

# 11628

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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-11628

### LOCALITY

State Washington

General locality Possession Sound

Locality Tulalip Bay

1959-1960

### CHIEF OF PARTY

Lorne G. Taylor and Fred Natella

### LIBRARY & ARCHIVES

DATE April 1964

USCOMM-DC 5087

# 11628

DESCRIPTIVE REPORT - DATA RECORD

T 11628

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):

NOV 6 1961

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): ERODE, 1954

Lat.: 48° 02' 33.956"

Long.: 122° 15' 39.288"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

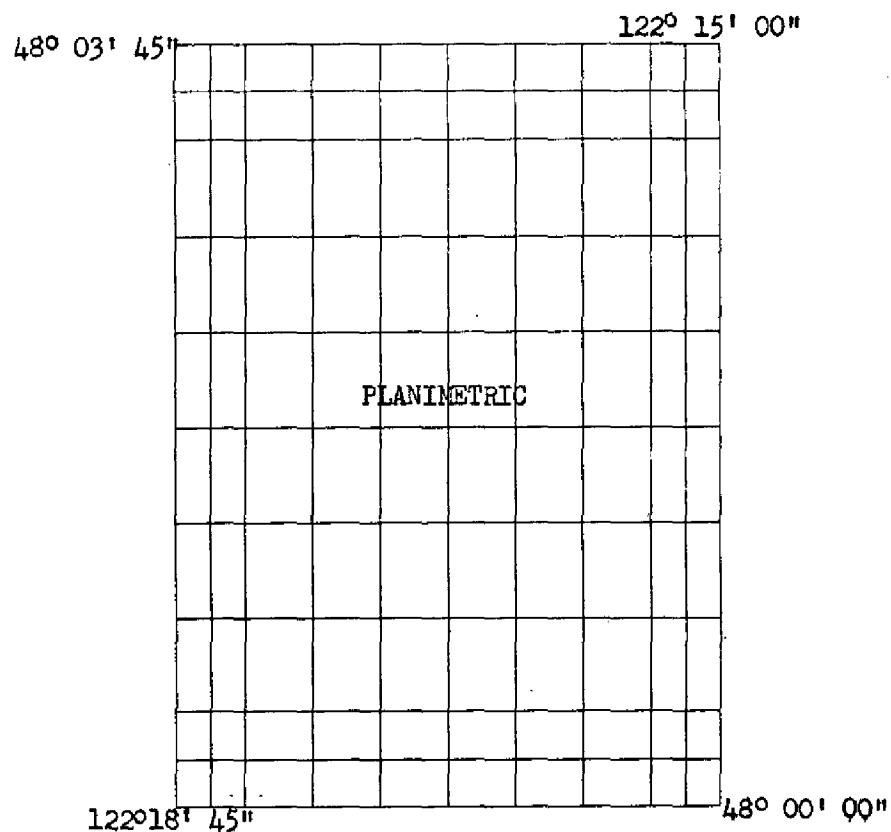
Y= 383,607.30

X= 1,650,798.67

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



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): L. F. Van Scoy & R. B. Melby Date: July & Aug. 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 7-14-60 and 8-20-60 by field inspection and graphic compilation.

Projection and Grids ruled by (IV): R. A. C. Date: 10-7-60

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

Control plotted by (III): J. L. Harris Date: 1-13-61

Control checked by (III): L. L. Graves Date: 1-13-61

Radial Plot or Stereoscopic Control extension by (III): J. L. Harris Date: 2-14-61

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

Manuscript delineated by (III): J. L. Harris, Rough Draft Date: 2-27-61  
D. N. Williams, Scribing 5-3-61  
E. C. Harris, Stick-up 8-29-61

Photogrammetric Office Review by (III): C. C. Harris, Rough Draft Date: 3-13-61  
J. E. Deal, Advance 10-5-61

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

# DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Single lens "L" and 9-lens.

Number	Date	Time	Scale	Stage of Tide
60-L-9510	4-16-60	13:16	1:20,000	1.3' above M.L.L.W.
60199 and 60200	9-9-59	11:05	1:10,000	9.4' above M.L.L.W.

## Note:

Infra-red photography was taken simultaneously with the nine-lens photographs.

## Tide (III)

Reference Station: Seattle, Washington  
Subordinate Station: Tulalip, Washington  
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	7.6	11.3
	7.6	11.2

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): 1.6  
Shoreline (More than 200 meters to opposite shore) (III): 5.0  
Shoreline (Less than 200 meters to opposite shore) (III): None  
Control Leveling - Miles (II):  
Number of Triangulation Stations searched for (II): 5 Recovered: 4 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): 3

Remarks:

## FIELD INSPECTION REPORT

Map Manuscript T-11628

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-11629

Project Ph-5905

Refer to the combined radial plot for T-11621, T-11622 and T-11628 thru T-11630 which is included in the Descriptive Report for T-11621.

Refer to Item 31, Delineation, of the Descriptive Report for T-11627 (1960) relative to horizontal control and methods used for the compilation Gedney Island.

*Refer to Item 31, Delineation, of the Descriptive Report for T-11627 (1960) relative to horizontal control and methods used for the compilation Gedney Island.*

SCALE FACTOR None

COMM-DC-57843



## COMPILATION REPORT

Map Manuscript T-11628

Project Ph-5905

31. Delineation:

Graphic methods were used to compile the planimetry. Nine lens photographs were used for the shoreline and interior details in the northeast portion of the manuscript. Infrared single lens photographs were used for the compilation of Gedney Island. Refer to remarks under this heading in the Descriptive Report for T-11627 (1960).

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

Drainage was not field inspected. The location of Mission Creek was delineated by the compiler with reference to the U.S. G.S. Tulalip, Washington, 7 $\frac{1}{2}$  minute quadrangle.

35. Shoreline and Alongshore Details:

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

Foreshore areas could not be delineated for the northeast portion of the manuscript which was compiled from nine lens photographs taken when the tide was 9.4 ft. above M.L.L.W. The character of the foreshore area was furnished by field inspection and has been indicated by notes along the shoreline. The foreshore area and shallow area around Gedney Island were compiled from infrared photographs taken when the tide was 1.3 ft. above M.L.L.W.

Infrared photography was available which was taken simultaneously with the nine lens photography at 9.4 ft. above M.L.L.W. and was of no value for the interpretation of low-water areas.

No approximate low-water lines or shoal lines were compiled.

36. Offshore Details:

Numerous piling and dolphins are offshore in Tulalip Bay.

Data on rocks bearing along the shoreline was furnished by the field inspector for the time of field inspection and was transcribed to the vertical datum of the manuscript by the compiler. The bearing of the rock at triangulation station ERODE, 1924 was obtained from the description of the station.

37. Landmarks and Aids:

There are no aids to navigation.

Forms 567 are submitted recommending the charting of one nautical landmark.

38. Control for Future Surveys:

Three photo-hydro stations were selected and located at the compilation office. They are listed under Item 49. Notes to the Hydrographer.

39. Junctions:


Satisfactory junctions were made with T-11622 on the north, T-11627 on the west and T-11629 on the east. To the south is Possession Sound.


Items 40, 46 and 47:

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

Approved:

Respectfully submitted:

  
Fred Natella, CAPT, C&GS  
Portland District Officer

  
J. Edward Deal  
Cartographer

49. Notes to the Hydrographer:

Three photo-hydro stations were selected and located during compilation.

Number	Description	Field Photo No.
2801	West corner bulkhead	60-I-9511
2802	Rock bares 6 ft. M.L.L.W.	"
2803	Rock bares 7 ft. M.L.L.W.	"

*9 ft per H-8753*

T-11628

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro.	Mar. 30, 1961	
4. Interior Details added Compilation complete.	Oct. 5, 1961	

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 11628

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) None 7. Photo hydro stations X 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 None 16. Aids to navigation None 17. Landmarks X 18. Other alongshore physical features X 19. Other along-shore 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 None 30. Other cultural features X

## BOUNDARIES

31. Boundary lines None 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. C.C. Harris J. 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:

48. Geographic Names:

Gedney Island

Hermosa Point

Mission Creek

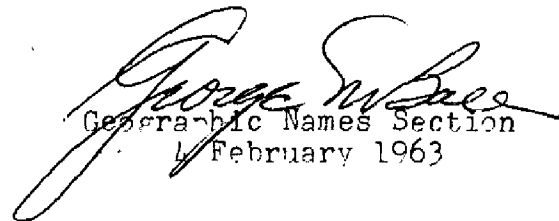
Mission Beach

Possession Sound

Tulalip Bay

Tulalip Indian Reservation

White Bluff

  
Geographic Names Section  
4 February 1963

Review Report  
Shoreline Surveys  
T-11623 through T-11630  
January 1964

61. General Statement

There are eight (8) 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-1388a	1:10,000	1872
T-1681	1:20,000	1885
T-1682	1:20,000	1885
T-1994	1:20,000	1888

Cultural and shoreline changes have been continuous with extensive cultural changes in the urban areas. These maps are supersede the above surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Freeland, Washington	1:24,000	1953
Langley, Washington	1:24,000	1956
Tulalip, Washington	1:24,000	1956
Marysville, Washington	1:24,000	1956

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

64. Comparison with Contemporary Hydrographic Surveys

H-8609	1:10,000	1960
H-8699	1:10,000	1961
H-8753	1:10,000	1963

Shoreline and control of subject surveys was furnished prior to hydrography and no changes of importance have been made. There is good agreement.

65. Comparison with Nautical Charts

6448	1:40,000	1935 revised to 1962
6450	1:80,000	1961 revised to 1963
<del>1845-C</del>	1:80,000	1963
1845-C		

There are only minor differences between the charts and the subject manuscripts

66. Accuracy 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*  
Lt. C. Lande

Approved by:

*Charles Lamm*  
Chief, Photogrammetric Branch

*J. E. Waugh 4/27/64*  
Chief, Photogrammetry Division



