

# 11638

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-11638

### LOCALITY

State Washington

General locality Puget Sound

Locality Cultus Bay

1960 - 1961

### CHIEF OF PARTY

Fred Natella

### LIBRARY & ARCHIVES

DATE April 1964

USCOMM-DC 5087

# 11638

DESCRIPTIVE REPORT - DATA RECORD

T - 11638

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):

Kelsh 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): 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):

SCATCHET, 1921

Lat.: 47° 54' 52.725"

Long.: 122° 25' 46.346"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

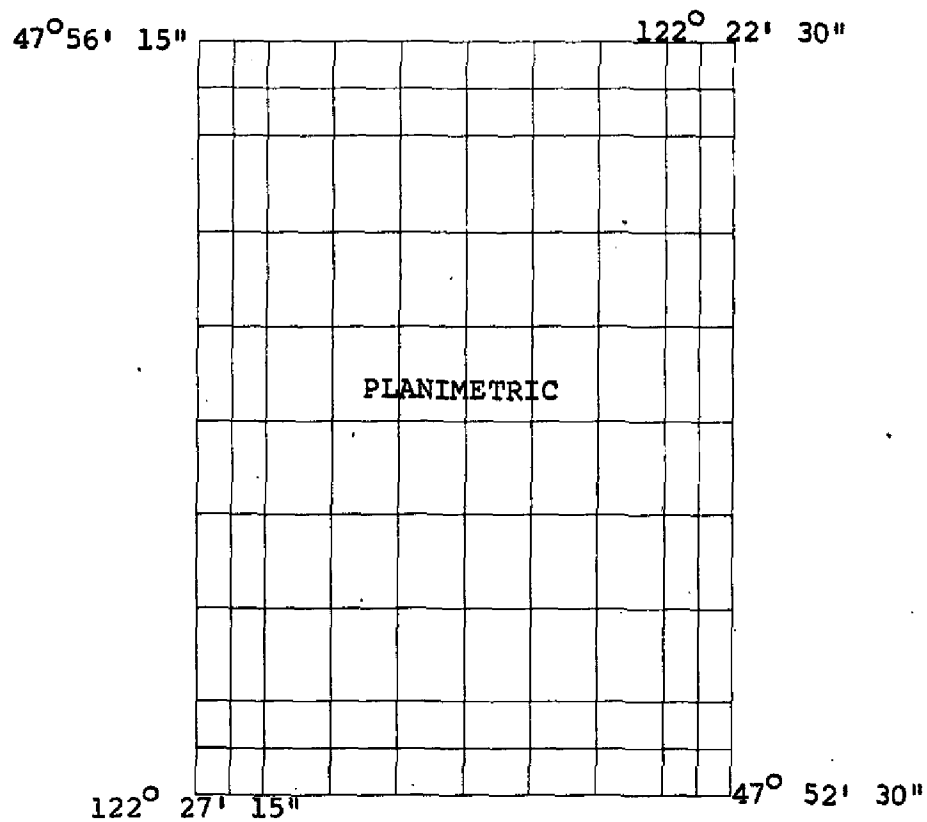
Y= 337,692.85

X= 1,608,586.96

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): R. B. Melby & L. F. Van Scoy

Date: April 1961

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 4-20-61 by field inspection and Kelsh Instrument 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: 6-9-61

Control checked by (III):

J. L. Harris

Date: 7-20-61

Radial Plot or Stereoscopic

J. D. Perrow, Jr.

Date: July 1961

Control extension by (III):

Stereoscopic Instrument compilation (III):

Planimetry D. N. Williams

Date: 8-8-61

Contours

Date:

Manuscript delineated by (III):

C. H. Bishop, Scribing

Date: 4-4-62

C. C. Harris, Stick-up

4-31-62

Photogrammetric Office Review by (III):

J. L. Harris, Rough Draft

Date: 11-8-61

J. E. Deal, Advance

9-19-62

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

None

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Single lens "W"

Number	Date	Time	Scale	Stage of Tide
60-W-2138	9-21-60	13:25	1:30,000	5.4 ft. above M.L.L.W.
60-W-2157 thru 2159	"	13:40	"	5.8 ft. " "

Tide (III)

Reference Station: Seattle, Washington  
Subordinate Station: Mukilteo, Washington  
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	7.6	11.3
	7.4	11.0

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): 9.6  
Shoreline (More than 200 meters to opposite shore) (III): 7  
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: 2  
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): 2

Remarks:

## FIELD INSPECTION REPORT

Map Manuscript T-11638

Project Ph-5905

Refer to the combined Field Inspection Report for Map Manuscript 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-11638

Project Ph-5905

Refer to the Photogrammetric Plot Report, Projects Ph-5905 and Ph-6101, Puget Sound, Washington (Strip 14) dated July 1961 by John D. Perrow, Jr., which is included in the Descriptive Report for T-11633.

MAP T	11638	PROJECT NO.	Ph-5905	SCALE OF MAP	1:10,000	SCALE FACTOR	None
MAP T	11638	PROJECT NO.	Ph-5905	SCALE OF MAP	1:10,000	SCALE FACTOR	None

[illegible]

1 FT. = .3048006 METER

**J. E. D.**

DATE 5-5-61

DATE 5-5-61

CHECKED BY: C. H. B.

DATE:

5-5-61

COMM-DC-57843



## COMPILATION REPORT

Map Manuscript T-11638

Project Ph-5905

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

Field inspection was adequate except for drainage.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

Map of Island County, Washington, dated March 1958, Scale 1" = 1 mile, compiled by Island County Engineer, March 1958.

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 Maxwellton, Wash., quadrangle.

35. Shoreline and Alongshore Details:

The mean high-water line was adequately spot located by field inspection and delineated by the compiler.

Foreshore areas shown represent conditions as they appeared on photography taken at about 5.0 ft. above Mean Lower Low-Water or about ½ tide.

There was no low-water photography available from which to compile approximate low-water lines.

Alongshore features were adequately field inspected. There are numerous rocks just offshore from the mean high-water line for which heights were computed from measurements furnished by the field unit.

36. Offshore Details:

None.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

Two photo-hydro stations were selected by the field unit and were located by Kelsh Instrument. They are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-11632 and T-11633 on the north and with T-11639 on the east. To the south and west is Puget Sound.

40. Horizontal and Vertical Accuracy:

There are no areas of the map manuscript believed to be of sub-normal horizontal accuracy. Vertical accuracy is not applicable.

46. Comparison with Existing Maps:

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

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6450, Scale 1:80,000, 11th Edition, corrected 7-27-59.


Items to be Applied to Nautical Charts Immediately:

None.

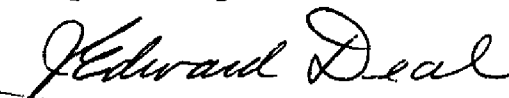
Items to be Carried Forward:

None.

Approved:

  
Fred Natella, CAPT, C&GS  
Portland District Officer

Respectfully submitted:

  
J. Edward Deal  
Cartographer

49. Notes to the Hydrographer:

Two photo-hydro stations were located by Kelsh Instrument.'

No.	Description	Photo No.
3801	South gable red-roofed house	60-W-2158
3802	West gable beach house	"

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 11638

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

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) None 7. Photo hydro stations ☒ 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. ☒ 15. Bridges None 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 None 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. J.L. Harris 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:

T-11638

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro.		<del>Map complete</del> <del>before hydro</del> <del>Not furnished</del> <i>Not Applicable</i>
4. Interior details added Compilation complete	May 31, 1962	

48. Geographic Names:

Cult~~us~~ Bay

Indian Point

Maxwelton

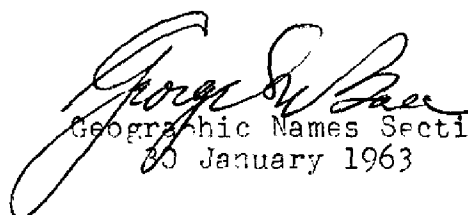
Possession

Possession Sound

Puget Sound

Scatchet Head

Whidbey Island

  
Geographic Names Section  
20 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 H. Hauer  
Chief, Photogrammetric Branch

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

