11610

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-11610

LOCALITY

State Washington

General locality Stillaguamish River

Locality Cook Slough

1959 – 1960

CHIEF OF PARTY
Lorne G. Taylor
& Fred Natella

LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

11610

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 11610

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
Supplement 1, 5 May 1960 II & III

Copy filed in Division of 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 within limits of map manuscript. Refer to T-11608.

Lat.: Long.: Adjusted
Unadjusted

Plane Coordinates (IV): State: Zone:

Y= X=

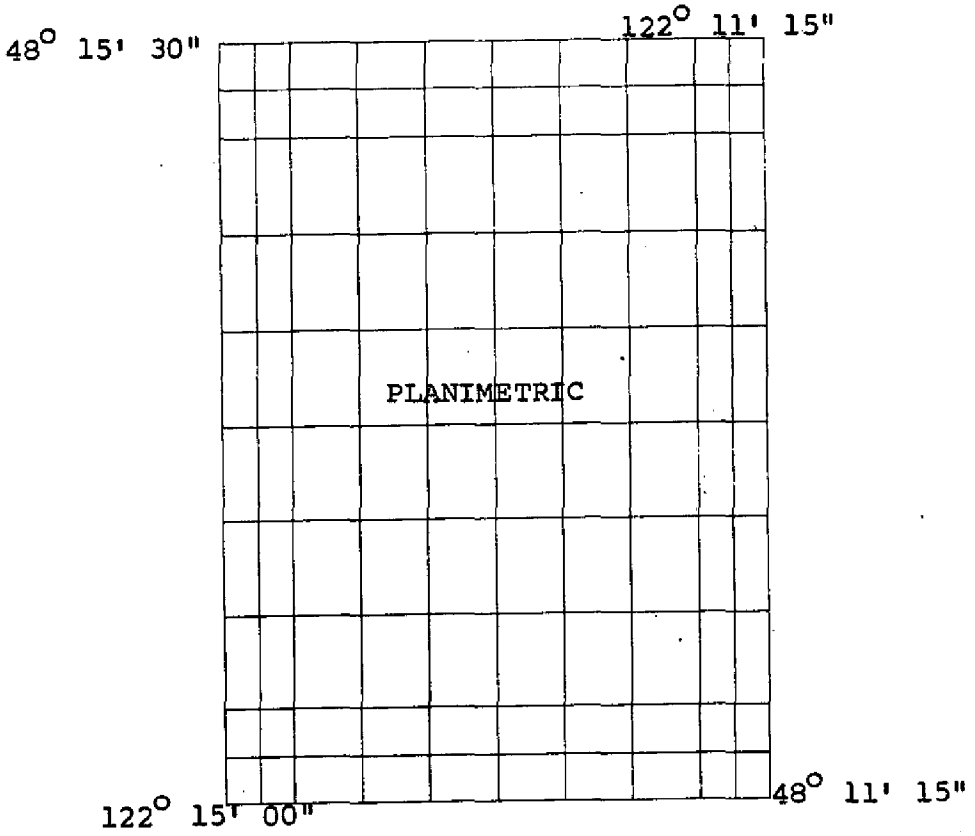
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

FORM 181b
(4-23-54)

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 and 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: 7-11-60

Projection and Grids checked by (IV): W. Souders 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): D. N. Williams, Rough Draft Date: 7-6-61
C. C. Harris, Scribing 10-27-61
C. C. Harris, Stick-up 2-28-62

Photogrammetric Office Review by (III): C. C. Harris, rough draft Date: 8-10-61
J. E. Deal, Advance 9-21-62

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

FORM 181c
(4-23-54)

5.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
60110 thru 60112	9-9-59	10:10	1:10,000	4.5 ft. above M.L.L.W.

Note: The data available for computing tides for these narrow inland streams is inadequate. The photography is probably near a M.H.W.

Tide (III)

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

Ratio of Ranges	Mean Range	Spring Range
Diurnal		
	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): 2
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 6* Recovered: 5 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:

* All are to the east and south of the project limits.

COMM-DC-57842

FIELD INSPECTION REPORT

Map Manuscript T-11610

Project Ph-5905

Refer to the Field Inspection Report for the entire Project Ph-5905 by Wesley V. Hull, February 1960 thru September 1960. Filed with Desc. Report T-11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11610

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).

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

ROL RECORD

MAP T-11610 PROJECT NO. Ph-5995 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
SMITH, 1960	Office	N.A.	423,793.31	3793.31 (1206.69)		1156.2 (367.8)	
	Comp.	1927	1,657,233.91	2233.91 (2766.09)		680.9 (843.1)	
Sub. Sta. "A"	"	"	423,822.0	3822.0 (1178.0)		1164.9 (359.1)	
			1,657,199.5	2199.5 (2800.5)		670.4 (853.6)	
Sub. Sta. "B"	"	"	423,845.6	3845.6 (1154.4)		1172.1 (351.9)	
			1,657,221.0	2221.0 (2779.0)		677.0 (847.0)	

1 FT. = .3048006 METER

COMPUTED BY: J.L.H. DATE: 9-30-60 CHECKED BY: J.E.D. DATE: 10-7-60

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-11610

Project Ph-5905

31. Delineation:

Refer to Descriptive Report for T-11609.

The photography did not permit compilation to the neat limits of the manuscript which is also the project limits.

32. Control:

All triangulation available is located to the east and south of the project limits.

33. Supplemental Data:

Contours are not applicable.

Drainage not field inspected was delineated by the compiler with reference to the U.S.G.S. Arlington West, Washington, quadrangle.

Items 35 thru 38:

Refer to Descriptive Report for T-11609.

39. Junctions:

A satisfactory junction was made on the west with T-11609. To the north, east and south is the project limits and there are no contemporary surveys at these junctions.

40. Horizontal and Vertical Accuracy:

Refer to Descriptive Report for T-11609.

41. Bridge Clearances:

The field unit furnished measurements on the clearances for four bridges which were not computed and included in the field inspection report. Tide data available for Stanwood, Stillaguamish River, was used to compute the vertical clearances. They are:

Fixed Span Highway Bridge over Stillaguamish River at Lat. 48° 12' 40"

Horizontal Clearance - Width between shorelines
Vertical Clearance - 20.5 ft. above M.H.W.

Fixed Span Highway Bridge over South Slough at Lat. 48° 11' 50"

Horizontal Clearance - Width between shorelines
Vertical Clearance - 13.5 ft. above M.H.W.

Fixed Span Railroad Bridge over South Slough at Lat. 48° 11' 50"

Horizontal Clearance - Width between shorelines
Vertical Clearance - 14.8 ft. above M.H.W.

Fixed Span Highway Bridge U.S. No. 99 Interstate No. 5 over Stillaguamish River at Lat. 48° 11' 50"

Horizontal Clearance - Width between shorelines
Vertical Clearance - 23.0 ft. above M.H.W.

46. Comparison with Existing Maps:

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

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart 6450, Scale 1:80,000, 11th 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.

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-11610

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 none 14. Rocks, shoals, etc. none 15. Bridges ✓ 16. Aids to navigation none 17. Landmarks none 18. Other alongshore physical features ✓ 19. Other alongshore 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. Beverita L. Harris — Reviewer

J. 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:

M-2623-12

T - 11610

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro		Not planned
4. Interior details added Compilation complete.	July 6, 1961	

48. Geographic Names:

Cook Slough

Jackson Gulch

Pilchuck Creek

Portage Creek

Prestliens Bluff

Silvana

South Slough

Stillaguamish River

The Island

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 erroded 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
184 S.C.	1:80,000	1963

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

Approved by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

Chief, Photogrammetry Division
Acting

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11610

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
18441	3/27/80	R.A. Lillie	Full ~~Part Before~~ After Verification Review Inspection Signed Via
		5-29-80-RCS	Drawing No. 49
18423	2/02/81	D. C. Larson	Full ~~Part Before~~ After Verification Review Inspection Signed Via
		3-18-81 E. PBB	Drawing No. 21
18440	3/12/81	D. C. Larson	Full ~~Part Before~~ After Verification Review Inspection Signed Via
		3-18-81 PBB	Drawing No. 33
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975

USCOMM-DC 8558-P63

* It seems questionable whether we have enough information to know whether the map conforms to standards. Most of control was on shore and accuracy along shore is probably standard and was adequate. Interior accuracy is believed to be adequate for the nautical chart.

Bgg 4/2/58

Subm on Chart 8515

Fish Island

RIG 1956

53'

Wooded Islands

AGE 1956 (Rk)

ISLE 1933

OX 1956

14058-11

y = 6,638,000 m

36

BAD 1956 pinnacle

SUE 1956

Tanker Island

TREE 1956

14058-12

52'

y = 6,636,000 m.

COMPARISON PRINT

Purple = H-8312
Red = Chart 8515

51'

8