

11637

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-11637

LOCALITY

State Washington

General locality Snohomish River

Locality Ebey Island

1959 - 1961

CHIEF OF PARTY

Fred Natella

LIBRARY & ARCHIVES

DATE April 1964

USCOMM-OC 5087

11637

DESCRIPTIVE REPORT - DATA RECORD

T - 11637

Project No. (II): Ph-5905

Quadrangle Name (IV):

Field Office (II): Mukilteo, Washington

Chief of Party: Fred Natella

Unit Chief: L. F. Van Scoy

Photogrammetric Office (III):

Portland, Oregon

Officer-in-Charge: 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):

LINE 2, 1961

Lat.: 47° 58' 34.988"

Long.: 122° 07' 42.860"

Adjusted
Unadjusted X

Plane Coordinates (IV):

State: Washington Zone: North

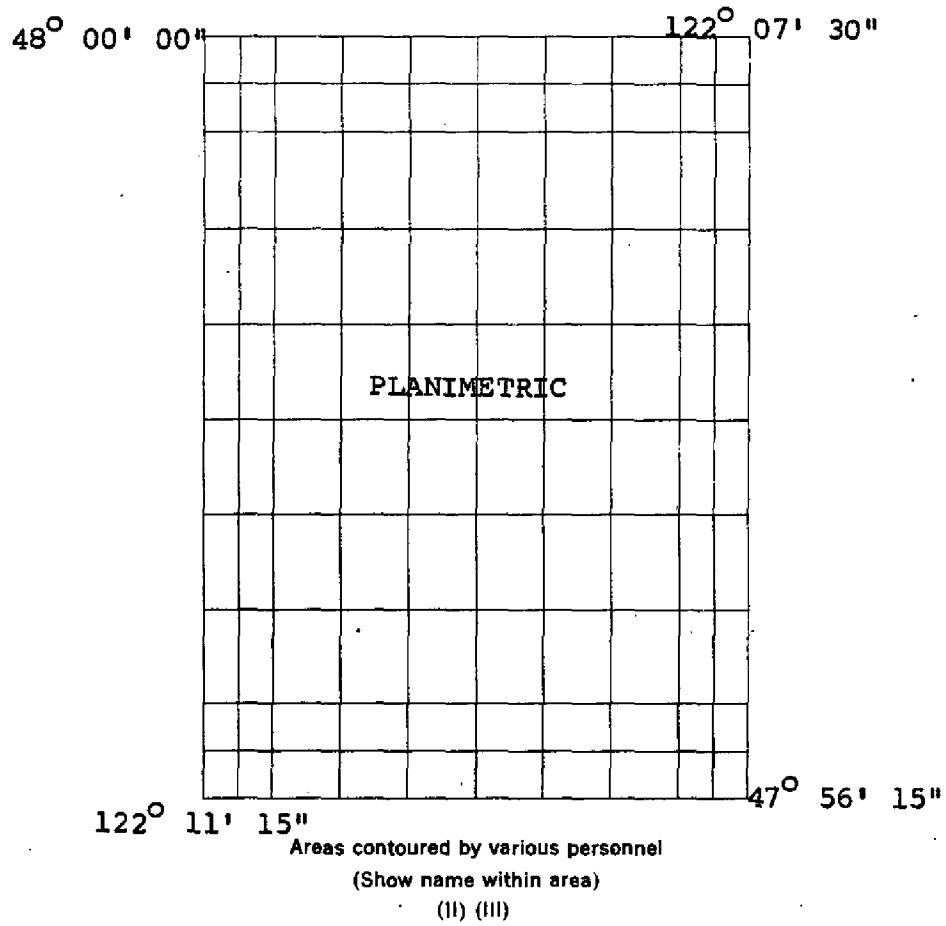
Y=

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.

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): R. B. Melby Date: May 1961

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): May 11 1961, by field inspection and graphic compilation.

Projection and Grids ruled by (IV): R.A.C. Date: 10-12-60

Projection and Grids checked by (IV): J.D.C. Date: 10-14-60

Control plotted by (III): L. L. Graves Date: 9-5-61

Control checked by (III): J. L. Harris Date: 9-5-61

Radial Plot or Stereoscopic
Control extension by (III): J. L. Harris Date: 9-7-61

Planimetry Date:
Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III): J. L. Harris, rough draft Date: 12-22-61
C. C. Harris, scribing Date: 4-6-62
C. C. Harris, stick-up Date: 5-24-62

Photogrammetric Office Review by (III): C. C. Harris, rough draft Date: 1-15-62
J. E. Deal, advance Date: 9-18-62

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

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
60030 thru				
60032	9-9-59	09:08	1:10,000	See below
60193 and				
60194	"	11:02	"	"

There is no data available to compute an accurate tide height for the photographs taken of the narrow streams falling on this manuscript. In general they should be considered near high water.

Tide (III)

Reference Station: See above.

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

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

Shoreline (Less than 200 meters to opposite shore) (III): 11.5

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 1

Recovered: 1

Identified: 1

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III):

None

Remarks:

FIELD INSPECTION REPORT

Map Manuscript T-11637

Project Ph-5905

Refer to the combined Field Inspection Report for Map Manuscripts T-11632 thru T-11639 by Leonard F. Van Scoy, dated April - May 1961, which is included in the Descriptive Report for T-11632 (1961).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11637

Project Ph-5905

Refer to the Photogrammetric Plot Report for
T-11636 and T-11637 which is included in the Descrip-
tive Report for T-1163³~~6~~.

COMPILATION REPORT

Map Manuscript T-11637

Project Ph-5905

31. Delineation:

The planimetry was compiled from nine lens photography by graphic methods.

In general the field inspection was satisfactory. Where field inspection data was not complete delineation was made by the compiler.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

Map of Everett, Washington, City file Ph-4, Scale 1" = 800', Revised 6-3-57.

34. Contours and Drainage:

Contours are not applicable.

Some drainage was not field inspected and in these places it was delineated by the compiler with reference to the U.S.G.S. Everett, Wash., 7½ minute quadrangle, Scale 1:24,000.

35. Shoreline and Alongshore Details:

Numerous inland narrow streams traverse the area of this manuscript. The field inspection did not indicate the location of the mean high-water lines for most of these streams and delineation was made by the compiler. Alongshore features were field inspected. There is not sufficient tide information available to determine the exact stage of tide at the time the photography was made of these narrow streams. The tide conditions at Stanwood, Washington, appear similar to the areas of this manuscript, but this fact could not be verified. Bridge clearances were computed on this assumption. The photography was taken at about mean high-water for Puget Sound at Everett, Washington, and it was assumed that the shoreline of the photography was ~~used as~~ the best source from which to compile the mean high-water line for these narrow inland streams.

There was no photography available from which approximate low-water and shoal lines could be determined.

36. Offshore Details:

None.

37. Landmarks and Aids:

There are no fixed aids to navigation. Forms 567 are submitted recommending the charting of one landmark.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11630 on the north and T-11636 of the west. There are no contemporary surveys to the east and south.

40. Horizontal and Vertical Accuracy:

Refer to the Descriptive Report for T-11627 (1960).

41. Bridge Clearances:

Three bridges cross navigable waters in the area of this map manuscript. The field unit furnished measurements at the time of field inspection. Clearances were computed at the compilation office using the time of tide at Everett, Washington, and the height of tide at Stanwood, Washington. This was believed to compare with the tide conditions applicable to this manuscript. The clearances are:

U.S. Highway #2 - left bridge over Snohomish River at Lat. 47° 58' 45"

Vertical Clearance - 42 feet

Horizontal Clearance - 113 feet

Highway bascule bridge over Ebey Slough at Lat 47° 57'

Vertical Clearance - 16 feet

Horizontal Clearance - 96 feet

U.S. Highway #2 Fixed Span Bridge over Ebey Slough
at Lat. 47° 58' 45"

Vertical Clearance - 10 feet

Horizontal Clearance - 219 feet

clearances on overhead cables were not furnished
by the field unit.

47. Comparison with Existing Maps:

Comparison was made with the U.S.G.S. Everett, Wash.,
7½ minute quadrangle, Scale 1:24,000, Edition 1953.

47. Comparison with Nautical Charts:

Comparison was made with nautical chart No. 6450,
11th Edition, revised 9-5-60, hand corrected 4-15-61,
Scale 1:80,000 at Lat. 47° 57'.

Comparison was made with nautical chart No. 6448,
7th Edition, 3-12-35, revised 10-5-59, Scale 1:40,000.

Nautical charts cover only a small portion of the
area of this manuscript.

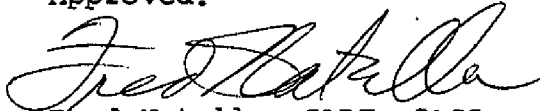
Items to be Applied to Nautical Charts Immediately:

None.

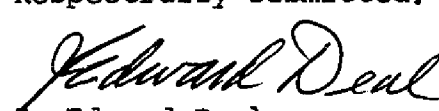
Items to be Carried Forward:

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-~~1163~~ 11637

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 X
16. AIDS TO NAVIGATION none	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 X	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 Leavitt C. 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			

T-11637

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro.		Map Complete Before Hydro. Not Formished
4. Interior Details added Compilation complete	May 24 1962	

Not
Applicable

TO BE CHARTED

POSTTEST

XXXXXXXXXXXX

STRIKE OUT TWO

SOME LOGICAL LANDMARKS FOR CHARTS

Portland, Oregon

16 Jan. 1962

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

The positions given have been checked after listing by **C. C. Harris**

Fred Natella *Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating 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**

U5COMM-DC 28412-P89

48. Geographic Names:

Cavalero Corner

Deadman Slough

Deadwater Slough

Ebey Island

Ebey Slough

Everett

Smith Island

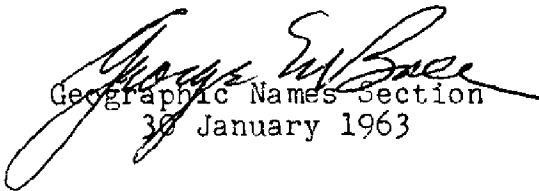
Snohomish River

Spencer Island

Steamboat Slough

Swan Trail Slough

Union Slough


Geographic Names Section
30 January 1963

REVIEW REPORT
SHORELINE SURVEYS
T-11631 through T-11639
December 1963

61. General Statement

There are nine (9) shoreline maps of Project PH-5905, Puget Sound, Washington. These maps were prepared primarily to provide basic maps, including the location of all nonfloating aids and landmarks for use in revising our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1388 b	1:10,000	1872
T-1389 a&b	1:10,000	1872
T-1552	1:20,000	1884
T-1681	1:20,000	1885
T-1682	1:20,000	1885
T-4276	1:10,000	1927

There are cultural and shoreline differences due to time interval. These maps are to supersede the above surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

Maxwelton, Washington	1:24,000	1953
Mukileto, Washington	1:24,000	1953
Everett, Washington	1:24,000	1953
Hansville, Washington	1:24,000	1953

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

6448	1:40,000	Revised to Oct. 1959
6450	1:80,000	Revised to June 1963
184 S. C.	1:80,000	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.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles L. Lumsden
Chief, Photogrammetric Branch

J. E. Laugh 4/8/64
Chief, Photogrammetry Division

