

11635

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-11635

LOCALITY

State Washington

General locality Possession Sound

Locality Mukilteo

1960 - 1961

CHIEF OF PARTY

Fred Natella

LIBRARY & ARCHIVES

DATE April 1964

USCOMM-DC 5087

11635

DESCRIPTIVE REPORT - DATA RECORD

T- 11635

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):
Supplement 1

10 Feb. 1960 II
5 May 1960 II & III

Copy filed in Division of
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): MUK, 1944

Lat.: 47° 57' 10.832"

Long.: 122° 17' 38.442"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

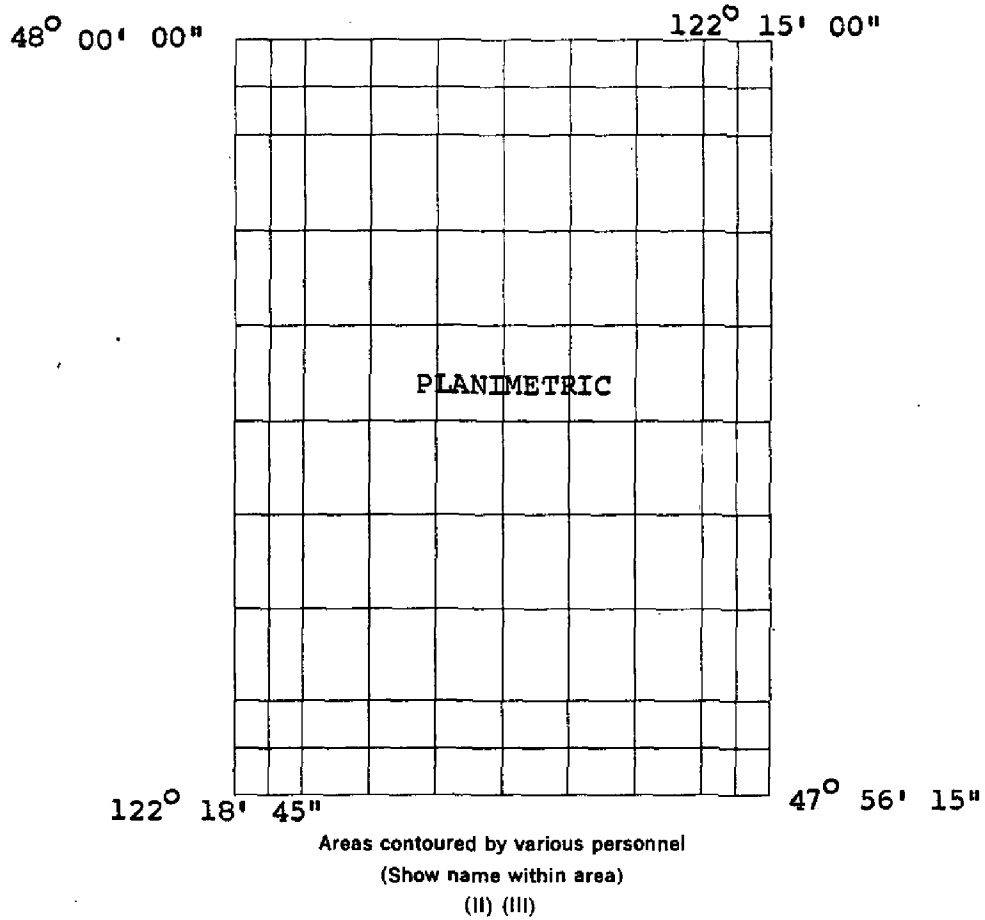
Y= 351,024.07

X= 1,642,082.02

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): **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): **4-26-61 and 4-27-61 by field inspection and Kelsh Instrument Compilation.**

Projection and Grids ruled by (IV):

R. A. C.

Date: **10-11-60**

Projection and Grids checked by (IV):

J.D.C.

Date: **10-14-60**

Control plotted by (III):

L. L. Graves

Date: **7-19-61**

Control checked by (III):

D. N. Williams

Date: **7-21-61**

Radial Plot or Stereoscopic
Control extension by (III):

John D. Perrow, Jr.

Date: **July 1961**

Stereoscopic Instrument compilation (III):

Planimetry **D. N. Williams**

Date: **7-26-61**

Contours

Date:

Manuscript delineated by (III):

J. L. Harris, Scribing
C. C. Harris, Stick-up

Date: **3-5-62**
4-30-62

Photogrammetric Office Review by (III):

J. L. Harris, rough draft
J. E. Deal, Advance

Date: **10-25-61**
7-20-62

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
60-S-2508 and 2509	4-25-60	13:33	1:30,000	4.7' above M.L.L.W.
60-S-2530 thru 2532	"	13:52	"	4.8' " "
60-W-2116	9-21-60	13:10	"	3.5' " "

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): 4.6
Shoreline (More than 200 meters to opposite shore) (III): 3.0
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 6 Recovered: 2 Identified: 1
Number of BMs searched for (II): 4 tidal Recovered: 4 Identified: 1
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): 3

Remarks:

FIELD INSPECTION REPORT

Map Manuscript T-11635

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-11635

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.

COMPILATION REPORT

Map Manuscript T-11635

Project Ph-5905

31. Delineation:

The Kelsh Instrument was used for the compilation of planimetric details. Field inspection was adequate except for drainage.

32. Control:

Horizontal Control was adequate.

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. Mukilteo, Wash., 7½ minute quadrangle.

35. Shoreline and Alongshore Details:

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

The foreshore areas shown were compiled from photography taken when the predicted tide was 4.8 ft. above M.L.L.W.

Shoal and approximate low-water lines could not be delineated.

36. Offshore Details:

None.

37. Landmarks and Aids:

Form 567 is submitted which verifies the triangulation position of an existing aid to navigation.

38. Control for Future Surveys:

Three objects were located for use as photo-hydro stations. They are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-11636 on the east and T-11639 on the south. To the west and north is Possession Sound.

40. Horizontal and Vertical Accuracy:

Vertical Accuracy is not applicable.

There are no areas of the map manuscript believed to be of sub-normal horizontal accuracy.

46. Comparison with Existing Maps:

Comparison was made with the U.S.G.S. Mukilteo, 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.

Items to be Applied to Nautical Charts Immediately:


None.

Items to be Carried Forward:

None.

Approved:

Respectfully Submitted:


Fred Natella, CAPT, C&GS
Portland District Officer


J. Edward Deal
Cartographer

49. Notes to the Hydrographer:

Three objects were selected for photo-hydro stations by the field unit and located by Kelsh Instrument.

No.	Description	Field Photo.
3501	West gable white house	60-S-2509
3502	Dolphin	60-S-2532
3503	Lone pile at east end of piling (ruins)	60-S-2532

T-11635

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro		Map complete before hydro. Not furnished <i>Not Applicable</i>
4. Interior details added. Compilation complete.	4-30-62	

PHOTOGRAMMETRIC OFFICE REVIEW

T-11635

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) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒
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. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 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 ☒ 26. Other physical features ☒

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines ☒ 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 None 39. Forms ☒
40. James L. Harris Edward Deul
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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

T-11635

PHOTOGRAMMETRIC REVIEW SECTION

NONFLOATING AIDS OR LEANING MARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT TWO
TO BE REVERSED }

~~XXXXXXXXXX~~ } STRIKE OUT TWO
~~XXXXXXXXXX~~

Portland, Oregon 20 July, 1962

I recommend that the following objects which have (~~been~~) been inspected from seaward to determine their value as landmarks be charted on ~~sketched forms~~ the charts indicated.

The positions given have been checked after listing by J. E. Deal

Portland, Oregon

~~20 July, 1962~~

[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.

T-11635

48. Geographic Names:

Edgewater

Elliot Point

Darlington

Jap Gulch

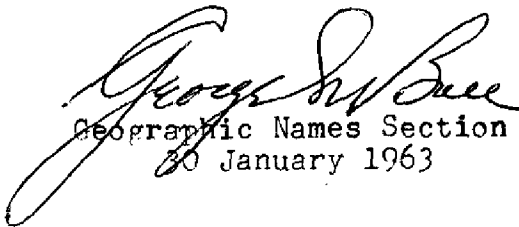
Merrill and Ring Creek

Mukilteo

Mukilteo State Park

Possession Sound

Powder Mill Gulch


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. Hannon
Chief, Photogrammetric Branch

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

