

4899

Diag. Chart No. 5530-4

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

....., Director



State: California.....

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 4899  
Hydrographic }

LOCALITY

San Francisco Bay

San Leandro Bay

1929

CHIEF OF PARTY

T.J. Maher

GOVERNMENT PRINTING OFFICE

4899

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NO.1  
OF SAN LEANDRO BAY, SAN FRANCISCO BAY, SAN FRANCISCO, CALIF.

INSTRUCTIONS.

Instructions for this survey were issued by the Inspector,  
San Francisco Field Station April 8, 1929.

PURPOSE.

The purpose of this survey was to determine the low water  
line in San Leandro Bay. Soundings taken in channels are subject to  
change due to the operations of dredges that are now functioning.

CONTROL.

Signals used on this survey were located by topography with  
the exception of the signals in the channel leading to the High Str.  
Bridge which were located by the hydrographic party by taking a  
three point fix on signals located by triangulation and topography.

METHOD OF SURVEY.

All soundings were taken with the hand lead and sounding pole.  
A whaleboat was used and the complement consisted of men from the  
Str. Pioneer. The complement consisted of four oarsmen, one leadsman,  
and 1 tide observer.

All soundings are plotted in feet and were reduced to MLLW = 1.8'

Tide staff was located at Bay Farm Bridge.

Respectfully submitted,

*Augustus P. Ratti*

H. and G. E. U.S. Coast & Geodetic Survey.

*Approved  
J. Baker*

STATISTICS SHEET NO. 1

Date, 1929.	Letter	Vol- ume	Posi- tions.	Sound- ings.	Miles, Statute.	Vessels.
April 9	a	1	52	365	6	Whaleboat
" 10	b	1	<u>64</u>	<u>604</u>	<u>6.5</u>	"
<del>Total</del>			<del>116</del>	<del>969</del>	<del>12.5</del>	
<i>April 19</i>	<i>c</i>	<i>1</i>	<u><i>56</i></u>	<u><i>537</i></u>	<u><i>2.3</i></u>	"
<i>Total</i>			<i>172</i>	<i>1506</i>	<i>14.8</i>	

June 28, 1929.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET 4899

Locality: San Francisco Bay (San Leandro Bay)

Chief of Party: T. J. Maher in 1929  
Plane of reference is mean lower low water, reading  
1.8 ft. on tide staff at Bay Farm Bridge  
~~1.8 ft. below P. M.~~

Condition of records satisfactory except as checked below:

- 1.. Locality and sublocality of survey omitted.
- 2.. Month and day of month omitted.
- 3.. Time meridian not given at beginning of day's work.
- 4.. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5.. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6.. Leadline correction entered in wrong column.
- 7.. Field reductions entered in "Office" column.
- 8.. Location of tide gauge not given at beginning of day's work.
- 9.. Leadline corrections not clearly stated.
- 10.. Kind of sounding tube used not stated.
- 11.. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12.. Legibility of record could be improved.
- 13.. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

JULY-17-1929.

## REPORT ON SHEET No. H-4899

C. OF P. — T. J. Maher  
PROJECTED BY — G. A. Nelson  
VER & INKED BY — W. H. Bamford

SURVEYED IN APRIL 1929  
SURVEYED BY — A. P. Ratti  
SOUNDINGS PLOTTED BY — G. A. Nelson

- 1/ The records were found to conform to the requirements of the General Instructions.
- 2/ The plan and character of development fulfill the requirements of the General Instructions.
- 3/ The plan and extent of development satisfies the specific instructions.
- 4/ The sounding line crossings were adequate except between positions 27-b and 30-b — this line looks to be misplaced —
- 5/ It was possible to draw the usual depth curves completely —
- 6/ The field plotting was completed to the extent prescribed in the General Instructions.
- 7/ The spacing of the soundings was rather poor — and a lot of them had to be respaced by the office draftsman.

REPORT ON H-4899 CONTD.

8/ There are no contemporary surveys in this locality

9/ The sheet was very clean and the soundings were well penciled and legible although not well spaced in places. The name of the bay in which this work was done - was omitted and had to be put on by the office draftsman.

Respectfully submitted

Walter H. Crawford

Section of Field Records  
Report on Hyd. Sheet No 4899  
San Leandro Bay, California  
Surveyed in 1929

Instructions from San Francisco Field Station, Apr. 8, 1929.

Chief of Party - T. J. Maher

Surveyed by - A. P. Ratti

Protracted and plotted by - G. A. Nelson

Verified and inked by - H. H. Bamford

1. The records conform to the requirements.
  2. The plan and character of development conform to the requirements of the General Instructions.
  3. The specific instructions were issued by the Inspector at the San Francisco Field Station and are not available. It is thought that
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they have been complied with as the survey was for the purpose of determining the low water line. Depths in the channel are subject to change due to dredging operations.

4. The soundings cross fairly well.

5. The information is sufficient for drawing the usual depth curves fairly completely.

6. There are no junctions with contemporary sheets. Comparison with the work of 1920, H. 4137, shows considerable change.

7. The usual amount of field plotting was done but the soundings were not well spaced.

8. No additional work should be done until dredging is completed.

Reviewed by R. L. Johnston

July 22, 1929.

A. M. Bohieralski

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY  
L. & A.  
MAY 15 1929  
Acc. No.

HYDROGRAPHIC TITLE SHEET

REG. NO. 4899

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 1

REGISTER NO. 4899

State California

General locality San Francisco Bay

Locality San Leandro Bay

Scale 1-10,000 Date of survey April 9, 1929, 1929

Vessel San Francisco Field Station

Chief of Party T.J. Maher

Surveyed by A.P. Ratti

Protracted by G.A.N.

Soundings penciled by G.A.N.

Soundings in ~~fathoms~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by Warren H. Bamford

Verified by Warren H. Bamford

Instructions dated \_\_\_\_\_, 19

Remarks: Inspector's instructions of March, 1929

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4899

The following statistics will be submitted with the  
cartographer's report on the sheet:

Number of positions on sheet .172. .  
Number of positions checked .59. .  
Number of positions revised .14. .  
Number of soundings recorded .1506. .  
Number of soundings revised .252. .  
Number of signals erroneously  
plotted or transferred . . 0 . . . .

Date: July 17 - 1929  
Cartographer: Warner H. Crawford