys Barn, w. gable	1922
G-129	1932	Suisun Slough, E Power Pile,	"
F-191	1935		
Q-585	1939		

There was adequate control on this sheet to insure a good radial plot. There are twelve triangulation stations. Eleven of these stations could be held. Triangulation Station "Small Red Tank, 1922" was incorrectly identified in the field and due to a discrepancy of approximately 250 meters between the plotted position and the position as identified in the field it was not used in the Main Radial Plot nor in the establishment of additional radial points by the draftsman. It has been plotted on the sheet in its true Geographical positions. The field inspector notes that the position as identified in the field is doubtful; but is the only tank to be found in that vicinity.

See Review Report attached hereto.

Discussion of the radial plot which includes this sheet has been made a part of the descriptive report for sheet T-5946.

Dec. Report filed in Bureau Archives

The detailing of this sheet has been done according to the current instructions for this project.
Field inspection was adequate.

The photographs used in detailing were generally clear and of reasonably good scale. Various degrees of errors, due to paper distortion, were found in a majority of the photographs. The degree of errors varied from zero to as much as 25 meters. By using the metal template method proportional corrections were made for radial line intersections, then the radial points, topographic and hydrographic stations established by radial line intersection were checked and corrected.

The only supplemental data available was the "General Highway Map" of Solano County California, published by Bureau of Public Roads, United States Agriculture Department. This map was used to check highway names and numbers.

34. LANDMARKS AND AIDS TO NAVIGATION

No landmarks or aids to Navigation appear within the limits of this sheet.

35. HYDROGRAPHIC CONTROL

A description of hydrographic control for this area, including unmarked stations, is listed in the "Field Inspection Report" for Suisun Bay Area, made in 1941 by L. D. Graham, Lieutenant Commander, U. S. C. & G. S.

Filed in Div. of Photogram. Gen. Files under CS-262 "Sp'l. Repts."

Nos.
53 80
54 81
71 82
72 83
73 84
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75 86
76 87
77 88
78 89
79 90

37. 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 December 2, 1942, reference 28-PFA-1990.

See attached list approved by L. Heale, Geographic Names Section Div. of Charts.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with the United States War Department's Corps of Engineers' "Carquinez Quadrangle". In general the detail was found in good agreement, but due to the scale difference only a visual comparison was made.

45. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Coast and Geodetic Survey, West Coast Nautical Chart No. 5534, printed August 12, 1942 (scale 1:40,000). The scale difference was too great for a thorough comparison, but no large disagreements were noted in the detail. This compilation, however, supersedes the charted information.

Respectfully submitted

Rudolph Possett
Rudolph Possett
Prin. Photo. Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby,
Lieut. Comdr.

GEOGRAPHIC NAMES

Survey No.

T-5950

#1

Name on Survey

On Chart
No.On previous survey
No.On U. S. quadrangle
MapsFrom 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

California

USGB

1

Southern Pacific

(recommend omitting branch line names)

2

Sacramento Northern

3

U.S. No. 40

4

State No. 12

5

Suisun Bay

(for title only)

6

Montezuma Slough

USGB

7

Grizzly Island

8

Suisun Slough

USGB

9

Joice Island

"

10

Volanti Slough

11

Cutoff Slough

12

Spring Branch

13

Potrero Hills

14

Goat Island

15

Rush Landing

(locality name)

16

Deadman Island

17

McCoy Slough

18

Hill Slough

19

Duck Slough

20

Little Duck Slough

21

Suisun City

22

Fairfield

23

Ledgewood Creek

24

Subeet

25

Peytonia Slough

26

Sheldrake Slough

27

M 234

GEOGRAPHIC NAMES

Survey No. **T-5950**

#2

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

Jacksnipe Station ✓

(in current Railway Guide)

1

Wells Slough ✓

2

Pelfier Slough ✓

3

Twin Sloughs ✓

4

Teal ✓

(in current Railway Guide)

5

Frank Horan Slough ✓

6

Cordelia Slough ✓

7

Russell ✓

8

Boynton Slough ✓

9

Names underlined in red are approved.. 6/29/48 L. Heck

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Division of Photogrammetry
Review Report of
Planimetric Map Manuscript T-5950

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

26 Control

The geographic position of the horizontal control station Small Red Tank, 1922, does not agree with the radially plotted position of the red tank as located on the photographs by field inspection. The geographic position of the tank places it in a marsh, east of the railway. The recovered tank, cut-in from the photographs, falls about 320 meters north and 32 meters west of the plotted position, and on the west side of the railway.

The Division of Geodesy has been informed of the discrepancy between the intersection station Small Red Tank and the cut-in position of the recovered tank.

A form 524 card, description of recoverable topographic station, is being submitted and the station, *Small Red Tank* is shown on the map manuscript with the conventional topographic station symbol.

28 Detailing

Three power line towers south of Suisun City, clearly visible on the photographs, were added to the map manuscript. Additions were made to the drainage to complete the stream patterns.

43 Comparison with Previous Surveys.

T-1972	1:10,000	1888
T-1973	1:10,000	1888

These planimetric maps are superseded, *for charting purposes* by the map manuscript in all common areas.

44 Comparison with Existing Topographic Quadrangles.

Carquinez,	U. S. E.	1:62,500	1942
Mt. Vaca,	U. S. E.	1:62,500	1942

A greater number of secondary roads appear on the manuscript than have been shown on the U.S.E. quadrangles. The map manuscript supersedes the quadrangles in all common features in all common areas.

45 Comparison with Nautical Charts

Chart No. 5534 1:40,000 Mar. 1948

The map manuscript does not show the new channel south of Suisun City, which forms a more direct passage from the mouth of Peytonia Slough to Suisun City.

46 Application to Nautical Charts

This map manuscript was applied to chart No. 5534
in July-August, 1943.

Reviewed by:

Reviewed under direction of:

Lena T. Stevens
Lena T. Stevens 24 June, 1948
Cartographer (Photogrammetrist)

S. V. Griffith
S. V. Griffith
Chief, Review Section

Approved by:

B. J. Jones 8/49
Technical Assistant to the
Chief, Div. of Photogrammetry

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

K. T. Adams
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys