

10346

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Diag. Cht. Nos. 5902-2 & 6002-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No. Ph-155 Office No. T-10346

LOCALITY

State Washington

General locality Columbia River

Locality Baker Bay

1955-1958

CHIEF OF PARTY

V. Ralph Sobieralski, Chief of Party
Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE MAY 1 1962

USCOMM-DC 5087

10346

DESCRIPTIVE REPORT - DATA RECORD

T - 10346

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Seaview, Washington

Chief of Party: V. Ralph Sobieralski

Unit Chief: C. H. Bishop

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III):

5 Oct. 1955)
12 Oct. 1955) II & III
3 July 1957)

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Kelsh Instrument and graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:5000

Pantograph Scale:

1:10,000

Scale Factor (III): None

Date received in Washington Office (IV):

AUG 16 1955

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

3/5/62

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X
Elevations shown as (25) refer to mean high water
Elevations shown as (25) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): CHINOOK, 1935

Lat.: 46° 18' 14.508"

Long.: 123° 58' 25.487"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington

Zone: South

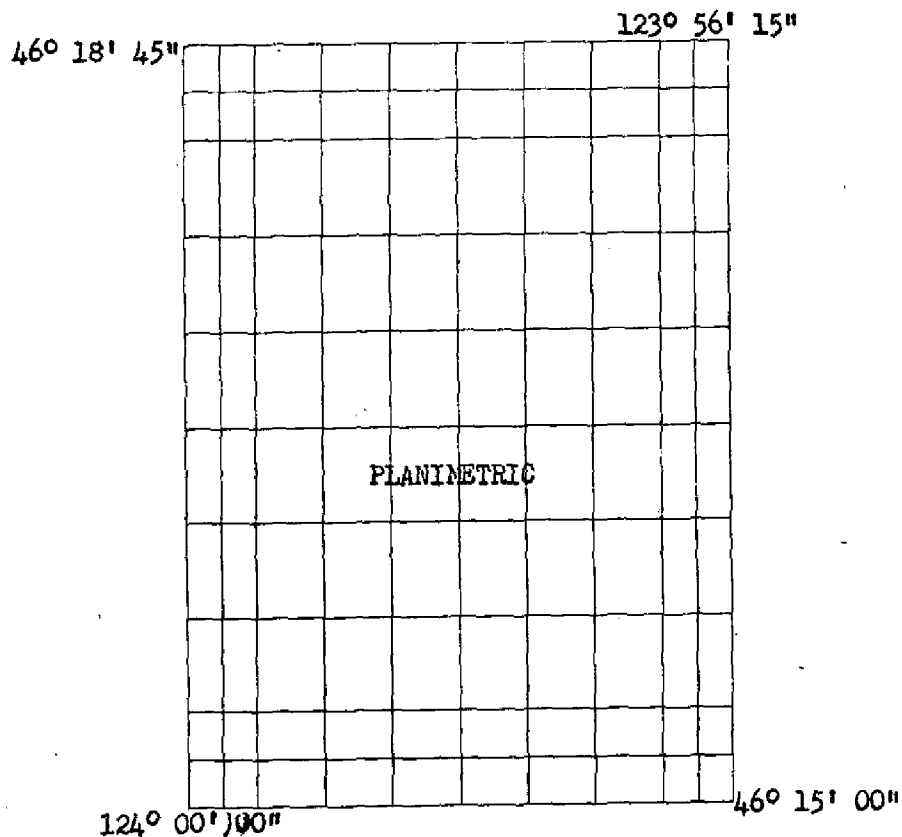
Y= 373,304.05

X= 1,122,336.99

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): C. H. Bishop & R. B. Melby Date: Nov. 1957

Planetable contouring by (II): Date:

Completion Surveys by (II): *supplementary aids and landmarks* Date: *1958*

Mean High Water Location (III) (State date and method of location): Located by field inspection in Nov. 1957 and compiled by Kelsh Instrument and graphic methods.

Projection and Grids ruled by (IV): J. R. Haskins Date: 11-14-57

Projection and Grids checked by (IV): J. R. Haskins Date: 11-14-57

Control plotted by (III): D. N. Williams Date: Nov. 1957

Control checked by (III): L. L. Graves Date: Nov. 1957

Radial Plot or Stereoscopic J. E. Deal & D. N. Williams, radial plot Date: 2-14-58
Control extension by (III): J. D. Perrow, Jr., Stereoplanigraph 1-28-58

Planimetry Date:
Stereoscopic Instrument compilation (III):

Contours Date:

Manuscript delineated by (III): D. N. Williams, Compilation Date: 9-29-58
J. L. Harris, Scribing 3-23-59
D. N. Williams, Stick-up 5-9-60

Photogrammetric Office Review by (III): J. E. Deal Date: July 1960

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

DESCRIPTIVE REPORT - DATA RECORD

5.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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

Number	Date	Time	Scale	Stage of Tide
55-W-8672 thru 8674	6-6-55	11:56	1:10,000 (ratio)	4.4' above M.L.L.W.
55-W-8683 and 8684	"	12:06	"	4.4' " "
55-W-9863 thru 9865	9-24-55	12:52	1:25,000 (contact)	3.2' " "
55-W-9875 and 9876	"	13:04	"	3.2' " "

Tide (III)

Reference Station: Astoria, Oregon
Subordinate Station: Chinook, Baker Bay, Washington
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring Range
	6.5	8.2
	6.2	7.9

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

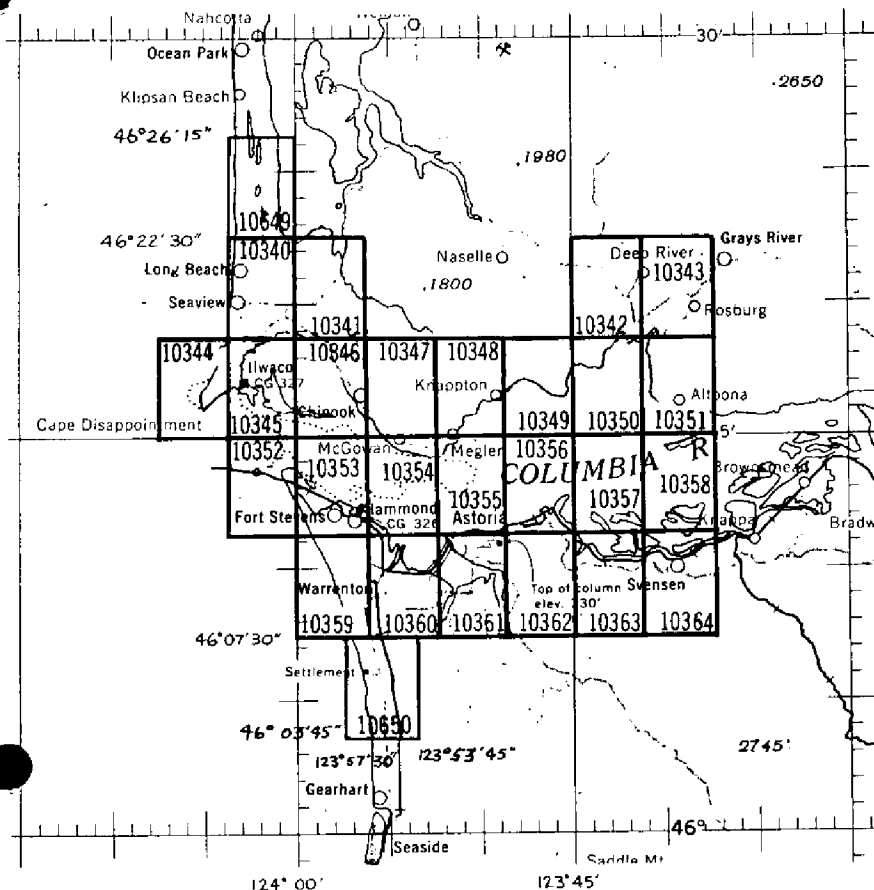
Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 6
Shoreline (More than 200 meters to opposite shore) (III): 11
Shoreline (Less than 200 meters to opposite shore) (III): 3
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 30 Recovered: 16 Identified: 8
Number of BMs searched for (II): 5 Recovered: 5 Identified: 1
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

PLANIMETRIC PROJECT PH-155 MOUTH OF COLUMBIA RIVER, WASH. OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN. MI. SHORT LINE	AREA SQ. MILES
10340	9	10
10341	8	12
10342	4	13
10343	7	13
10344	6	2
10345	13	3
10346	11	6
10347	3	12
10348	4	11
10349	4	8
10350	6	3
10351	8	9
10352	3	1
10353	9	4
10354	3	1
10355	4	2
10356	5	5
10357	8	1
10358	21	3
10359	5	6
10360	14	11
10361	15	9
10362	8	12
10363	17	10
10364	12	12
10649	8	8
10650	<u>4</u>	<u>8</u>
TOTAL	219	193

FIELD INSPECTION REPORT

Map Manuscript T-10346

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, "Mouth
of Columbia River to Altoona", July 1957 to November 1957. (IN T-10346)

AKA

Bridging Report
PH-155
Mouth of Columbia River

Strip #5

This bridge consists of models 55-W-9859 thru 55-W-9863. All control held with the exception of Chinock Dike Light, 1935. No pricking card was submitted to the Washington Office, however, the station was pricked on the photography. The pricked position could not be held in the bridge and it appears the light has been moved or the pricking was in error. Model 55-W-9862-9863 was reset on the planigraph as a check and all triangulation and bridge points were held with the exception of the Chinock Dike Light, 1935. The eastern end of Strip #5 (55-W-9863-9869) cannot be set in either the planigraph or the Kelsh and must be done by graphic methods. A small area south of models 55-W-9860 thru 9862 also must be done by graphic methods. Models 55-W-9852 thru 9854 on the western end of the strip can be set directly in the Kelsh. The area just to the west of these models will be done by graphic means.

John D. Perrow Jr.
John D. Perrow, Jr. 28 Jan 1968

Approved:

Morton Keller
Morton Keller

PH-155
Mouth of Columbia River

Strip #6

The bridge consists of models 55-W-9875 thru 55-W-9883. All control in this strip was held with the exception of Knappton Taller Smoke Stack, 1935, as noted, on the pricking card, the stack has been destroyed and only the base remains. The base cannot be clearly seen in stereo and it is believed this is the reason it could not be held. Model 55-W-9879 and 9880 was reset as a check and all bridgepoints were held. The area of models 55-W-9883 thru 9887 should be done by Kelsh or graphic compilation. Part of this area can be detailed from Models 55-W-9899-9900 in Strip 7-B, and 55-W-9854 thru 9852 in Strip 5. Models 55-W-9871 thru 9873 can be set directly on the Kelsh.

John D. Perrow Jr. 28 Jan 1968
John D. Perrow, Jr.

Approved:

Morton Keller
Morton Keller

Positions of Bridge points (1 of 2)

		<u>X</u>	<u>Y</u>
✓ 751	41	1 124 741.5 ✓	377 346.3 ✓
✓ 752	46	1 123 716.3 ✓	368 709.5 ✓
✓ (631) 753	46	1 128 735.0 ✓	368 538.0 ✓
✓ 761	47	1 132 400.3 ✓	375 032.9 ✓
✓ 762	47	1 132 239.5 ✓	368 041.9 ✓
✓ 763	46	1 130 059.0 ✓	362 209.0 ✓
✓ 771	47	1 140 796.8 ✓	375 628.6 ✓
✓ 772	47	1 140 469.5 ✓	368 484.3 ✓
✓ 773	47	1 138 636.8 ✓	361 622.8 ✓
✓ (621) 775	47	1 135 179.0 ✓	365 941.0 ✓
✓ 782	47	1 146 506.6 ✓	368 205.8 ✓
✓ 783	47	1 145 772.3 ✓	360 726.1 ✓
✓ 791	48	1 154 821.0 ✓	375 781.0 ✓
✓ 792	48	1 154 162.2 ✓	367 384.5 ✓
✓ 793	48	1 153 732.1 ✓	362 500.3 ✓
✓ (601) 794	48	1 150 797.0 ✓	363 226.0 ✓
✓ 801	49 ?	1 164 318.0 ✓	373 667.1 ✓
✓ 802	49	1 163 116.7 ✓	367 473.4 ✓
✓ 803	48	1 162 039.0 ✓	360 635.9 ✓
(591) ✓ 806	48	1 159 545.0 ✓	364 613.0 ✓
✓ 811	49	1 170 891.2 ✓	371 519.7 ✓
✓ 812	49	1 170 254.2 ✓	367 625.1 ✓
✓ 813	49	1 169 557.9 ✓	363 219.9 ✓
✓ 821	49	1 177 688.9 ✓	373 169.7 ✓
✓ 822	50	1 179 041.6 ✓	366 088.1 ✓

		<u>X</u>	<u>Y</u>
✓ 823 ✓	49	1 175 981.4 ✓	360 293.1 ✓
✓ 831	50	1 184 733.1 ✓	373 170.2 ✓
✓ 832	50	1 185 399.8 ✓	367 131.9 ✓
✓ 632	46	1 129 364 ✓	360 820 ✓
✓ 622	47	1 134 533 ✓	360 825 ✓
✓ 623	47	1 134 392	354 195 ✓
✓ 611	47	1 143 725 ✓	365 804 ✓
✓ 612	47	1 143 264 ✓	358 736 ✓
✓ 613	47	1 142 886 ✓	351 686 ✓
✓ 602	48	1 150 383 ✓	359 082 ✓
✓ 603 ✓	45	1 149 866 ✓	352 083 ✓
✓ 593 ✓	48	1 155 563 ✓	356 660 ✓

ADDENDUM TO
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10346

Project Ph-155

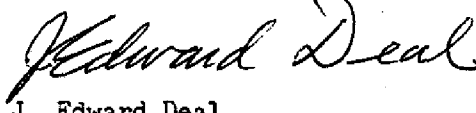
Refer to Stereoplanigraph Bridge Reports for Strips #5 and #6 which are included in this report.

As suggested in the above reports compiler controlled orientation of the ratio prints by use of identified horizontal control stations and the pass points located at the west limits of Strips #5 and #6. Satisfactory intersections of radials were obtained for minor detail points for the areas of this manuscript where graphic compilation was required.

Approved:


Fred Natella, CAPT, C&GS
Portland District Officer
for
Lorne G. Taylor, CDR, C&GS

Respectfully submitted:


J. Edward Deal
Cartographer

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-10346

PROJECT NO. Ph-155

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		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
CHINOOK CHURCH SPIRE, 1913	Wash.S. Pg.189	N.A. 1927	361,798.08 1,129,155.80	1798.08 4155.80	(3201.92) (844.20)		548.0 1266.7	(976.0) (257.3)	
VII (USE) 1935	Wash.S. Pg.62	"	358,532.39 1,118,358.00	3532.39 3358.00	(1467.61) (1642.00)		1076.7 1023.5	(447.3) (500.5)	
DO	Office Comp.	"	358,580.30 1,118,158.68	3580.30 3158.68	(1419.70) (1841.32)		1091.3 962.8	(432.7) (561.2)	
CHINOOK, 1935	Wash.S. Pg.66	"	373,304.05 1,122,336.99	3304.05 2336.99	(1695.95) (2663.01)		1007.1 712.3	(516.9) (811.7)	
DO	Wash.S. Office Comp.	"	373,636.68 1,122,083.19	3636.68 2083.19	(1363.32) (2916.81)		1108.5 635.0	(415.5) (889.0)	
Sub Station BAKER BAY EAST CHANNEL LIGHT 13, 1952	Wash.S. Pg.291	"	362,978 1,117,441	2978 2441	(2022) (2559)		907.7 714.0	(616.3) (780.0)	
CHINOOK CHANNEL LIGHT, 1952	Wash.S. Pg.291	"	361,532 1,127,351	1532 2351	(3468) (2649)		467.0 716.6	(1057.0) (807.4)	
SAND ISLAND MIDDLE DIKE LIGHT (WASH) 1958	Field Comp.	"	46 15 32.730 123 59 39.799				1010.6 852.4	(842.0) (432.7)	
SAND ISLAND LOOKOUT TOWER M-4 1958	Wash.S. Pg.291	"	358,572 1,117,800	3572 2800	(1428) (2200)		1088.7 853.4	(435.3) (670.6)	
SAND ISLAND UPPER DIKE LIGHT, 1958	Field Comp.	"	46 15 22.81 123 58 51.11						13
NOOK (USE) 1958	"	"	46 16 12.699 123 56 35.685				392.1 764.1	(1460.5) (520.7)	
PICNIC 1958	"	"	46 16 50.518 123 57 16.486				1559.9 352.9	(292.7) (931.6)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 10-7-57

CHECKED BY: D.N.W.

DATE 10-16-57

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10346

Project Ph-155

31. Delineation

The Kelsh Instrument was used to compile the shoreline and interior details in the northwest portion of the map manuscript. Sand Island and the obstruction details in Baker Bay were graphically compiled from the single lens ratio field prints.

Field inspection was adequate.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

Oregon Senate Bill No. 1, Chapter 94 O.L. 1957.

34. Contours and Drainage:

Contours are not applicable.

Drainage was adequately field inspected and readily discernable on the photographs.

35. Shoreline and Alongshore Details:

The mean high-water line and alongshore details were adequately field inspected and were compiled without any difficulty.

Foreshore areas were compiled along the Washington shoreline.

Approximate low-water lines are shown around Sand Island and at Chinook Breakwater.

36. Offshore Details:

Numerous piling and old fish trap areas are shown in Baker Bay. Sand bars which bare are also shown.

37. Landmarks and Aids:

Forms 567 which have been checked against the 1961 Pacific Coast Light List are submitted for the fixed aids to navigation shown on the manuscript.

Forms 567 verifying one landmark shown on Chart 6151 is submitted.

Forms 567 recommending the deletion of a landmark shown on Chart 6151 is submitted.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made on the north with T-10341, on the west with T-10345, on the east with T-10346 and on the south with T-10353.

40. Horizontal and Vertical Control:

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

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute Chinook, Wash. - Oreg., Scale 1:24,000, published 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, Scale 1:60,000, 34th Edition Oct. 10, 1960, Corrected through Jan. 7, 1961 and Nautical Chart No. 6002, Scale 1:180,789, 10th Edition July 9, 1942, Revised May 23, 1960, Corrected through Jan. 7, 1961.

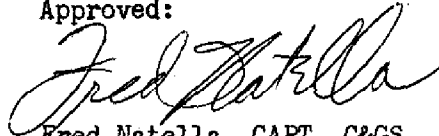
Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

Approved:



Fred Natella, CAPT, C&GS
Portland District Officer
for
Lorne G. Taylor, CDR, C&GS

Respectfully submitted:



E. Edward Deal
Cartographer

Map Manuscript T-10346

49. Notes to the Hydrographer:

The numerous fixed aids to navigation located and named on this manuscript furnish a strong base for the location of additional photo-hydro stations. Those shown with 2.5 mm circles were located by Kelsh instrument methods. All others have triangulation positions. In addition there are numerous other triangulation stations shown which were recovered and identified during field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10346

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 None 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 ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges None 16. Aids to navigation ☒ 17. Landmarks ☒ 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 ☒ 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. _____

Reviewer

Edward Deane
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

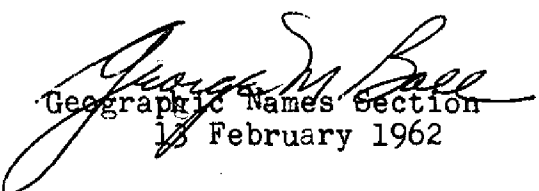
Supervisor

43. Remarks:

48. Geographic Names:

*Baker Bay
Baker Bay East Channel
Chinook
Chinook River
Clatsop County
Columbia River
Pacific County
Sand Island
Stringtown

* B.G.N. Decision


Geographic Names Section
13 February 1962

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEYForm 50
(10-15-50)

NONFLOATING AIDS OR MARKERS FOR CHARTS

TO BE CHARTED

~~NON-EXISTENT~~
~~NON-EXISTENT~~

STRIKE OUT TWO

Portland, Oregon

1 Aug. 19 61

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

The positions given have been checked after listing by

J. E. Deal

Fred Natalla Chief of Party													
STATE		OREGON - WASHINGTON		POSITION					METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED		
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE *		LONGITUDE *			DATUM			HARBOR CHART	INSHORE CHART	OFFSHORE CHART
			° ' "	° ' "	D. P. METERS	° ' "	D. P. METERS						
LIGHT	Sand Island Range Front Light	1000	46 15	123 59	57.61 1778.8		29.63 635.2	N.A. 1927	1958	X	6151		
LIGHT	Sand Island Range Rear Light	1000.1	46 16	123 58	02.61 86.8		47.661 1020.7	"	1956	X	"		
LIGHT	Baker Bay East Channel Light 1	1566	Built in 1959 since date of compilation									X	"
LIGHT	Baker Bay East Channel Light 2		Is not listed in 1961 Light List. Listed in 1959 Light List (Apparently discontinued)									X	"
LIGHT	Baker Bay East Channel Light 6	1567	46 15	123 57	47.10 1454.2		24.63 741.7	"	"	X	"		
LIGHT	Chinook Channel Light	1568	46 16	123 57	20.58 635.4		06.80 145.6	"	1952	X	"		
LIGHT	Baker Bay East Channel Light 10	1569	46 16	123 58	24.68 762.0		41.11 880.2	"	1958	X	"		
LIGHT	Baker Bay East Channel Light 13	1570	46 16	123 59	30.53 942.7		28.65 613.4	"	1952	X	"		
LIGHT	Sand Island Middle Dike Light	1592	46 15	123 59	32.730 1010.6		39.792 852.4	"	1958	X	"		
LIGHT	Sand Island Upper Dike Light	1593	46 15	123 58	22.81 704.3		51.11 1094.7	"	"	X	"		
* LIGHT	Chinook Dike Light	1594	46 15	123 57	00.04 1.3		07.82 167.6	"	"	X	"		
	* Rebuilt in 1961 Geographic Position May Be Incorrect.												
	The above lights have been checked against the 1961 Pacific Coast Light List.												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating 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

USCOMM-DC 27126

REVIEW REPORT
T-10340 through T-10351 and T-10649
Planimetric
February 21, 1962

62. Comparison with Registered Topographic Surveys:

Survey	Scale	Date	Survey	Scale	Date
H-240	836,000	1850	1341b	10,000	1873
317	22,762	1850-51	1342a	10,000	1873
H-334	221,360	1852	1894	20,000	1889
H-402			1806	10,000	1887
1123	10,000	1868	H-1930	10,000	1889
1138	10,000	1869	4251	20,000	1926
1139a+b	10,000	1869	6724ab	10,000	1936
1234	10,000	1870	6725ab	10,000	1936
1249	10,000	1870	6521b	10,000	1936

The manuscripts listed in this report supersede those surveys listed above for construction of nautical charts.

63. Comparison with Maps of Other Agencies:

Comparison was made with all available maps during the photographic review. For specific details refer to the Compilation Report for each manuscript.

64. Comparison with Contemporary Hydrographic Surveys:

Hydrographic survey H-8416 (1958) covers the three most western sheets in the project T-10340, T-10344 and T-10649. Comparison between these three sheets and the hydro survey revealed no inconsistencies.

65. Comparison with Nautical Charts:

6002	1:180,789	10 Edition 1942	1/7/61
6151	1:40,000	34 Edition 1960	1/7/61

66. Adequacy of Results and Future Surveys:

These maps comply with instructions and meet National Standards of Map Accuracies except as detailed below.

Many offshore details such as fishtraps, lines of pile, etc. were shown on the manuscript and labeled P.D. (Position Doubtful). These features were not field inspected, being some distance offshore their accuracy may not be standard. They should be accurately positioned during hydrography.

Respectfully submitted:

A. K. Heywood
A. K. Heywood

Approved:

L. C. Lande
L. C. Lande, Chief
Review and Edit Section

Marvin T. Carlson
Chief, Nautical Chart Div.

J. E. Waugh 5/21/62
Chief, Div. of Photogrammetry

W. C. Little
Chief, Coastal Surveys Div.
Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10346

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.