

11609

Diag. Cht. No. 6450-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-5905 Office No. T-11609

### LOCALITY

State Washington

General locality Snohomish County

Locality Stillaguamish River

1959-1960

CHIEF OF PARTY  
Lorne G. Taylor  
& Fred Natella

### LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

11609 T

DESCRIPTIVE REPORT - DATA RECORD

T - 11609

Project No. (II): Ph-5905      Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington      Chief of Party: Lorne G. Taylor  
Unit Chief: W. V. Hull  
Photogrammetric Office (III): Portland, Oregon      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):      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): X

Mean sea level except as follows:  
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): There are no triangulation stations falling  
within area of manuscript. Refer to T-11608.

Lat.:      Long.:      Adjusted  
Unadjusted

Plane Coordinates (IV):      State:      Zone:

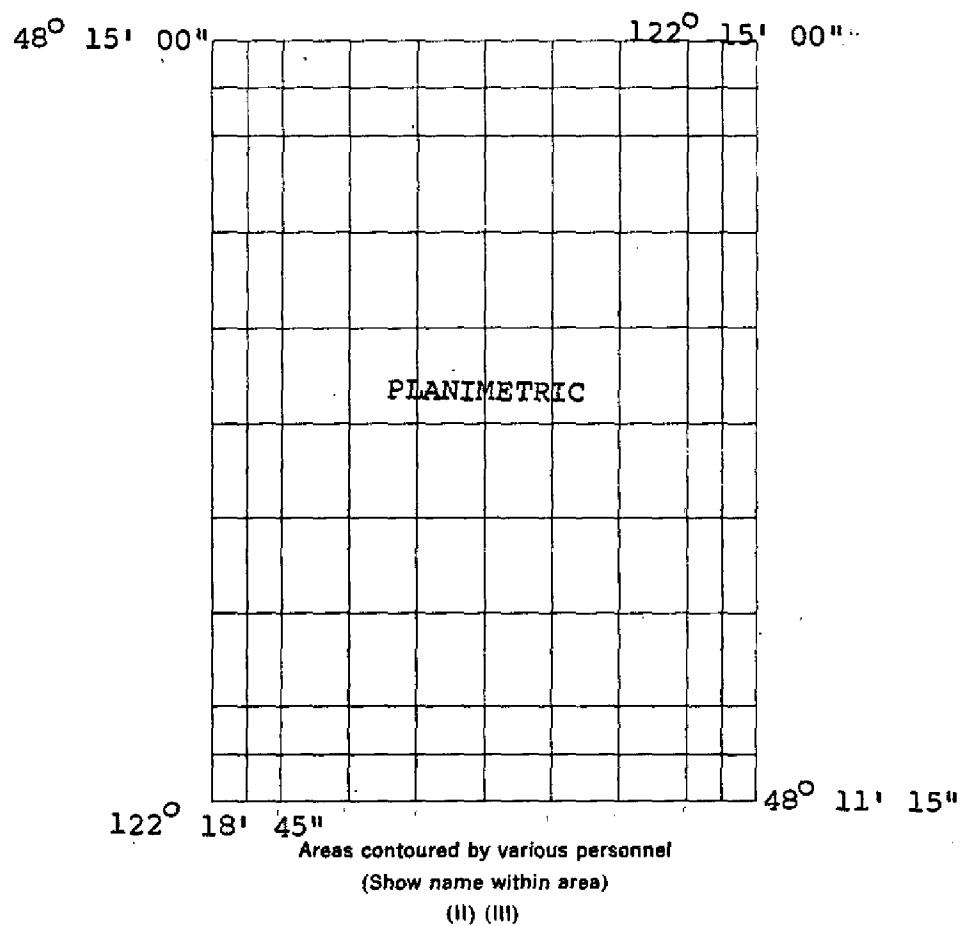
Y=      X=

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.

FORM 181a  
(4-23-54)

## DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. V. Hull & R. B. Melby

Date: June & Aug.  
1960

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 8-29-60 by field inspection and compiled graphically from 9-lens photographs.

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

Date: 7-8-60

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

Date: 8-17-60

Control plotted by (III):

None

Date:

Control checked by (III):

None

Date:

Radial Plot or Stereoscopic  
Control extension by (III):

J. L. Harris

Date: 1-11-61

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III):

L. L. Graves, Rough Draft  
C. C. Harris, Scribing  
C. C. Harris, Stick-up

Date: 7-6-61  
10-9-61  
1-5-62

Photogrammetric Office Review by (III):

C. C. Harris, Rough Draft  
J. E. Deal, Advance

Date: 8-10-61  
9-20-62

Elevations on Manuscript  
checked by (II) (III):

None

Date:

# DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS 9-lens, focal length 8.25 inches.

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
60089 thru 60091	9-9-59	09:50	1:10,000	4.9 ft. above M.L.T.
60111 thru 60114	"	10:08	"	4.5 ft. " "

## Tide (III)

Reference Station: Seattle, Washington  
Subordinate Station: Stanwood, Stillaguamish River  
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring
		Range
	7.6	11.3
	5.7	7.4

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): 13.6

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

Shoreline (Less than 200 meters to opposite shore) (III): 3

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): None Recovered:

Identified:

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-11609

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-11609

Project Ph-5905

Refer to the 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).

SCALE FACTOR

[illegible]

COMM-DC-57843

## COMPILATION REPORT

Map Manuscript T-11609

Project Ph-5905

31. Delineation:

Graphic methods were used to compile the planimetry. Field inspection adequate except as stated. Photography was satisfactory except for shoreline. In several places the mean high-water line was totally obscured by trees or shadows. The field unit made no attempt to clarify this condition. The line shown in these places was delineated by stereoscopic examination and with reference to the U.S.G.S. 7½ minute quadrangle.

32. Control:

None.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

Drainage not field inspected was delineated by the compiler with reference to the U.S.G.S. 7½ minute Stanwood, Washington, quadrangle.

35. Shoreline and Alongshore Features:

Refer to 31, Delineation. The photography available was taken when the tide was about one foot below mean high-water and the shoal and foreshore areas shown are as they appear on this photography. There are no low-water photographs available from which to delineate approximate low-water lines and other low-water features. There were no alongshore features indicated by field inspection and none could be determined in the office.

36. Offshore Details:

None.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions have been made on the west with T-11608 and on the east with T-11610. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable.

The horizontal accuracy is believed to be normal except in places as stated in 31, Delineation.

41. Bridge and Other Clearances:

The field unit indicated measurements for these features on the photographs, but failed to list the clearances in the field report. The vertical clearances were computed in the compilation office based on the subordinate tide station listed for this manuscript. They are:

Overhead Pipe Line over South Slough at  
Lat. 48° 11' 45"

Vertical Clearance 17.2 ft. above M.H.W.

Fixed Span Highway Bridge over South Slough at  
Lat. 48° 11' 55"

Horizontal Clearance is width of stream  
Vertical Clearance is 16.5 ft. above M.H.W.

Fixed Span Great Northern R.R. Bridge over  
Stillaguamish River at Lat. 48° 12' 15"

Horizontal Clearance 142 ft.

Vertical Clearance 26.8 ft. above M.H.W.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute Stan-  
wood, Wash., quadrangle, Scale 1:24,000, Edition 1956.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart 6450, Scale  
1:80,000, Eleventh Edition, revised 9-5-60, hand corrected  
thru 4-15-61.


Items to be Applied to Nautical Charts Immediately:

None.

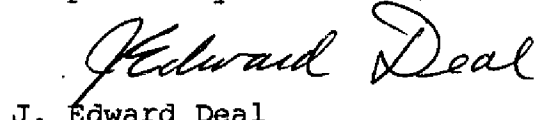
Items to be Carried Forward:

None.

Approved:

  
Fred Natella, CAPT, C&GS  
Portland District Officer

Respectfully submitted:

  
J. Edward Deal  
Cartographer

49. Notes to the Hydrographer:

None.

## PHOTOGRAMMETRIC OFFICE REVIEW

T-11609

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy none 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) none 7. Photo hydro stations none 8. Bench marks none 9. Plotting of sextant fixes none 10. Photogrammetric plot report ✓ 11. Detail points ✓

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. none 15. Bridges ✓ 16. Aids to navigation none 17. Landmarks none 18. Other alongshore physical features ✓ 19. Other along-shore cultural features ✓

## PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours none 23. Stereoscopic instrument contours none 24. Contours in general none 25. Spot elevations none 26. Other physical features ✓

## CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads ✓ 30. Other cultural features ✓

## BOUNDARIES

31. Boundary lines none 32. Public land lines none

## MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay none 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓40. Lorita L. Harris  
ReviewerJ. Edward Deal  
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:

T - 11609

COMPILATION RECORD

COMPLETION DATE

REMARKS

1. Alongshore area for hydro.		Not planned
4. Interior details added Compilation complete	Jan. 5, 1962	

48. Geographic Names:

Happy Valley

Norman

Prestliens Bluff

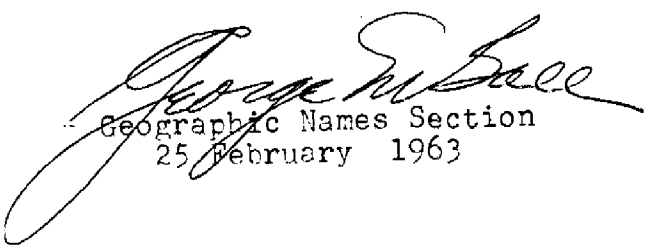
Silvana

Silvana Terraces

South Slough

Stillaguamish River

Sunday Lake

  
Geographic Names Section  
25 February 1963

Review Report  
Shoreline Surveys  
T-11601 through T-11610  
March 1964

61. General Statement

These are ten (10) 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-1254	1:10,000	1871
T-1755	1:20,000	1886
T-1994	1:20,000	1888
T-2011	1:20,000	1888
T-1253	1:10,000	1871
T-6767	1:10,000	1940
T-6768	1:10,000	1940

There are cultural and shoreline changes due to the difference in time interval. The shoreline has eroded approximately 30 to 40 meters in some areas. T-11601 through T-11610 are to supersede the above listed surveys of common areas for nautical charting.

63. Comparison with Maps of Other Agencies

Port Townsend North	1:24,000	1953
Coupeville	1:24,000	1953
Camano	1:24,000	1953
Juniper Beach	1:24,000	1956
Stanwood	1:24,000	1956
Arlington West	1:24,000	1956

There are small cultural and shoreline differences but in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8542	1:10,000	1960
H-8543	1:10,000	1960
H-8544	1:10,000	1960

Shoreline and control of the subject surveys was furnished prior to the hydrographic surveys and apparently no difference exist.

65. Comparison with Nautical Charts

6450	1:80,000	1961 revised to 1963
1845 <del>545</del>	1:80,000	1963
S. C.		

There are only minor differences between the charts and the manuscript.

66. Accuracy of Results and Future Surveys

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

Reviewed by:

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

Approved by:

*Charles L. Lauer*  
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

*M. E. Math*  
Chief, Photogrammetry Division  
*Acting*

