

456

Also refers to H. 462, 463, 464, 465 and 466

Diag. Cht. No. 5530-1

456

Also refers to H. 462, 463, 464, 465 and 466

Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
....., Director	
State: <i>California</i>	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. 456
LOCALITY	
San Francisco	
San Francisco Bay and Approaches	
1853 to 1855	
CHIEF OF PARTY	
J. C. Alden	

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

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

AND REFER TO No. 25-EG

June 5, 1930.

To: The Chief, Division of Charts.

From: The Chief, Division of Tides and Currents.

Subject: Datum of Soundings for Hydrographic Sheets
Nos. 456, 462, 463, 464, 465 and 466,
San Francisco Bay and vicinity.

In accordance with the recent request from the Section of Field Records in regard to datum of soundings for the above hydrographic sheets, an examination has been made of the original records.

The hydrographic work on these sheets was done during the years 1853-1855 under the command of Lieut. James Alden. These records are not sufficiently complete to form positive conclusions in regard to the datums actually used. The sounding books do not indicate the locations of the tide stations used for the reduction of soundings. Comparison of tide reducers in the sounding records with observed tides at the different tide stations then in operation in San Francisco Bay do not always show consistent results, even when a reasonable allowance is made for difference in location.

Such comparisons as have been made do not appear to justify the conclusion reached in note of Jan. 15, 1909, that the plane of reference used on Hydrographic Sheet 456 is 1.0 ft below mean lower low water, nor in note of June 1, 1926, that 1.5 feet should be added to soundings on Hydrographic Sheets Nos. 464, 465 and 466 to reduce to the plane of mean lower low water. The comparisons indicate rather that the datum was approximately as originally noted on the sheets, that is to say "The mean of the lowest low water of each 24 hours", which is now called the mean lower low water.

6 sheets listed under 'Subject' above

Paul F. Whitney
Chief, Division of Tides and Currents.

465 & 468

See 4-56

Diag. Ch. Nos.
5530-1 & 6154

464

Diag. Chart No. 5530-1

Form 504	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY, Director	
State: <u>California</u>	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. 464
LOCALITY	
San Francisco Bay	
Angel I. to Pt. Avisadera	
1853 ¹⁸⁸ to 1855	
CHIEF OF PARTY	
J. Alden	

also see H-456

464

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

AND REFER TO No. 33-EG

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

June 21, 1935.

☞ To: Chief,
Division of Charts.

From: Chief,
Division of Tides and Currents.


Subject: Tide reducers for Hydrographic Sheet No. 464.

Referring to the volume of sounding records for Hydrographic Sheet No. 464, covering the period May 30 - June 4, 1853, the tide reducers have been entered and soundings reduced to nearest half foot. The plane of reference for the reduction reads 1.4 feet on the tide staff at Oakland, California. From such computation as is possible from the limited tidal data available for that period, this may be taken as a sufficiently close approximation to mean lower low water.

NOTE: 1 sounding book
returned herewith.

and

Descriptive Reports
Nos. 456 and 464.



Chief, Division of Tides and Currents.

33-32

June 21, 1935.

To: Chief,
Division of Charts.

From: Chief,
Division of Tides and Currents.

Subject: Tide reducers for Hydrographic Sheet No. 464.

Referring to the volume of sounding records for Hydrographic Sheet No. 464, covering the period May 30 - June 4, 1935, the tide reducers have been entered and soundings reduced to nearest half foot. The plane of reference for the reduction reads 1.4 feet on the tide staff at Oakland, California. From such computation as is possible from the limited tidal data available for that period, this may be taken as a sufficiently close approximation to mean lower low water.

NOTE: 1 sounding book
returned herewith.

and

Descriptive Reports
Nos. 455 and 464.

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. 25-EF

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

January 6, 1928.

To: The Chief,
Division of Charts.

From: The Chief,
Division of Tides and Currents.

Subject: Tide Note, Hydrographic Sheet 464.

Referring to a tide note for Hydrographic Sheet 464, which was prepared by this Division under date of May 28, 1926, it has just come to my attention that the date 1855 inscribed on the hydrographic sheet is probably an error and that the work was actually done in the year 1853. The tide note of May 28, 1926, was prepared on the assumption that the date 1855 was correct. Accepting the date of 1853 as correct this note should be canceled as the soundings appear to have been reduced to the mean of lower low water as indicated in a previous note on the sheet.

G. W. H. H.

Chief, Division of Tides and Currents.

H. 464

A comparison of the sounding records with the hydrographic sheet showed that only about one-fourth of the soundings were plotted in the creek connecting San Antonio Creek with Lake Merritt.

Also all minus soundings were plotted as zeros and in a number of cases the outer zeros were not plotted, which resulted in an erroneous location of the mean lower low water line. All of the recorded soundings were replotted on 1:10,000 scale and the low water line correctly shown. The re-plotting was done on tracing paper and accompanies the original sheet.

In executing this work it was found that San Antonio Creek and the creek leading to Lake Merritt were surveyed in 1853 -- not 1855 as indicated in the title and index records. Whether the entire sheet was surveyed in 1853 could not be ascertained without a time-consuming study of the old sounding records.

E. P. Eeli
Jan. 27, 1928.