

11616

Orig

Diag. Cht. No. 6459-2.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Shoreline (Photogrammetric)</u>	
Field No. <u>Ph-5905</u>	Office No. <u>T-11616</u>
LOCALITY	
State <u>Washington</u>	
General locality <u>Port Susan, Puget Sound</u>	
Locality <u>Warm Beach</u>	
<u>1959-1960</u>	
CHIEF OF PARTY	
<u>Lorne G. Taylor & Fred Natella</u>	
LIBRARY & ARCHIVES	
DATE <u>April 1964</u>	

USCOMM-DC 5087

Apr 28-1964
sent to David

11616

DESCRIPTIVE REPORT - DATA RECORD

T - 11616

Project No. (II): Ph-5905

Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

Photogrammetric Office (III): Portland, Oregon

Unit Chief: J. C. Lajoie & W. V. Hull

Officer-in-Charge: Lorne G. Taylor

& Fred Natella

Instructions dated (II) (III): 10 Feb. 1960 II

Copy filed in Division of

Supplement 1 5 May 1960 II & III

Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV):

SEP 12 1961

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): RAYNOLDS, 2, 1924

Lat.: 48° 08' 07.574"

Long.: 122° 22' 00.819"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

Y= 417,904.18

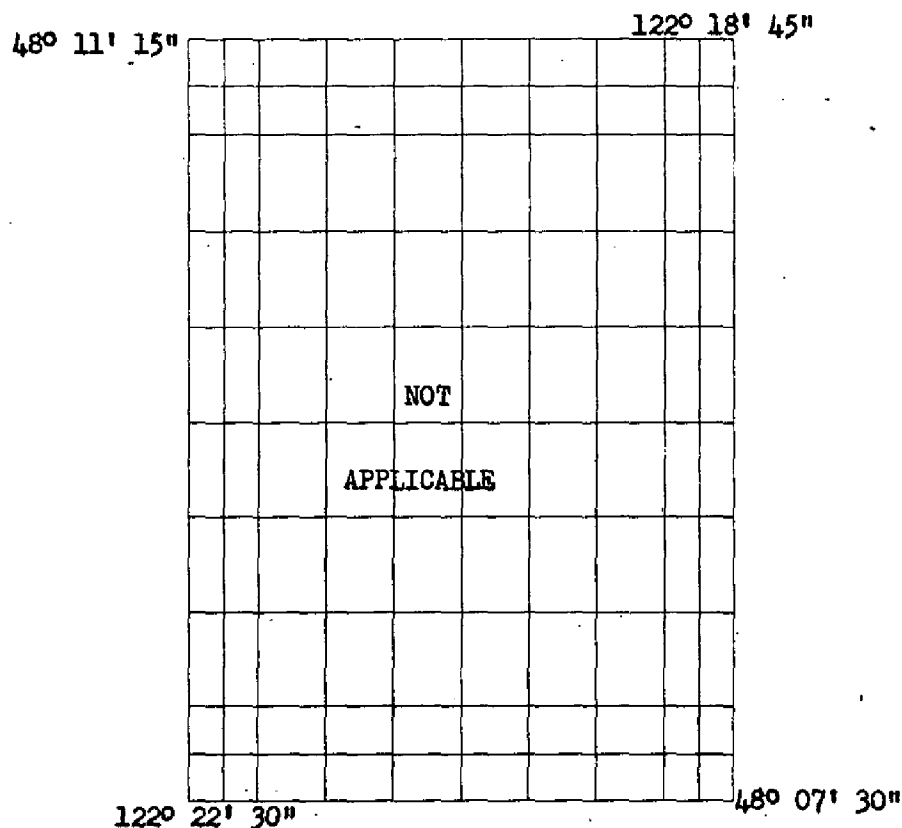
X= 1,625,551.55

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): L. F. Van Scoy - Shoreline
R. B. Melby - Interior

Date: 7-13-60
Aug. 1960

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 7-13-60 by field inspection, refinement by stereoscopic examination of office and compilation by graphic methods.

Projection and Grids ruled by (IV): J. Keefer

Date: 7-11-60

Projection and Grids checked by (IV): W. S.

Date: 8-17-60

Control plotted by (III): C. C. Harris

Date: 10-10-60

Control checked by (III): L. L. Graves

Date: 10-10-60

Radial Plot or Stereoscopic
Control extension by (III): J. L. Harris

Date: 1-11-61

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Date:

Manuscript delineated by (III): C. C. Harris - Rough Draft
D. N. Williams - Scribing
C. C. Harris - Stick-up

Date: 3-10-61
3-24-61
5-18-61

Photogrammetric Office Review by (III): D. N. Williams, Rough Draft
J. E. Deal, Advance

Date: 3-20-61
5-23-61

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): USC&GS Nine lens, focal length 8.25 inches

Number	Date	Time	Scale	Stage of Tide
60020 & 60021	9-9-59	09:02	1:10,000	9.0' above M.L.L.W.
60205 thru 60207	9-9-59	11:07	"	9.4' above M.L.L.W.

Tide (III)

Reference Station: Seattle, Washington
Subordinate Station: Tulalip, Port Susan, Washington
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring Range
	7.6	11.3
	7.6	11.2

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 10.6

Shoreline (More than 200 meters to opposite shore) (III): 5

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2

Recovered:

2

Identified: 1

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

FIELD INSPECTION REPORT

Map Manuscript T-11616

Project Ph-5905

Refer to the Field Inspection Report for the entire Project
Ph-5905 by Wesley V. Hull, February 1960 to September 1960.

Filed with Desc. Report T-11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11616

Project Ph-5905

Refer to Photogrammetric Plot Report for T-11598 thru T-11600, T-11606 thru T-11610 and T-11616 which is included in the Descriptive Report for T-11598 (1960).

COMPILATION REPORT

Map Manuscript T-11616

Project Ph-5905

31. Delineation:

Graphic methods were used to compile the planimetry. Roads in and into McKees Beach were not field inspected. These were compiled and classified as shown on U.S.G.S. quadrangles Tulalip and Stanwood, Washington. Refer to Item 34, Contours and Drainage.

32. Control:

Identified horizontal control and the pass points located by the photogrammetric plot were adequate for controlling the orientation of photographs for the location of minor pass points.

33. Supplemental Data:

SNOHOMISH COUNTY ROAD

WARM BEACH - STANWOOD RD. - Sheets 4 & 5 of 5 sheets

By Snohomish County Engineer, Everett, Wash.

34. Contours and drainage:

Contours are not applicable. Much of the drainage for the manuscript area which appeared on the U.S.G.S. quadrangles was not field inspected. Where the drainage could be delineated with certainty by stereoscopic examination it was compiled from the office photographs, otherwise it was transferred to the manuscript from the quadrangles by use of the vertical projector.

A pond shown on U.S.G.S. quadrangle Stanwood, Wash. east of Kayak Pt. is not evident upon close examination of the photographs. Other ponds shown on the quadrangles appear to be marsh upon examination of the photographs and have been detailed as such.

35. Shoreline and Alongshore Details:

The nine lens photography was taken just below mean high water. Infrared photography taken at the same time was used for interpretation to supplement the nine lens photographs. Because of the stage of tide these gave no data on low-water lines or foreshore areas. The shoreline inspection was adequate. Some changes were made at the compilation office in the field interpretation of apparent shoreline and grass in water areas as delineated on field photograph No. 60018.

36. Offshore Details:

None.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11608 on the north and T-11621 on the south. Port Susan is to the west. In order to compile the extent of a large tidal flat area in this body of water the limit line has been extended into the west marginal area. There is no contemporary survey to the east.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable.

There are no areas believed to be of sub normal horizontal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute quadrangle, Stanwood, Washington, Scale 1:24,000, edition 1956.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6450, 11th Edition, revised 9-5-60, hand corrected thru April 15, 1961, Scale 1:80,000 at Lat. 47° 57'.


Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

Approved:



Fred Natella, CAPT, C&GS
Portland District Officer

Respectfully submitted:



J. Edward Deal,
Cartographer, C&GS

49. Notes to the Hydrographer:

None.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11616

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) X 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes None 10. Photogrammetric plot report X 11. Detail points X

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line None 14. Rocks, shoals, etc. X 15. Bridges None 16. Aids to navigation None 17. Landmarks None 18. Other alongshore physical features X 19. Other along-shore 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 None 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. D. N. Williams J. Edward Deal
Reviewer Supervisor, Review Section or Unit

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:

M-2623-12

48. Geographic Names:

Kayak Point

Lake Howard

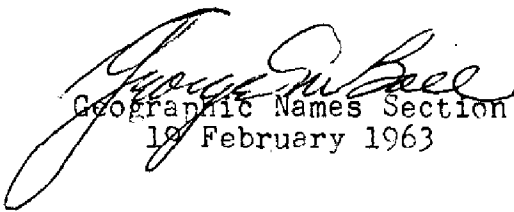
Lake Martha

Lake Rowland

McKees Beach

Port Susan

Warm Beach


Geographic Names Section
18 February 1963

Review Report
Shoreline Surveys
T-11611 thru T-11616
February 1964

61. General Statement

These are six (6) shoreline maps of project PH 5905, Puget Sound, Washington. These maps were prepared primarily to provide basic maps, including the location of all non-floating aids and landmarks for use in revising our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1164	1:10,000	1870
T-1254	1:10,000	1871
T-1755	1:20,000	1886
T-1994	1:20,000	1888
T-6767	1:10,000	1940
T-6909	1:10,000	1942

There are cultural and shoreline changes due to the difference in time interval. These map manuscripts are to supersede the above listed surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

Coupeville	1:24,000	1953
Camano	1:24,000	1953
Juniper Beach	1:24,000	1956
Stanwood	1:24,000	1956

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

64. Comparison with Contemporary Hydrographic Surveys

H-8544	1:10,000	1960
H-8699	1:10,000	1961

Shoreline and control of subject surveys was furnished prior to the hydrographic surveys and apparently, no differences were found or applied.

65. Comparison with Nautical Charts

6450	1:80,000	1961 revised to July 1963
1845.C.	1:80,000	1963

See item 47.

66. Accuracy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the requirements for adequacy and accuracy.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles H. Hume
Chief, Photogrammetric Branch

J. E. Hume 5/26/64
Chief, Photogrammetry Division

