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Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

....., Director

State: California

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 4596a  
Hydrographic }

LOCALITY

San Francisco Bay

S. Side of Goat Island

1926

CHIEF OF PARTY

P. C. Whitney

GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 45962

HYDROGRAPHIC TITLE SHEET

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. ....

REGISTER NO. 45962

State.....CALIFORNIA.....

General locality.....SAN FRANCISCO BAY.....

Locality.....S. SIDE GOAT ISLAND.....

Scale 1:20,000..... Date of survey.....December 27-28....., 192 6

Vessel.....Hired Launch.....

Chief of Party.....Paul C. Whitney.....

Surveyed by.....Chas. K. Green.....

Protracted by.....Walter J. Chovan.....

Soundings penciled by.....Walter J. Chovan.....

Soundings in ~~FOATHOMS~~ feet

Plane of reference.....Mean Lower Low Water.....

Subdivision of wire dragged areas by.....

Inked by.....

Verified by.....

Instructions dated.....July 2....., 192 6

Remarks:.....

g r o

Attached.

Descriptive report  
Statistics.

D E S C R I P T I V E      R E P O R T

To accompany hydrographic  
Revision off Goat Island, San Francisco,  
California.

The area immediately southwest of Goat Island, as outlined in red on the attached photostat of sheet No. 7928, was sounded out in accordance with instructions of July 2, 1926. With the exception of the inshore line, the launch stopped and backed for each sounding, and a position taken as the lead reached bottom. The leadsman was carefully checked by the hydrographer for up and down casts and correct readings.

Soundings are plotted in feet, and reduced to mean lower low water. The standard gauge at Presidio Wharf was used.

*Submitted by*  
*Chas. H. Sney*  
*Paul P. Whitney*

STATISTICS SOUNDINGS? SAN FRANCISCO BAY, CALIFORNIA.

<u>Date 1926.</u>	<u>Letter</u>	<u>Volume</u>	<u>Positions</u>	<u>Soundings</u>	<u>Miles Statute.</u>
Dec. 27	a	1	136	143	7.7
Dec. 28	b	1	54	55	3.2
<hr/>					
Total	- - - - -	- - - - -	190	198	10.9

Soundings are plotted in feet.

Plane of reference, Mean Lower Low Water.

Standard tide gauge at Presidio Wharf was used. San Francisco, California.

February 28, 1927.

24  
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Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET 4596A

Locality: SAN FRANCISCO BAY

Chief of Party: P. C. Whitney

Plane of reference is M L L W

5.55 ft. on tide staff at Presidio.

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 each 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.

*G. H. Rude*

Chief, Division of Tides and Currents.

Report on the Verification of H. 4596a

Locality:— San Francisco Bay,  
South Side of Goat Island

Chief of Party:— Paul C Whitney

Date:— Dec. 27, 28, 1926.

Scale:— 1:20,000

The records and notes are clear and complete, and the protracting accurately executed.

The development appears to be sufficient as no particular indications of shoals were discovered.

The sheet is clean and legible while the drafting conforms to the General Instructions for field work.

John C MacKee.

Cartographic Draftsman.

4/6, '27.

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 25, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4596<sup>a</sup>

Vicinity of Goat Island, San Francisco Bay, Calif.

Surveyed in 1926

Instructions dated July 2, 1926 (San Francisco Field Station)

Chief of Party, P. C. Whitney.

Surveyed by Chas. K. Green.

Protracted and soundings plotted by W. C. Chovan.

Verified and inked by J. C. MacNab.

1. This examination was made for the purpose of investigating a line of shoal soundings west of Goat Island from H. 3928 (Engle, 1920) as well as verifying the examination made by I. Rittenberg in 1926 (H. 3928).

This survey definitely disproves the existence of the shoal soundings and verifies the work of I. Rittenberg. The line of soundings from 30 B to 37 B inclusive from Engle's survey in 1920 has therefore been expunged from the sheet (H. 3928). The position numbers have been retained on the sheet, should the source of some of the shoal soundings charted on earlier editions of the chart be desired. No correction is necessary to the present charts since these soundings have already been omitted from the compilation. It is quite possible that on the 1920 survey confusion was caused by the use of the wireless tower (Wire) on the east side of the bay. There being a north tower (Nor) and a south tower (Wire) about 400 meters apart, it is possible that one was used at one time and the other at other times, but only one tower recorded. It was not considered advisable to attempt an adjustment of the line and since the area has been adequately covered the entire line was rejected.

2. The work on the present survey conforms to the General Instructions and the specific instructions. The records were well kept and the field plotting was excellent.
3. No additional work is required.
4. Reviewed by A. L. Shalowitz, April, 1927.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

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Form 504

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

....., Director

State: California

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**DESCRIPTIVE REPORT**

<del>Topographic</del> Hydrographic	Sheet No. <b>4596b</b>
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WIRE DRAG

LOCALITY

San Francisco Bay

Off Ferry Slips San Francisco

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1926

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CHIEF OF PARTY

P.C. Whitney

GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4596b

HYDROGRAPHIC TITLE SHEET

~~WIRE DRAG~~

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. ....

REGISTER NO. 4596b

State.....CALIFORNIA.....

General locality.....SAN FRANCISCO BAY.....

Locality.....OFF FERRY SLIPS.....

Scale.....1:20,000..... Date of survey.....December 24-28....., 1927

Vessel.....Hired Launch.....

Chief of Party.....Paul C. Whitney.....

Surveyed by.....Chas. K. Green.....

Protracted by.....Walter J. Chovan.....

Soundings penciled by.....Walter J. Chovan.....

Soundings in ~~fathoms~~ feet

Plane of reference.....Mean Lower Low Water.....

Subdivision of wire dragged areas by.....Walter J. Chovan.....

Inked by.....

Verified by.....A.L.S.....

Instructions dated.....July 2....., 1927

Remarks:.....

DESCRIPTIVE REPORT

To accompany Wire Drag Sheet off Ferry Slips, San Francisco, Calif.

Instructions of July 2, 1926.

The area around the 25 foot sounding shown on photostat 3928<sup>See Desc. Rep. 4596a</sup> (enclosed) was dragged to an effective depth of 33 feet. Constant traffic handicapped and limited the operation of the drag, although all the ferry Captains had been notified that the work would be done on that date, and were considerate in avoiding the buoys. In order to sufficiently cover the sounding, it was necessary to carry "N" buoy as close to the pier-head line as possible, as the strip 1A - 11A shows. N weight dragged in the soft mud at 2A - 3A, and therefore a second line 1B - 9B was swung around pier 3 to determine the eastern limit of the 33 foot curve. The area covered is shown on smooth sheet as ending at position 8b, as the drag<sup>drag</sup> began to touch bottom at this position. After the drag was aground (9B), soundings were taken around each of the drag buoys, and the shoalest sounding at each buoy recorded (positions 1b - 4b). Also soundings were taken between buoy 2 and "F" where the bight of the drag was aground (position 5b). The northern corner of the pier (No. 3, signal "Bob") was used in place of the end launch on line 1B - 9B, the towline being made fast to the piling at water level. Cuts were taken to "F" from "Bob" as the guide launch carried the drag around.

The guide launch side of the drag strip from 1A to 4A is shown only in pencil, as N weight was in the mud at 2A and 3A. The western limit of the dragged area at this point is therefore shown in ink by the position of the drag at 6B.

The soundings shown are not a shoal, but mark the edge of deeper water off shore. There is less water from the soundings shoreward.

The standard light drag was used, and depths were reduced to mean lower low water from the tides at the Presidio gauge, without correction.

Submitted by  
Chas. H. Green

Approved:  
Paul P. Whitney  
Chief of Party U.S.G.S.

STATISTICS, WIRE DRAG, SAN FRANCISCO BAY, CALIFORNIA.

<u>Date, 1926</u>	<u>Letter</u>	<u>Volume</u>	<u>Length of drag</u>	<u>Positions</u>	<u>Miles Statute</u>	<u>Soundings</u>
Dec. 24	a	1	1200	11	0.7	2
Dec. 28	b	1	700	9	0.5	6
<hr/>						
Total-	- - - - -	- - - - -	- - - - -	20	1.2	8

Drag depths are in feet.

Soundings are plotted in feet.

Plane of reference, Mean Lower Low Water.

Standard tide gauge at Presidio Wharf was used. San Francisco, California.

February 28, 1927.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET 4596B

Locality: San Francisco Bay.

Chief of Party: P. C. Whitney.  
Plane of reference is M L L W  
5.55 ft. on tide staff at Presidio.

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 each 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.



Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DFM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 27, 1927.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4596<sup>b</sup>

San Francisco Bay, California

Surveyed in 1926

Instructions dated July 2, 1926 (San Francisco Field Station)

Chief of Party, P. C. Whitney.

Surveyed by C. K. Green.

Protracted and inked by W. C. Chovan.

Soundings plotted by W. C. Chovan.

Verified by A. L. Shalowitz.

1. This survey was primarily a wire drag examination of the 25 foot sounding about 240 meters off Pier 3 (authority, H. 3928, Colbert). A 33 foot drag cleared the spot without grounding. Although no tests for lift were made and no correction applied to the depth of drag, it is safe to assume that the 25 foot sounding does not exist in the location shown on H. 3928. This is further borne out by the soundings obtained in this vicinity by I. Rittenberg in 1926 (plotted in blue on H. 3928). It is therefore recommended that this sounding be expunged from the sheet. No correction is necessary to the present charts since this sounding has already been omitted from the compilations.

The soundings obtained in the vicinity of Pier 3 show that the 30 foot curve extends about 150 meters off the outer face of the pier.

2. The work conforms to the General and specific instructions with the exception that no test for lift was made.
3. The protracting and plotting of the soundings were well done. The soundings, however, should not have been inked by the field party.

4. No additional work is necessary.
5. Reviewed by A. L. Shalowitz, April, 1927.

Approved:

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Chief, Section of Field Records (Charts)

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Chief, Section of Field Work (H. & T.)



Hydrography by CL Garner  
1925 plotted in Red

Telegraph Hill  
Mast Hill

Commission Hill, High Bldg. Flag staff 1916

Revision in 1926 shows 50 foot sounding  
on 25 foot sounding of 1916 survey.  
The soundings in blue (1926 survey) should not be  
barred in preference to those of the 1916 survey ferry  
pending further investigation, which will be made  
June 17, 1926.

Photographed from original HYD. Sheet No. 3928  
in the archives of the U.S. Coast and Geodetic  
Survey. Surveyed in 1916. Scale, 1:20,000.  
Soundings in feet at mean lower low water.  
U.S. Coast and Geodetic Survey, Division of Charts. June 21, 1926.

See sub-plan below

Goat I.

Mast Hill

