

# 11643

orig

Diag. Cht. No. 5101-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-5908 Office No. T-11643

### LOCALITY

State CALIFORNIA

General locality LONG BEACH

Locality SAN GABRIEL RIVER

1959-1960

### CHIEF OF PARTY

FRED NATELLA

### LIBRARY & ARCHIVES

DATE Sept. 1963

USCOMM-DC 5087

# 11643

DESCRIPTIVE REPORT - DATA RECORD

T --- 11643

Project No. (II): PH-5908

Quadrangle Name (IV):

Field Office (II): SANTA ANA, CALIFORNIA

Chief of Party:

FRED NATELLA

SUB UNIT:

C. H. BISHOP

Photogrammetric Office (III): PORTLAND, OREGON

Officer-in-Charge:

FRED NATELLA

Instructions dated (II) (III):

6 JANUARY 1960 II, III

Copy filed in Division of

AMENDMENT I:

13 APRIL 1960 II

Photogrammetry (IV)

Method of Compilation (III):

KELBH STEREOSCOPIC INSTRUMENT

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

1:6000

PANTOGRAPH SCALE:

1:10,000

Scale Factor (III):

NONE

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): LONG BEACH J-4, 1940

Lat.: 33° 46' 18.7028

Long.: 118° 07' 03.2847"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA

Zone: VI

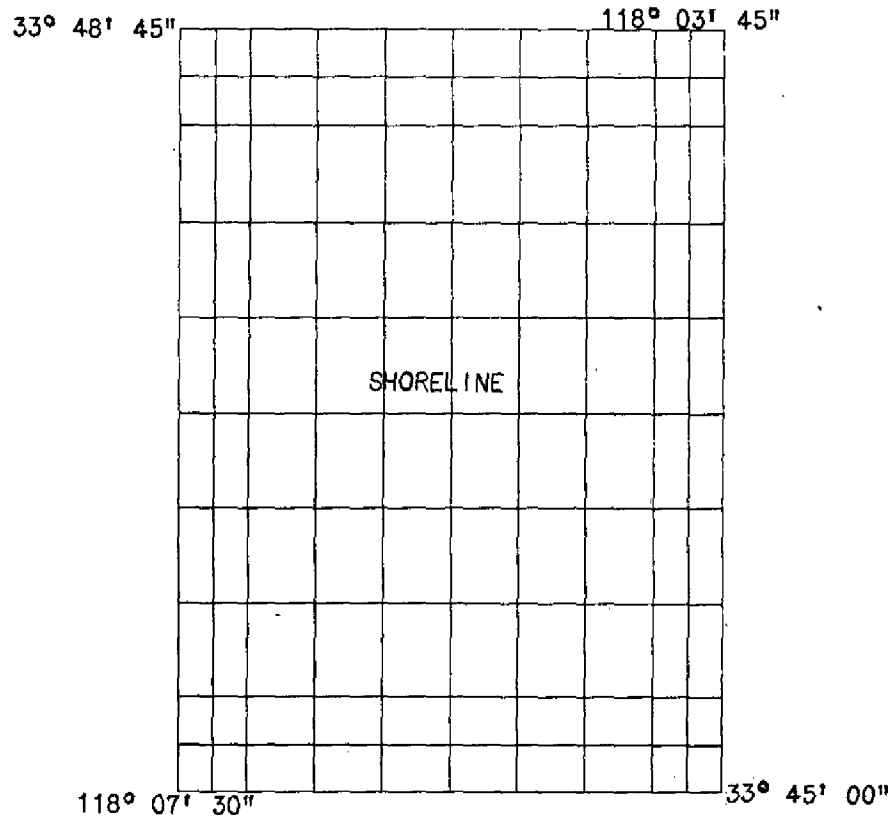
Y= 589,130.96

X= 1,432,456.84

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

DESCRIPTIVE REPORT - DATA RECORD



Areas contoured by various personnel  
(Show name within area)  
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): CHARLES H. BISHOP  
ROBERT B. MELBY  
LYLE L. RIGGERS  
Date: Oct. - Nov.  
1960

Planetable contouring by (II): NONE  
Date:

Completion Surveys by (II): NONE  
Date:

Mean High Water Location (III) (State date and method of location): BY FIELD INSPECTION OCT. - NOV.  
1960 AND KELSH INSTRUMENT COMPILATION.

Projection and Grids ruled by (IV): R.A.C.  
Date: 9-28-60

Projection and Grids checked by (IV): J.D.C.  
Date: 10-12-60

Control plotted by (III): D. N. WILLIAMS  
Date: 9-29-61

Control checked by (III): C. H. BISHOP  
Date: 10-4-61

Radial Plot or Stereoscopic  
Control extension by (III): R. E. FUESCHEL  
Date: OCT. 1960

Planimetry D. N. WILLIAMS  
Stereoscopic instrument compilation (III):  
Contours  
Date: 10-25-61  
Date:

Manuscript delineated by (III): L. L. GRAVES, SCRIBING  
C. C. HARRIS, STICK-UP  
Date: 5-17-62  
7-16-62

Photogrammetric Office Review by (III): J. L. HARRIS, ROUGH DRAFT  
J. L. HARRIS, ADVANCE  
Date: 1-4-62  
10-30-62

Elevations on Manuscript  
checked by (II) (III): NONE  
Date:

# DESCRIPTIVE REPORT - DATA RECORD

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

Camera (kind or source) (III): C&GS SINGLE LENS CAMERA "S"

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
59-S-8188	10-3-59	11:16	1:30,000	4.7 FT. ABOVE M.L.L.W.
59-S-8210	"	11:30	"	" " "
THRU 8212	"	11:30	"	" " "
59-S-7958	10-2-59	14:15	1:10,000	0.1 FT. " "
THRU 7960	10-2-59	14:15	1:10,000	0.1 FT. " "

COLOR TRANSPARENCIES

## Tide (III)

Reference Station: LOS ANGELES, CALIFORNIA  
Subordinate Station: LONG BEACH (OUTER HARBOR) CALIFORNIA  
Subordinate Station:

COMPUTED FROM PREDICTED TIDE TABLES.

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Ratio of Ranges	Mean Range	DIURNAL
		Spring Range
	3.8	5.4
	3.7	5.3

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 11  
Shoreline (More than 200 meters to opposite shore) (III): 2  
Shoreline (Less than 200 meters to opposite shore) (III): NONE  
Control Leveling - Miles (II):  
Number of Triangulation Stations searched for (II): 7 Recovered: 2 Identified: 2  
Number of BMs searched for (II): 5 Recovered: 3 Identified: 1  
Number of Recoverable Photo Stations established (III): 2  
Number of Temporary Photo Hydro Stations established (III): NONE

Remarks:

## FIELD INSPECTION REPORT

Sheets 11643, 11648, 11649 and 11650

Project Ph-5908

Long Beach to Seal Beach, California

November 1960

2. Areal Field Inspection:

Field inspection was done in accordance with Instructions-Project PH-5908, Shoreline Mapping, Long Beach to Laguna Beach, California, Field and Office, and Amendment I to these instructions.

The coast line in this area lies in a northwest-southeast direction and is broken by Alamitos Bay and Anaheim Bay, both of which have their entrances protected by stone jetties. The former is used as a moorage for many pleasure boats; the latter is restricted to Navy use, except that small boats entering the moorages on the northeast side of Sunset Beach pass through Anaheim Bay.

The area is generally flat and only a few feet above sea level, giving way to higher ground in the vicinity of Huntington Beach. Large marsh areas to the eastward of Seal Beach and between Sunset Beach and Huntington Beach have been indicated on the photographs.

The black and white field photographs, 1:10,000 scale ratio prints, are of good quality. In certain areas on the color transparencies, usually near the edges, the images are clear and sharp, while in the center they may be fuzzy.

Field inspection has been indicated on the following photographs:

59 S 8188, 8210 thru 8215, &amp; 8217

There is no field inspection or any other data on the color transparencies of this area.

3. Horizontal Control:

- a. No supplemental control was established.
- b. No datum adjustments were made by the field party.

c. The following stations established by the County of Los Angeles, California, were recovered and identified on Photograph 59 S 8210 for control of the photogrammetric plot:

<u>Station</u>	<u>Agency</u>	<u>Order of Accuracy</u>
Long Beach J-3D, 1958	County of Los Angeles	1st Order Triang.
Long Beach J-4, 1940	County of Los Angeles	1st Order Traverse

Station Long Beach J-3D, 1958 is connected to the Federal Control Net through Stations DAWSON (L. A. Co.) 1933 and KNIGHT 1933. The county surveyors stated that the closure was better than 1:25,000.

Station Long Beach J-4, 1940 was not included in the 1958 adjustment. It is tied to the Federal Control Net through Stations DAWSON (L. A. Co.) 1933 and KNIGHT 1933 and is also tied to station J-3D, 1958. The county surveyors stated that the closure of this traverse was better than 1:100,000.

The datum for these stations is North America 1927. Descriptions and position data are included with the field data for the sheets included in this report.

d. The following stations required by the project instructions for control were not recovered:

BIXBY, 1932; POWERLINE, 1933; LOS ANGELES - ORANGE COUNTY  
BOUNDARY POST NO. 5, 1933

These stations have probably been destroyed by highway construction. Stations Long Beach J-3D, 1958 and Long Beach J-4, 1940 were substituted for control in this area. See Item 3. c. above.

e. All Coast and Geodetic Survey stations within the sheet limits were searched for. The following stations are reported on Form 526 as "LOST":

Sheet 11643

BIXBY 1932	POWERLINE 1933
LOS ALAMITOS, 1872	Seal Beach, Bixby Water Tank 1933
LOS ANGELES - ORANGE COUNTY BOUNDARY POST NO. 5, 1933	

Sheet 11648

LANDING 1872	SAND BEACH 1872
LANDING HILL 1873	SEAL BEACH 1920
Light on Tower, Center of Pile Structure, 1953	
LITTLE HILL 1872	Seal Beach Pier Pavilion 1920
Long Beach, Pavilion, Red Cupola, Flagstaff 1920	
	Sunset Beach, Water Tank 1933

Sheet 11649

B.C. Gun Club, Station House, South Gable, 1911	
BOLSAS CREEK 1872	MARK 32, 1935
BOLSAS CREEK 2, 1920	MARK 33, 1935
LAS BOLSAS CHICA 1873	MUSTARD POINT 1873
MARK 29, 1935	Oil Well, Top of Pipe, 1935
MARK 30, 1935	SAND KNOLL 1873
MARK 31, 1935	TT 15 Y (U.S.G.S.) 1935

Sheet 11650

BOLSAS BLUFF 1873	MARK 15, 1935
Huntington Beach, Pier Flagstaff 1933	
ICE PLANT 1874	MARK 16, 1935
ICE PLANT 2, 1911	MARK 17, 1935
LAS BOLSAS 1853	MARK 18, 1935
MARK 1, 1935	MARK 19, 1935
MARK 2, 1935	MARK 20, 1935
MARK 3, 1935	MARK 20-A, 1935
MARK 4, 1935	MARK 21, 1935
MARK 5, 1935	MARK 22, 1935
MARK 6, 1935	MARK 23, 1935
MARK 7, 1935	MARK 24, 1935
MARK 8, 1935	MARK 25, 1935
MARK 9, 1935	MARK 26, 1935
MARK 10, 1935	MARK 27, 1935
MARK 11, 1935	MARK 28, 1935
MARK 12, 1935	PIER 1935
MARK 13, 1935	Roof 1911
MARK 14, 1935	STANDARD NO. 4, 1935

No "lost" stations were identified for use in the plot.

f. Form 152 was submitted for each station identified for control of the photogrammetric plot in the spring of 1960. Some triangulation intersection stations were identified as landmarks during field inspection in October and November 1960. Form 152 submitted for these stations are labeled "LDMK" and are not intended for use in controlling the plot.

4. Vertical Control:

Only the recovery of tidal bench marks was required by the project instructions. All tidal bench marks in the area were searched for and one mark in each group was identified on the photographs.



<u>Bench Mark</u>	<u>Photo</u>	<u>Calif. Index</u>	<u>Sta. No.</u>
Alamitos Bay Entrance, Tidal 1	59 S 8188	Part II	13
Anaheim Bay, Tidal 1 (1935)	59 S 8212	"	12
Los Patos (Highway Bridge), Anaheim Bay, Tidal 2 (1932)	59 S 8215	"	11
Los Cerritos Channel, Alamitos Bay, Tidal 2 (1953)	59 S 8211	"	14

5. Contours and Drainage:

Contours not applicable.

Drainage has been indicated within the field inspection limits on the field photographs. The main drainage in the area is the San Gabriel River and the flood control canal leading into the marsh area on the northeast side of Seal Beach.

6. Woodland Cover:

Woodland cover is very sparse. There is no vegetation that comes under the classification of brush. Some small patches of trees have been indicated on the field photographs.

7. Shoreline and Alongshore Features:

a. Two short stretches of mean high water line were located by planetable - one on the northwest side of the west jetty at Alamitos Bay and one on the east side of the mouth of the San Gabriel River. See Photographs 59 S 8188 and 8212. Otherwise, the mean high water line was located by measurements from points identifiable on the photographs. In Alamitos Bay, some land area has been removed and concrete bulkheads completed since the date of photography. See photograph 59 S 8188.

b. The low water line was not located by the field party.

c. The character of the foreshore has been indicated on the field photographs.

d. There are no cliffs in this area. A bluff in the vicinity of Huntington Beach ranging in height from twenty to forty feet has been indicated on Photograph 59 S 8217.

e. There are two prominent piers for recreational purposes along the ocean shoreline - one at Seal Beach and one at Huntington Beach.

Numerous small piers and floats in Alamitos Bay and Anaheim Bay have been indicated on Photographs 59 S 8188 and 8123. All floats indicated on the photographs are of a permanent nature. Many of them in Alamitos Bay have been added since photography and were located by planetable. The numerous slips along both sides of the long floats were omitted because they are so close together.

Navy ships tie up at a wharf in Anaheim Bay to load ammunition. There are small piers near the east end of this wharf.

f. Submarine cables and pipelines in Alamitos Bay have been indicated on the photographs. No others were observed.

g. Other shoreline structures are the jetties protecting the entrances to Alamitos and Anaheim Bays. These are constructed of large boulders and are approximately ten feet above mean high water. There are two short inner jetties in Anaheim Bay.

#### 8. Offshore Features:

The only offshore structure of importance within the area covered by this report is an oil-drilling island approximately 0.6 mile east of the east end of Long Beach Breakwater. It is off the limits of photography. A triangulation position (Light on Tower, Center of Pile Structure 1953) on the derrick gives the position of the structure. However, the derrick is movable on the structure and the position is "LOST" so far as triangulation is concerned.

An obstruction resembling a large concrete cylinder is located just offshore from the mean high water line on Photograph 59 S 8215.

#### 9. Landmarks and Aids:

Charted landmarks were verified and their heights and elevations determined. One new landmark, a radio mast on the northeast side of Long Beach Marine Stadium in Alamitos Bay, was selected for charting on Chart 5148.

All fixed aids within the limits of photography were identified on the field photographs. Since Alamitos Bay, Entrance East Jetty Light and Alamitos Bay, Entrance West Jetty Light appear on only one photograph, one substitute station was selected for both lights and the distance to each light determined by triangulation, using a short base near the substitute station.

X One fixed aid, a fog horn on the oil-drilling island mentioned in Paragraph 8, was listed on Form 567 only. No position was determined for this object and no Form 152, Control Station Identification Card, was submitted, as it is not within the limits of photography.

Anaheim Bay Channel Light 10 has been removed and replaced by a buoy.

All fixed aids and landmarks have been listed on Form 567.

10. Boundaries, Monuments and Lines:

Boundaries and monuments not applicable.

The limit lines of Long Beach Marine Stadium have been delineated on Photograph 59 S 8188. The limits of Bolsa Chica State Park are indicated on Photograph 59 S 8215. The limit lines of the Seal Beach U.S. Navy Ammunition and Net Depot are indicated on Photograph 59 S 8212.

11. Other Control:

No other control was established.

12. Other Interior Features:

Roads and landmarks and public buildings have been classified on the field photographs.

Bridge clearances in Alamitos Bay were measured and indicated on Photograph 59 S 8188. Bridge clearances in Anaheim Bay are noted on Photograph 59 S 8212. Pipeline crossings have been noted on the photographs. No overhead cables were observed.

Extensive oil fields have been noted on the photographs. There are no offshore oil-drilling operations in the area within the limits of photography. One drilling island, known as Monterey Oil Island, is at the west edge of Sheet 11648. See Item 8 above.

13. Geographic Names:

Geographic names will be the subject of a special report submitted when Project Ph-5908 is completed.

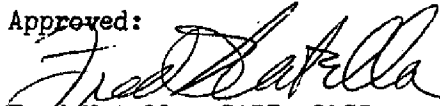
14. Special Reports and Supplemental Data:

No special reports are submitted with the sheets covered by this report.


The following maps are submitted:

- a. Map No. 9, City of Long Beach, for street names.
- b. Map of Seal Beach, California, for street names.
- c. Map of Site Development, Haynes Steam Plant, to show storage tanks already in place, buildings under construction, and roads that do not appear on the photographs.

Approved:

  
Fred Natella, CAPT, C&GS  
Portland District Officer

Respectfully submitted:

  
Charles H. Bishop  
Chief, Photo. Unit 722

## PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11643

PROJECT PH-5908

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT FOR THE ENTIRE  
PROJECT PH-5908 BY ROBERT E. FUESCHEL, OCTOBER 1960.

*Filed with Desc. Report T11640*

MAP T. 11643

PROJECT NO.

PH-5908

SCALE OF MAP 1:10,000

SCALE FACTOR

None

[illegible]

1 FT. = 3048006 METER

COMPUTED BY: J.L.H.

DATE 3-10-60

CHECKED BY: D.N.W.

DATE 3-10-60

COM-DC-57843

## COMPILATION REPORT

MAP MANUSCRIPT T-11643

PROJECT PH-5908

31. DELINEATION:

COMPILATION WAS BY KELSH INSTRUMENT.

32. CONTROL:

THE TWO HORIZONTAL CONTROL STATIONS IDENTIFIED WERE ESTABLISHED BY THE LOS ANGELES COUNTY ENGINEER IN 1958. THEIR ACCURACY AND OTHER PERTINENT INFORMATION IS DISCUSSED UNDER SIDE HEADING 3, HORIZONTAL CONTROL, IN THE FIELD INSPECTION REPORT FOR THIS MAP MANUSCRIPT.

SUPPLEMENTARY CONTROL ESTABLISHED BY STEREOPLANIGRAPH INSTRUMENT BRIDGING WAS ADEQUATE.

33. SUPPLEMENTAL DATA:

SHEET 32, MAP OF LOS ANGELES COUNTY  
SCALE 1 INCH = 600 FEET

MAP No. 9, CITY OF LONG BEACH  
SCALE 1 INCH = 400 FEET

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

EXAMINATION OF THE PHOTOGRAPHY BY THE COMPILER AND COMPARISON WITH THE U.S.G.S. QUADRANGLE AND OTHER MAPS OF THE AREA, REVEALED NO DRAINAGE NOT INDICATED ON THE FIELD PHOTOGRAPHS.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGH WATER LINE AND THE NUMEROUS SMALL PIERS AND FLOATS IN ANAHEIM BAY HAVE BEEN ADEQUATELY INDICATED ON THE FIELD PHOTOGRAPHY.<sup>1</sup>

36. OFFSHORE DETAILS:

NONE.

37. LANEMARKS AND AIDS:

ONE LANDMARK AND ONE AERONAUTICAL AID WERE IDENTIFIED ON THE FIELD PHOTOGRAPHS AND LOCATED BY KELSH INSTRUMENT. FORMS 567 ARE SUBMITTED:

38. CONTROL FOR FUTURE SURVEYS:

NO RECOVERABLE TOPOGRAPHIC STATIONS OR PHOTO-HYDRO STATIONS WERE ESTABLISHED.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11642 ON THE WEST AND T-11648 ON THE SOUTH. THERE ARE NO CONTEMPORARY SURVEYS ON THE EAST AND NORTH.

40. HORIZONTAL AND VERTICAL ACCURACY:

41. BRIDGE CLEARANCES:

THERE ARE SEVEN RIXED HIGHWAY BRIDGES IN THE AREA OF THIS MAP MANUSCRIPT. THEY ARE LISTED BELOW:

J. H. DAVIS BRIDGE, 6 LANE HIGHWAY OVER MARINE STADIUM  
HORIZONTAL, 106 FT; VERTICAL, 32 FT. ABOVE M.H.W.

U.S. 101A, BRIDGE, 4 LANE HIGHWAY OVER LOS CERRITOS CHANNEL  
HORIZONTAL, 40 FT; VERTICAL, 11 FT. ABOVE M.H.W.

HIGHWAY BRIDGE, APPROXIMATELY 300 METERS SW OF THE U.S. 101A  
HIGHWAY BRIDGE ABOVE, OVER LOS CERRITOS CHANNEL  
HORIZONTAL, 38 FT; VERTICAL, 7 FT. ABOVE M.H.W.

HIGHWAY BRIDGE, RAVENNA DRIVE, OVER RIVO ALTO CANAL  
HORIZONTAL, 34 FT; VERTICAL, 7 FT. ABOVE M.H.W.

HIGHWAY BRIDGE, THE TOLEDO (EAST), OVER RIVO ALTO CANAL  
HORIZONTAL, 28 FT; VERTICAL, 6 FT. ABOVE M.H.W.

HIGHWAY BRIDGE, NEAPOLITAN STREET (SOUTHEAST) OVER RIVO ALTO  
CANAL

HORIZONTAL, 32 FT; VERTICAL, 6 FT. ABOVE M.H.W.

HIGHWAY BRIDGE, NEAPOLITAN STREET (SOUTHWEST) OVER RIVO ALTO  
CANAL

HORIZONTAL, 29 FT; VERTICAL, 7 FT. ABOVE M.H.W.

46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S.  $7\frac{1}{2}$  MINUTE LOS ALAMITOS,  
CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1949.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART No. 5101, SCALE 1:234,270 AT LAT.  $33^{\circ} 20'$   
5TH ED. JAN. 6, 1947, REVISED MAY 18, 1959.

NAUTICAL CHART No. 5142, SCALE 1:80,000 AT LAT.  $33^{\circ} 31'$   
1ST ED. MAR. 5, 1951, REVISED NOV. 9, 1959.

NAUTICAL CHART No. 5148, SCALE 1:18,000 AT LAT.  $33^{\circ} 43'$   
3RD. ED. MAY 6, 1957, REVISED SEPT. 15, 1958.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

RESPECTFULLY SUBMITTED:

*Fred Natella* *James L. Harris*  
FRED NATELLA, CAPT, C&GS JAMES L. HARRIS  
PORTLAND DISTRICT OFFICER CARTOGRAPHER



49. NOTES FOR THE HYDROGRAPHER:

NONE.

## PHOTOGRAMMETRIC OFFICE REVIEW

T-~~2000~~ 11643

1. PROJECTION AND GRIDS X	2. TITLE X	3. MANUSCRIPT NUMBERS X	4. MANUSCRIPT SIZE X
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY X	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) None		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT X	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Date)			
12. SHORELINE X	13. LOW-WATER LINE None	14. ROCKS, SHOALS, ETC. X	15. BRIDGES X
16. AIDS TO NAVIGATION X	17. LANDMARKS X	18. OTHER ALONGSHORE PHYSICAL FEATURES X	19. OTHER ALONGSHORE CULTURAL FEATURES X
PHYSICAL FEATURES			
20. WATER FEATURES X		21. NATURAL GROUND COVER X	22. PLANETABLE CONTOURS None
23. STEREOSCOPIC INSTRUMENT CONTOURS None	24. CONTOURS IN GENERAL None	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS X	28. BUILDINGS X	29. RAILROADS None	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES X		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES X		34. JUNCTIONS X	35. LEGIBILITY OF THE MANUSCRIPT X
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT X	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS X
40. REVIEWER James L. Harris		SUPERVISOR, REVIEW SECTION OR UNIT Edward Deal	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER		SUPERVISOR	
43. REMARKS			

COMPILATION RECORD

COMPLETION DATE

REMARKS

1. Alongshore area for hydro	July 16, 1962	

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

**T-11643**

**AERONAUTICAL  
NONPNEUMATING AIDS OR TENDERS FOR CHARTS**

TO BE CHARTED  
TO BE CHARTED  
TO BE CHARTED

PORTLAND, OREGON 2 JANUARY 1962

I recommend that the following objects which ~~have~~ *(have not)* been inspected from seaward to determine their value as landmarks be charted on ~~(23112327159-1600)~~ the charts indicated.

The positions given have been checked after listing by J. L. Harris

**FRED MATULLA** *Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

**STRIKE OUT TWO**

## IDENTIFYING VISUAL LANDMARKS FOR CHARTS

**PONTLAND, OREGON**

I recommend that the following objects which have ~~(not been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(2012033447%)~~ the charts indicated.

The positions given have been checked after listing by J. L. Harris

**FRED TRAVELLA** *Chief of Party.*

**Chief of Party.**

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

### # TABULATE SECONDS AND METERS

48. Geographic Names List

Alamitos Bay

Belmont Shore

Long Beach

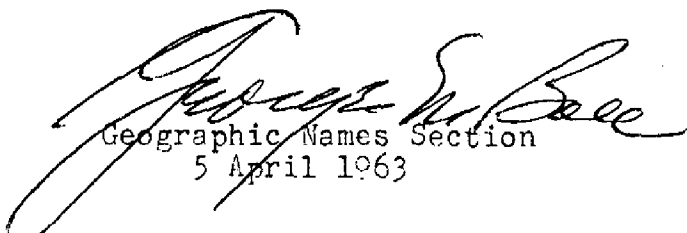
Los Cerritos Channel

Naples

Rivo Alto Canal

San Gabriel River

Seal Beach

  
Geographic Names Section  
5 April 1963

Review Report  
Shoreline Maps  
T-11641 thru T-11643, T-11647 and T-11648  
June 1963

61. General Statement

There are five (5) shoreline maps of project PH-5908, Long Beach to Laguna Beach, California. These maps were prepared primarily for location of all non-floating aids and landmarks for use in the revision of our Nautical Charts.

62. Comparison with Registered Topographic Surveys

T-5032	1:10,000	1933
T-5033A	1:10,000	1934
T-5034A	1:10,000	1934

The shoreline in some areas has built out as much as 200 meters. In the vicinity of Lat. 33°45', Long. 118°13.5' (San Pedro Bay Area) the water front has been almost completely rebuilt. These maps are to supersede the above surveys for common area for Nautical Charting.

63. Comparison with Maps of Other Agencies

Seal Beach, Calif.	1:24,000	U.S.G.S.	1949
Los Alamitos, Calif.	1:24,000	U.S.G.S.	1949
Long Beach, Calif.	1:24,000	USCGS	1949

There are cultural and shoreline changes due to the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys

None.

65. Comparison with Nautical Charts

5142	1:80,000	Nov. 1960 revised Dec. 1962
5147	1:12,000	Feb. 1963
5148	1:18,000	Feb. 1963

There are no differences of importance between the charts and the subject manuscripts.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Requested by:

*L. C. Lande*  
L. C. Lande

Approved by:

*Charles L. Linn*  
Chief, Photogrammetric Br.

*James S. Taylor*  
Chief, Nautical Charting Division

*J. E. Waugh 8/21/63*  
Chief, Photogrammetry Div.

*Harold S. Conerly*  
Chief, Operations Division



