10649

Diag. Cht. Nos. 6002-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. **Ph-155** Office No. T - 10649

LOCALITY

State Sashington
Vicinity of Louth of
General locality Columbia River

Locality Breaker Lake to Loomis Lake

1957-1958

CHIEF OF PARTY

V. Ralph Sobieralski, Chief of Party Div. of Photogrammetry, Wash., D. C.

LIBRARY & ARCHIVES

DATE

COMM- DC 61300 ,

10649

DATA RECORD

T-10649

Ph-155 Project No. (II):

Quadrangle Name (IV):

Field Office (II): Seaview, Washington

Chief of Party: V. Ralph Sobieralski

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: CAPT L. W. Swanson

Instructions dated (II) (III):

10 January 1958

Copy filed in Division of Photogrammetry (IV)

(Copy included)

Method of Compilation (III): Stereo. instrument

. Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:15.000

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): 3/14/62

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): GREEN, 1926

Lat.:

460 251 31.864

1240 13' 11.152" Long.:

Adjusted X

Unadjusted

Plane Coordinates (IV):

State: Washington Zone: South

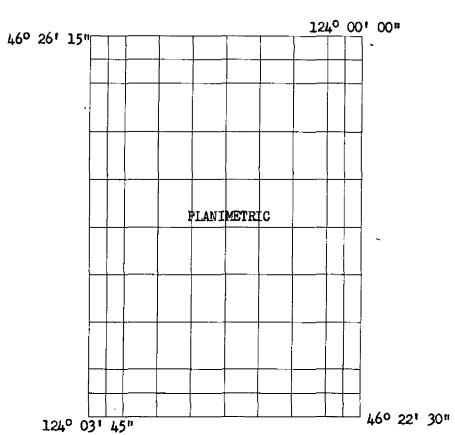
Y= 418, 454.37

x = 1, 104, 297.67

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.

3.



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

DATA RECORD

Field Inspection by (II): V. Ralph Sobieralski R. B. Melby (Interior)

July to Nov 1957 Date: Feb. 1958 June 1958

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Office inspection on Stereoplanigraph

and field inspection. Projection and Grids ruled by (IV): J. R. Haskins

12-18-57 Date:

Projection and Grids checked by (IV): I. Y. Fitzgerald

Date: 1-2-58

Control plotted by (III): J. B. Phillips

3-26-58 Date:

Control checked by (III): J. D. Perrow, Jr.

Date: 3-26-58

Radiat Riptypy Stereoscopic

3-25-58 Date:

Control extension by (III): J. D. Perrow, Jr.

Planimetry

Contaurs

Date: J. D. Perrow, Jr.

3-26-58

Stereoscopic Instrument compilation (III):

L. L. Graves, Interior

Doto:

Manuscript delineated by (III): J. B. Phillips, Shoreline

Date:

L. L. Graves, Interior

3-26-58 9-5-58

L. L. Graves, Scribing

9-26-58

C. C. Harris, Stick-up

Photogrammetric Office Review by (III): C. C. Harris, rough draft

4-14-59 4-10-59

Date:

J. E. Deal, Advance

8-30-60

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

Date:

Form T-Page 3

M-2618-12(4)

Camera (kind or source) (III): C&GS Camera "L"

4		PHOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide
57L 1832-1835	8-18-57	1510	1:10,000	4.8 above MLW
57-L-1843 thru 1845	ŧı	1520	n	ŧ

Tide (III)

Reference Station:

Astoria, Oregon

Subordinate Station:

Entrance Light N. Jetty

Subordinate Station:

Washington Office Review by (IV):

.

Final Drafting by (IV):

Date:

Ranges

Ratio of Mean | Spring

Range

Range

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 8

Drafting verified for reproduction by (IV):

Shoreline (More than 200 meters to opposite shore) (III): 4 miles

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

9 Recovered:

Identified: 6

Number of BMs searched for (II):

Recovered:

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

	Nancotta		0,1-1-1-1-1-1-	OFFITOE : A CO	T The Oath Wheels of Super-	
1	Ocean Park O	' ~ '	'	OFFICIAL MI	LEAGE FOR COST	
j	Klipsan Beach	Í	-2650	(C)	LIN.MI.	AREA SQ.
}	46°26'15"		ŗ	, SHÉET NO.		MILES
1		1980		10340	9	10
			-	10341	8	12
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Ì	46°22' 30" 10340 - W	Naselle O Deep River	Grays River	10343	7	13
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- {	- Seaview O		osburg	10345	13	3
ĵ		10342 72		10346	11	ઇ
}	10344 [liwaco 10346] 10347	10348	1	10347	3	12
- {		rispoton O All	toons	10348	4	11
Í	Cape Disappoin ment 10345 Chinook	10349 10350 10351	5'	10349	4	É
7	10352 McGo van	Megler 10356		10350	б	3
- {	10353 1035		3773	10351	ε	9 .
l	Fort Ster ins Common		Bradwi	10352	3	1
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	- 	Top of polymn Svensen		10354	3	J
}	Warranto	.4//: 12/ elev. 130' 1		103 55	4	2
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	Settlement -		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10357	9	l
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	46-03-45- 10690		<u>}</u>	10359	5	6
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	Gearhart			10361	15 , "	9
	in a single state of the s	ومهلييا بالبيياني	Notable Co	10362	, E	12
	Seas	ide Saddle Mt		10363	17	10
1	12.4* 00'	123°45′	•	10364	12	12
				10649	g .	8
			4	10650	7	. 8
				1000	_4_	· (2

1,7

193

219

TOTAL

FIELD INSPECTION REPORT

PROJECT PH-155

Mouth of Columbia River to Altoona

July 1957 to November 1957

2. Areal Field Inspection:

The area along the coast is flat with ponds and marshes. Much of this area was "blow sand" a few years ago, but is now fairly well stabilized by the planting of beach grasses and difterent varieties of pine trees. The gradient of the ocean beach is gradual and automobiles may be driven most of the length of it except at high tide. The interior is hilly and heavily wooded.

The coast is paralleled by U. S. Highway 101, which connects by ferry between Astoria, Oregon, and Megler, Washington. U. S. Highway 30 parallels the south side of the Columbia River from Astoria eastward to the end of the project. The Spokane, Portland and Seattle Railway parallels U. S. Highway 30 from the east edge of the project to Astoria and then parallels U. S. Highway 101 to the south edge of the project.

North of the river are the towns of Longbeach, Seaview, Ilwaco and Altoona. Longbeach and Seaview are principally summer resorts and depend largely on the tourist trade for their existence. Ilwaco is mainly a fishing port and Altoona is a fishing village with a fish cannery.

South of the river is Astoria, county seat of Clatsop County and the site of Fort Astoria which no longer exists but is marked by a historical marker. This is one of Oregons ports for seagoing vessels. Large quantities of grain and lumber are loaded on ships at the port docks.

Four and one-half miles south of Astoria near U. S. Highway 101 is the replica of Fort Clatsop which is on the exact site of the original fort. It was the headquarters for the Lewis and Clark Expedition during the winter of 1805-1806 and was the first military post west of St. Louis. Efforts are being made to make Fort Clatsop a national monument.

Also on the south side of the river are dammond and Warrenton. There are canneries and a sawmill here. Svenson is a small community along U. S. Highway 30 at the east edge of the project.

3. Horizontal Control:

(a) The following supplemental control was established and used for control of the photographs:

Station	Sheet	Established by				
GROUSE (temporary)	10341	Three Point Fix				
CANEY	10345	Triangulation & Traverse				
Ilwaco Dock Light	10345	Triangulation Intersection				
Farm	10346	n n				
Sock	10346	n n				
NOOK (USE)	10346	Triangulation				
PICNIC	10346	ñ				
SLOPE (temporary)	19347	Three Point Fix				
KNAPP 2	10348	Triangulation				
Mit	10359	Triangulation Intersection				
Lucas (shoran)	10650	0 0				
Rocky Point Light	10350	Triangulation				

Station CANBY was located by request from the U. S. Engineers to replace Station EAST BATTERY 1911 which possibly will be destroyed by quarrying.

Station Lucas (shoran) was located by the hydrographic party as a shoran site and was also used as photo control.

Station Mit is a hydrographic disc which was discovered while attempting to recover Station BEACH ROAD 1935. No record of this station was available to the field party and it was located by triangulation intersection from stations ASTOR 1935, GALENA RM 2, 1942 and CHUMMY 1956.

- (b) No datum adjustments were made by the field party.
- (c) The following stations not established by the Coast and Geodetic Survey were searched for:

Station	Sheet	<u>Established</u> <u>by</u>	Date `	Order of Accuracy	Disposition
BAY	10349	U.S.E.	1936	Unknown	Not recovered
BRUIN	10341(E.of	?) .	1937	. (3	Recovered
BR 3	10342(W.of		1936	n	Destroyed
BR 3, RM			1936	ti	Recovered
V 62	10342	H	1936	u	Not recovered
W 62	10342	ti .	1936	£1 ·	Recovered
X 62	10343	ti.	1936	H	n
Y 62	10343(E.of	r) n	1936	11	a
BR 2	10343(2.01	i i	1936	, pr	Not recovered
BR 2, RM			1936	tt.	Recovered

Station	Sheet	Establish by	ned <u>Date</u>	Order of Accuracy	Disposition
18 (USGS)	10353	U.S.E.	1935	Unknown	Recovered
A-31	10353	ti ti	1935	et .	11
S-31-A3	10353	, IT	1935	tt	u
Q-31	10353		1935	, 33	Not recovered
B 31	10354		1936	11	ts ti
J 309	10354	, u	1939	Ħ	Recovered
C 31	10360	B			Destroyed
P-8 (PP&LCo)	10360	d	1935	If	Recovered
P-9 (PP&LCo)	10360	n	1935	n	s. D
Q-100 (PP&LCo)		13	1935	ti 💮 😘	25
5-100 (PP&LCo)		n .	1935	H	
TEN RLOW	10360	B	1935	p .	Not recovered
P-10 (PPALCo)	10360	Ħ	1935	n	Recovered
P-22 (PRAICO)	10362	a	1935	Ħ	#1
P-23 (PP&LCo)	10362	17	1935	,pr	Not recovered
P-24 (PP&LCo)	10362		1935	n '	Recovered
FF 203	19364	n n	1936	3 7	n
H-203	19364	n .	1936	ů	Ħ
JJ-203	10364		1936	· n	n n
x-203	10364	e de la companya de	1936	13	h
D-203	10364	n	1936	n	. j
J-46 (OSHD)	10650	n	1935	17 1	n
P-11 (PP&LCo)	10650	1 m	1935	Ð	n
P-12 (PP&LCo)	10650	# .	1935	n	n

(d) The following stations required by the project instructions for control of compilation were omitted:

Station	Sheet	Reason for Omission	Supplemented by Station
BEAR 1911 BRUIN U.S.E. 1937)	10341	In dense timber, could not identify	GROUSE 1957 (temporary)
APEX 1939	10340	In dense timber, could not identify	No substitution
Main Channel Beacon	10341	Mis-plotted on Project	
4, 1935		Diagram by Wash.Offic	8
BAKER WEST BASE 1851)	10340	Not recovered	Sock 1958
POINT B 1851			
Ilwaco Channel Light) No. 9, 1937	10345	Not recovered	Ilwaco Dock Light 1958
DOCK 1926)		•	
POINT (USE) 1913)	*		
WORKY 1939	19347	Not recovered	SLOPE 1957 (temporary)
BAY U.S.E. 1936	10349	Not recovered	Knappton Taller Smoke Stack 1935
GRAYS BAY 1952	10350	Not recovered	Rocky Point
Rocky Point Light 1935)			Light 1958
GRAYS RIVER 1852)	10351	Not recovered	DEEP 1935

(e) The following stations established by the Coast and Seodetic Survey were not searched for:

Station

Reason

TARSY POINT 3, 1935 INDIAN PT. 1851

Original description not adequate No description available

The following stations were listed as lost or destroyed on orm 526:

Sheet 10340

Red House in Cove, Shingle Roof 1926

Sheet 10341

PT. B 1851

Sheet 10344

DRIFT 1942 DRIFT 2, 1956

Navy West Wireless 1913 North Head Radio Pole 1909

Sheet 10345

POINT 2, 1926 BAKER 1935 **SANDS 1935** DOCK 1926 **START 1926**

HILL 1926

Ilwaco High School Dormitory, Projection over Entrance 1926 BAY 1935 Sand Island Lower Dike Light 1935 Sand Island Tower 1935

Sheet 19346

CHINOOK (U.S.E.) 1913 BAKER (NEW)(U.S.B.) 1935 SAND 1952 BAKER BAY 1851 Chinook Channel Front Range Light 1913 Chinook, Red Water Tank, 1935 Entrance Front Range 1935 Entrance Rear Range 1935 Sand Island White Water Tank 1935 Sand Island Post Light 1913

Sheet 10347

SCARBORO HILL 1851

COLUMBIA 1942

CLIFF POINT 1851 KNAPP 1935
Knappton, Sawmill Cupola with Flagpole 1913
Knappton, Taller Smoke Stack 1935
Megler Front Range Board 1935
Megler Water Tank 1913

Sheet 10350

ALAMICUT PT. 1852 Grays Bay Light 1935 Graye Bay Light 1947
Rocky Point Light 1935

Sheet 10351

Altoona Cannery, Light on End of Jetty 1935
*Elliot Point Light 1913
*Elliot School Flagpole 1935
Harrington Point Front Range Light 1935
Levenhausens Store, Flagpole 1913
Harrington Point Rear Range Light 1935
Miller Sands Channel 4 1947
Miller Sands Fish Barn, River Gable 1935
*Pillar Rock Channel Light 2
*Pillar Rock Dolphin 1935
*Pillar Rock Channel Light 1, 1935

Stations preceded by an asterisk (*) are east of Sheet 10351.

Sheet 10352

EAST JETTY 1926 Jetty Sands Light 1935 Tank Tower Beacon 1926 WEST JETTY 1926

Sheet 10353

Coast Guard Lookout Tower 1935

DUNE 1935

DUNE 1935

Naval Radio Compass 1935

North Radio Mast 1926

JETTY A 1909

Fort Stevens North Radio Pole 1935(good for topo, lost for Triang.)

Fort Stevens South Radio Pole 1935(good for topo, lost for triang.)

Fort Stevens Wharf, Flashing Red Light 1935

Fort Stevens Wireless, North Pole 1913

Hadio Compass Aerial Mast 1935

RADIO ESCENTRIG31926

SANDY 1935

Flavel Range Front Light 28, 1951
Flavel Range Rear Light 1951
Fort Columbia Light 1913
Lower Sands Light 1935
Point Ellice Range Front Light 1951
Priest's House, Cross 1851
SANDS 2, 1916
TANSY POINT 2, 1913
Tansy Point, East House, Offshore Cable 1951
Tansy Point, Flavel Tank Platform 1951
Tansy Point, West House, Upstream Gable 1951

Sheet 10355

Astoria Box Co., Tallest Stack 1935 Astoria, Columbia River Packing Association, Stack 1935 Astoria Ferry, Lower Front Range Light 1938 Astoria Ferry, Upper Front Range Light 1938 Astoria, Finnish Congregationalist Church, Spire 1913 Astoria, Flour Mill Co., Flagpole 1916 Astoria, Hotel, Northeast Radio Mast 1935 Astoria, Hotel, Southwest Radio Mast 1935 . Astoria, Municipal Dock, Elevator, Point of Top 1916 Astoria, Old Parker House Cupola 1935 Astoria, Railroad Depot, Flagpole 1935 Astoria, St. Marys Hospital Cross 1909 Astoria, U. S. Weather Bureau, Flagpole 1913 Astoria, U. S. Weather Bureau Tower 1935 Astoria, Union Oil Company, Marine Service Station Downstream Cable 1935 Knappton Channel, Front Range Light 1935 POINT ELLICE 1851 Upper Sands Light 1935

Sheet 10356

Astoria, Adair School, Cupola 1909
Astoria, Full Gospel Church, Spire 1935
Buoy Deport, Flag 1913
Main Channel Beacon 2, 1935
OLD TONGUE (U.S.E.) 1905
OLD TONGUE 2 (U.S.E.) 1935
Tongue Point Crossing Light 1935
SLIDE 1935
TONGUE POINT 1851
TORO 1935

Beacon 2, 1916
Harrington Foint Front Range Light 1935
Main Channel Beacon 4, 1935
Prairie Channel East Light 1947
Prairie Channel West Light 1947
Tongue Point Channel Rear Range Light 1935

Sheet 10358

Green Island Fish House, North Gable 1935 10G 1935 Megler's Fish House, South Gable, Flag 1913 North Island, Dolphin 1950 SNAG 1935 Snag Island Beacon 1935 Snag Island Fish Station, Northeast Gable 1950 Snag Island Fish Station, Northwest Gable 1950 WATER 1913

Sheet 10359

GALENA (ASTOR) 1926 Top of Mast of Beached Ship 1926

Sheet 10360

DOG 1951
MARSH PT. 1, 1851
Oil Works Stack 1913
Skeppernawin Cr. 1851
SKIPPAN 1951
Skipanon Waterway Light 1935
Skipanon Waterway Front Range Light 1951
Skipanon Waterway Rear Range Light 1935
Youngs Bay Entrance Light 1935

Sheet 10361

Astoria Ferry Lower Range Rear Light 1938
ASTOR POINT 1851
Astoria, Marconi Southwest Wireless 1913
Astoria, Radio Station KVAS, Tower 1951
COXCOMB 1916
LUNDMAN 1935
LEWIS 1916
NATTSON 1935
Smith Point, Iron Chimney 1909
Younge Bay Light 1935
YOUNGS RIVER 1851
65 / 20 1935

ASTORIA FERRY, UPPER REAR RANGE LIGHT ECC. 1938 Astoria Ferry, Upper Rear Range Light 1938

Sheet 10363

JOHN DAY 1935 JOHN DAY POINT 1851

Sheet 10364

SETTLERS POINT 1851

Sheet 10650

CALLENDER 1874 SYLAR 1926

In Sheet 10348, the base of the old stack which was station Knappton. Taller Smoke Stack 1935 was found and identified for control of the compilation.

Vertical Control:

As Project Ph-155 is a planimetric project, no systematic redovery of vertical control was made except for tidal bench marks. A few bench marks with horizontal positions by the 29th Engineers were recovered for control of the photographs. See 3. (c).

The following tidal bench marks were recovered:

Tarlatt Slough, Willapa Bay, Washington (Sheet 10340)

BENCH MARK 2 (1933) BENCH MARK 3 (1933)

Fort Canby, Columbia River, Washington (Sheet 10345)

BENCH MARK 1 (1926)

BENCH MARK 3 (1926) BENCH MARK 4 (1951)

BENCH MARK MDW (1942)

Ilwaco, Baker Bay, Columbia River, Washington (Sheet 10345)

BENCH MARK 1 (1933)

BENCH MARK 3 (1933)

BENCH MARK 5 (1945)

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Chinook, Baker Bay, Columbia River, Washington
                                          (Sheet 10346)
 BENCH MARK 1 (1933)
 BENCH MARK 2 (1933)
 BENCH MARK 3 (1933)
 BENCH MARK 4 (1933)
BENCH MARK 5 (1952)
      Hungry Harbor, Columbia River, Washington (Sheet 10348)
 BENCH MARK 1 (1935)
 BENCH MARK 3 (1945)
 BENCH MARK 4 (1945)
      Altoona, Columbia River, Washington (Sheet 10351)
 BENCH MARK 3 (1935)
BENCH MARK 4 (1940)
BENCH MARK 5 (1940)
BENCH MARK 6 (1950)
      Fort Stevens, Columbia River, Oregon (Sheet 10353)
 BENCH MARK 1 (1935)
 BENCH MARK 2-10 (USGS)-9.68 (P.P.& L.Co.)
 BENCH HARK 3 (1940)
 BENCH MARK 4 (1940)
BENCH MARK A-1 (USE)
BENCH MARK A-2 (USB)
BENCH MARK S-31=A-3 (USE)
BENCH MARK A-121=18 (USGS)
BENCH MARK 17.80 (P.P.& L.Co.)
BENCH MARK 12.40 (P.P.& L.Co.)
      Astoria (Youngs Bay), Columbia River, Oregon (Sheet 10361)
BENCH MARK Pl (1924)
BENCH MARK P 2 RESET (1929)
BENCH MARK P3 (1924)
BENCH MARK 17 (1931)
     Astorie (Port Docks), Columbia River, Oregon (Sheet 10355)
BENCH MARK 13.26 (Port of Astoria)=W 193 (OSHD)(1926)
BENCH MARK 3 (1946)
BENCH MARK 4 (1946)
```

	o-acon fi	sheet 10356)
Astoria (Tongue Point),	olumbia River, Orsa	
Astoria (Tongue Forman	BENCH MARK 9 (1942) BENCH MARK I 198 (1940) BENCH MARK W 198 (1940) BENCH MARK G 472 (1941)	}
MARK 1 (1925)	BENCH MARK G 472	
BENCH MARK 3 (1925) HENCH MARK 5 (1939) HENCH MARK 7 (1939) HENCH MARK 8 (1940)	BENCH CONSUM (Sheet) BENCH MARK 10 (1929) BENCH MARK 11 (1945) BENCH MARK P-31 8	0364)
HENCH MARK 8 (1940) HENCH MARK 8 (1940)	a RIVETA USARK 10 (1929)	1898)
<u>Settler 10</u>	BENCH MARK 10 (1945) BENCH MARK 11 (1945) BENCH MARK P-31 8	(USGS)\-
BENCH MARK 3 (1947) BENCH MARK 4 (1947) BENCH MARK 5 (1947)	O	
Boich Pater Brainage!	aroject.	the fiel

Contours and Drainage:

Brainage in the flat coastal areas was delineated on the field Contours not applicable to this project. photographs where not obvious. Except to indicate direction of photographs where not opvious, except to indicate direction of drainase where it is crossed by roads, no attempt was made to drainage where it is crossed by rosus, no accompt was made to delineate drainage in the rougher terrain which is mostly covered to be because the beauty of the drawn and the base of the ba delineate drainage in the rougher terrain which is mostly covered by heavy growth of timber. Generally the issue of the stream bed tein a perennial stream. Generally the issue of the stream and a perennial stream. tein a perennial stream, Generally the large of the stream bed is not visible an the photographs due to the woodland cover which is often decinuous arong the streams. Into sectionous cover produces lighter tones when photographed as compared with the adis often deciduous along the streams. joining darker tone of the conifers.

Representative areas of woodland cover were classified on the rield photographs. The hills are covered mostly with conifers rield photographs. The mills are covered mostly with conliers of while the drains and marshy lowlands support a deciduous growth of while the drains and wild erahapple. In logged-over areas the while the drains and marshy lowishes support a deciduous grown of the alder, maple, willow and wild crabapple. In logged-over areas the alder, maple, willow and wild crabapple. erowth is usually mixed, the deciduous growth being mostly wine

The mean high water line was indicated on the field Shoreline and alongshore Features: photographs in the usual manner. In many places along the ocean photographs in the usual manner in many pieces along the determined shoreline the position of the mean high water line was determined maple. anoreline the position of the mean night water line was determine by reference measurements to identificable points on the photographs. The shoreline at the north end of Clatsop Spit on the graphs. The shoreline at the north end of Clatsop Spit on the north side of the south jetty was located by planetable on the south jetty was located by plan north side of the south jetty was located by planetable on Photo of 1957. Also approximately two miles of 1957. Also approximately two miles of 1957 also approximately two miles of the summer of 1957. 55 W Soul in the summer of 1957. Also approximately two miles of ocean shoreline in Sheet 10359 were located by Planetable in 1957. ocean shoreline in Sheet 10757 were located by Planetable in 1777.

Thas shoreline is subject to seasonal changes and is correct as of the date of location.

Shoreline dn Sheet T-10650 for which no photographs were available was located by planetable on a 1:10,000 projection in 1958 and submitted to the Portland Photogrammetric Office with the field inspection data.

Shoreline on the east side of Jetty A and the south side of Sand Island (Sheet 10345) was located by planetable on the field photographs.

- b. The approximate mean low water line was delineated in the marshy area in Cathlamet Bay.
- c. The character of the foreshore was indicated on the field photographs.
- d. The only bluff or cliff in the project that is along the ocean shoreline is at North Head, where the cliff rises to more than two hundred feet above the water. The most prominent cliff along the Columbia River is Cape Disappointment. Here the cliff rises to around three hundred feet. There are numerous other low cliffs and bluffs along the north shore of the river.

There are no bluffs or cliffs in the project area on the south side of the Columbia River except at Tongue Point where the bluff rises to a height of approximately two hundred seventy-five feet and at John Day Point where a vertical cliff attains the height of seventy feet.

- e. All docks, wharves, piers, landings, etc. were indicated on the field photographs.
- f. The shore ends of submarine cable crossings were indicated on the following field photographs:

Photo	Type of Crossing	Body of Water
55 W 8644	Communication	Columbia River
55 W 8645	Communication	Columbia River
55 W 8669	Communication	Columbia River
55 W 8593	Communication & Power	Lewis and Clark River
55 W 8602	Communication	Skipanon River
55 W 8603	Power	Younge River
55 W 8625	Communication	John Day River
55 W 8625	Power	Cathlamet Bay at
	•	Maritime Reserve Fleet
55 W 8623	Communication	Columbia River
55 W 8629	Communication	Columbia ^R iver
	•	the second secon

The submarine cable crossings in Baker Bay have been abandoned and are in various stages of salvage.

At Ilwaco a new boat basin was completed while the field party was in the area. It was located by planetable on a field photographs of the area. A new boat basin at Chinook was also located by planetable on a field photograph. Tide gates at or near the mouth of the Chinook and Wallacut Rivers close these streams to navigation. The north shore of the mouth of the Columbia is stabilized by a boulder jetty, known as the North Jetty. A similar jetty, known as the South Jetty, is on the south side of the river at the mouth. A boulder jetty, known as Jetty A, projects southward from the southeast extremity of Cape Disappointment. Four pile dikes have been constructed to control the river current erosion of the south shore of Sand Island. South of the village of Chinook there is a pile dike known as Chinook Dike. Earth dikes have been erected along much of the shoreline of the Deep. Grays and Bear Rivers to prevent inundation of the low ground which has been reclaimed for pasture and cultivation.

8. Offshore Features:

Offshore rocks are present in the vicinity of North Head and Tongue Point. There are numerous piling in the river, especially in Baker Bay. Some of these were located by planetable and stadia from shore, others by sextant fixes and check angles which were plotted directly on the photograph in the field and others were circled with a dashed line and labeled "approximate position". Pixed aids to navigation which are offshore were located by third-order triangulation unless they had previously been located by that method. See 9 d.

The mast of a wreck on the north side of the north jetty and close to shore was located by theodolite cuts from stations BURNT 1956, TRESTLE 1942 and T3N, RILW Secs. 5, WCMC, 1956. The angles are recorded on the field photograph that covers the area.

Heights of rocks and piling were estimated and heights of fixed aids to navigation were obtained from the "List of Lightm and Other Marine Aids, Pacific Coast of the United States, 1958 Edition".

Landmarks and Aids:

- a. All charted landmarks within the project area were inspected and those that are no longer useful or cease to exist were listed on Form 567 to be deleted. All charted landmarks that are still useful and new landmarks were listed on Form 567 to be charted. Heights of landmarks were determined by vertical angles from points of known position and elevation.
- b. One interior landmark to be located photogrammetrically was selected namely:

TANK 1957 identified on 55 W 8722

- c. The only aeronautical aid in the project area is the aero beacon at the Clatsop County Airport. It was identified on Photo 55 W 8594 and is to be located photogrammetrically.
- d. The following fixed aids to navigation were located by third-order triangulation methods in 1958:

Astoria Crossing Range Front Light Astoria Crossing Range Rear Light Astoria Lower Range Front Light Astoria Lower Range Rear Light Baker Bay East Channel Light 2 Baker Bay East Channel Light 6 Baker Bay East Channel Light 13 Baker Bay East Channel Light 15 Baker Bay West Channel West Jetty Light Baker Bay West Channel East Jetty Light Baker Bay West Channel Light 22 Chinook Dike Light Desdemona Sands Light Grassy Island Light 8A Grays Bay Light Harrington Point Channel Light 52 Harrington Point Channel Light 54 Harrington Point Range Rear Light Ilwaco Basin Entrance Light Ilwaco Dock Light Megler Range Front Light. Mehler Range Rear Light Miller Sands Upper Range Front Light Miller Sands Upper Range Rear Light Pillar Rock Lower Range Rear Light Prairie Channel Light 3 Quarantine Light Sand Island Lower Dike Light Sand Island Range Front Light Tongue Point Crossing Light 49

e. Floating aids to navigation - not applicable.

10. Boundaries, Monuments and Lines:

Boundaries of Camp Clatsop Military Reservation, Fort Stevens Park, Oregon State Game Refuge, Fort Stevens, Coast Guard Lifeboat Station at Point Adams, Port Clatsop, City of Hammond and City of Warrenton were located in the following manner: Plats or maps of the boundaries were obtained and enough points on the boundaries identified on the field photographs and the maps to enable the compiler to control a projection of the map onto the manuscript. The points were designated by capital letters of the alphabet and cross-referenced on the maps and the field photographs. Violet ink was used. A tabulation of the points identified follows:

	•		20.
		•	
	•		
Point	<u>Photo</u>	Boundary	<u> Нар</u>
A	57 L 1823	Camp Clatsop	Elue print sheet 9-7-10
В	57 L 1823	Camp Clatsop	Blue print sheet 9-7-10
C	57 L 1823	Camp Clatsop	Blue print sheet 9-7-10
D	57 L 1823	Camp Clatsop	Blue print sheet 4-7-10
E '	57 L 1822	Camp Clatsop	Hlue print sheet 4-7-10
F	55 W 8596	Camp Clatsop	Blue print sheet 32A-8-10
G	55 W 8596	Camp Clatsop	Blue print sheet 29-8-10
			and City of Warrenton
Н	57 L 1819	Fort Stevens	Map of Fort Stevens Park
J	57 L 1820	Fort Stevens Park	Map of Fort Stevens Park
ĸ	57 L 1820	Fort Stevens	Map of Fort Stevens Park
Ĺ	57 L 1819	Fort Stevens Park	Map of Fort Stevens Park
M	55 W 8634	Hammond -	Tracing of Fort Stevens
		Warrenton	Addition to City of Hammond,
	1.0	•	City Hap of Hammond, City
	1 to 1	•	Nap of Warrenton, Fort
			Stevens Management Area (Oregon State Game Commission)
			and Fort Stevens Park
N	55 W 8634	Warrenton	Fort Stevens Fanagement Area
N	77 H 6074	Hert tottoott	(Oregon State Game Commission)
	.e.		and City Map of Warrenton
P	55 W 8634	Oregon State	Fort Stevens Management Area
. 	אַנָטט אָן נֶלֶ	Game Refuge -	(Oregon State Game Refuge)
•	• •	Fort Stevens	and Map of Fort Stevens
Q	55 W 8634	Harmond -	Tracing of Fort Stevens
•)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Addition to City of Hammond
			and Map of Fort Stevens
R	55 W 8634	Harmond -	Map of Fort Stevens, Map
7.		Fort Stevens	of Hammond and tracing of
	·		Fort Stevens Addition to
		. :	City of Hammond.
S	55 W 8634	Fort Stevens	Map of Fort Stevens
T, U,	55 W 8634	Hammond -	Map of Coast Guard Lifeboat
V & W		Coast Guard	Station, Point Adams, Hammond,
	•	Lifeboat Sta-	Oregon
* . *		tion, Point	
X	55 W 8633	Hammond -	City map of Hammond, City
		Warrenton	Map of Warrenton
Ÿ	55 W 8634	Hammond	Tracing of Fort Stevens
			Addition to City of Hammond City Map of Warrenton
2	55 W 8595	Warrenton	ATON 1905 OF BUTTAINOUT

<u>Point</u>	Photo	Boundary	<u> Мар</u>
AA	.55 W 8595	Warrenton	City Map of Warrenton
BB	55 W 8595	Warrenton	City Map of Warrenton
CC	55 W 8594	Warrenton	City Map of Warrenton
DD	55 W 8594	Warrenton	City Map of Warrenton
EE	55 W 8594	Warrenton	City Map of Warrenton
PF	55 W 8594	Warrenton	City Map of Warrenton
GG	55 W 8593	Fort Clatsop	Tracing, Plat of Fort Clatsop
НН	55 W 8593	Fort Clatsop	Tracing, Plat of Fort.
Concrete Monument	55 W 8633	Harmond - Warrenton	City Map of Hammond

No points on the city limit of Astoria were identified. In a conference with the city engineer of Astoria, it was learned that there is only one marked point on the boundary. In a discussion of boundaries with the Officer-in-Charge, Portland Photogrammetric Office, it was decided that the Map of Astoria furnished by the city engineer and submitted with the field data for this project is adequate for the compiler to transfer the Astoria City Limit to the manuscripts.

In the vicinity of Tongue Point, Boundaries of the U. S. Coast Guard Buoy Depot, U. S. Naval Station and U. S. Maritime Commission may be obtained by the compiler from a Composite Map, U. S. Naval Station, Tongue Point, dated 10 September 1953. No points on these boundaries were identified on the photographs in the field.

Geodetic positions of turning points on the boundary between Washington and Oregon were obtained from the Oregon-Washington Eoundary Commission.

The city limit of Longbeach, Washington was delineated on the field photographs.

The limits of Fort Canby, North Head Lighthouse Station and Cape Disappointment Lighthouse Station were not located in the field. Plats of these boundaries were submitted to the Portland Office.

No points on the city limit of Ilwaco, Washington were identified. A plat was obtained from the County Engineer and submitted to the Portland Office.

One point on the boundary of Fort Columbia State Park was identified on a field photograph. A plat of the park obtained from the Washington State Park Commission was submitted to the Portland Office.

11. Other Control:

The spacing of recoverable topographic stations was complied with. The following recoverable topographic stations not listed as landmarks or aids were established and located by photogrammetric methods:

Sheet 10359

JEEP 1957

DUNE 1957

During the spring and summer of 1958, photo-hydro support for the hydrographic party was accomplished by ENS Wesley Pl James, who identified photo-hydro points on photographs and transferred the points to black-line prints of the shoreline manuscripts. The field location of these points was considered final. Photographs for this work were obtained from the hydrographer and returned to the Portland Photogrammetric Office.

12. Other Interior Features:

Previous to the receipt of Photogrammetric Instruction 54, all buildings to be mapped were circled on the photographs with red ink. After receipt of this instruction, only landmarks and public buildings were shown.

Before receipt of Photogrammetric Instruction 56, roads and trails were classified in accordance with Topographic Manual - Part II, Section 5441. Upon receipt of said instruction, roads and trails were classified in accordance with the new instruction.

Clatsop County Airport has been indicated on Photo 55 W 8602.

A tabulation of bridge and overhead cable clearances follows:

Bridge Clearances in Feet

Stream	Type	<u>Loft</u>	orizonta Center	<u>l</u> Right	Vort.	Time	Hwy or RR
Lowis and	Bascule		100	•	15.3	OMIN	livy 101
Clark River Skipanon River	Fixed	* *	34		2.9	gt.	Hwy 101
ikipanon River	Floating		37		4.3	n	Hwy (county)
Skipanon River	Swing	15	•	33	2.3	ti ·	RR (SP&S)
Svensen Slough	Fixed	•	22		10	u.	Hwy (county)

Bridge Clearances in Feet

Stream	Туре	Morizontal Left Center	Right	Vert.	Time	Hwy or RR
Youngs Bay	Double Bascule	151	•	20	OMHW	Hwy 101
Youngs Bay John Day River	Swing Swing	126 45	129	10 17	8) ·	RR (SP&S) Hwy 30
John Day	Swing	59	59	6.0	tı	RR (SP&S)
Walluski River	Swing	50	49	5.0	n .	Hwy

Overhead Cable Clearances in Feet

Type	Located	Photo	Clearance Above	Temperature (Fahrenheit)
Power	Skipanon River near RR bridge	55 W 8602		60
Power	Skipanon River near Highway 101	55 W 8602	59	55
Power	Lewis and Clark R. at Highway 101	55 W 8593	86	55
Communi-	Skipanon River at Highway 101	55 W 8601	17	50
Power	Walluski River	55 W 8591	61	55
Power	John Day River 2200 feet north of Highway 30	55 W 8606	99	55
Commini- cation	John Day River on south side: of Highway 30	55 W 8606	57	55
Power	John Day River 1200 feet southeast of bridge over Highway 30	55 W 8606	73	55

13. Geographic Hames:

OGeographic names is the subject of a special report - GEOGRAPHIC NAMES REPORT - PART I and PART II, MOUTH OF COLUMBIA RIVER, ORECON, PROJECT PH-155.

14. Special Reports and Supplemental Data:

No special reports other than the Geographic Names Report were compiled.

The following maps, tracings and plats were obtained to assist in the compilation of the manuscripts:

- a. Blue print of Camp Clatsop Military Reservation in six parts.
- b. Ozalid of Fort Stevens Park.
- c. Ozalid of Oregon State Game Refuge.
- d. Map of Fort Stevens
- e. City Map of Hammond.
- f. City Map of Warrenton
- g. Tracing of Fort Stevens Addition to City of Hammond
- h. Tracing of Plat of Fort Clatsop
- j. City Map of Astoria
- k. Composite Map, U. S. Naval Station, Tongue Point

Approved:

Respectfully submitted,

Lorne G. Taylor LCDR, C&GS Officer-in-Charge Charles H. Bishop Cartographer

Robert B. Melby Cartographic Survey Aid

Photogrammetric Plot Report T-106h9 Ph-155 Mouth of Columbia River Scale 1:10,000

21. Area Covered:

This report applies to the single map T-106h9. It is the most northwesterly map of the project and covers some of the coastline area of the Pacific Ocean just north of the Columbia River mouth.

22. Method:

A standard bridge consisting of stereo-models 57-L-1830 thru 1835, was run to obtain additional control for compilation. Seven field identified triangulation stations were available in the area covered. A three point solution by IBM was used to obtain positions for all bridge points identified. No difficulty was encountered in either the bridging or computational phase of this project.

23. Adequacy of Control:

Horizontal control available for the stereo-bridging was adequate.

Triangulation station S.S. Tioga could not be clearly identified and was omitted.

24. Supplemental Data:

None

25. Photography:

Photography was adequate. Only the westerly flight was bridged since it also covered the western shoreline of Shoalwater Bay.

Submitted:

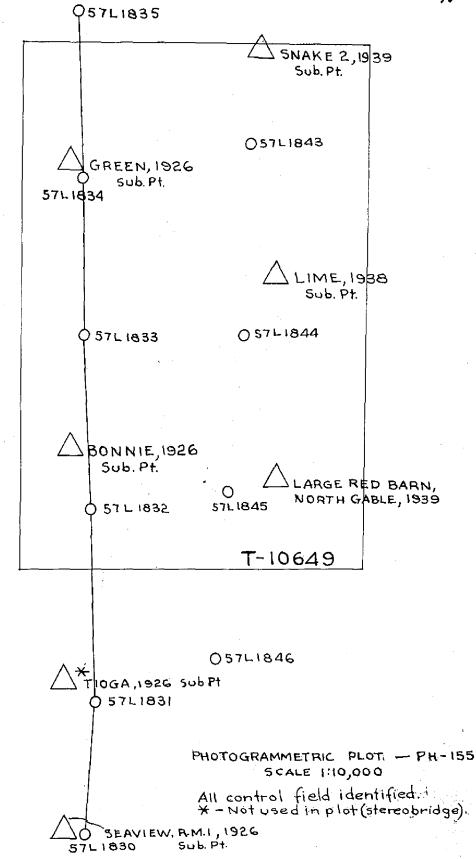
Approved:

John Perrow, Jr.

Cartographer (Photo)

Morton Keller

Supervisory Cartographer (Photo)



DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

MAP T. 10649		PROJECT NO.	ST NO. Ph-155	SCALE OF MAP 1:	:10,000	SCALE FACTOR	None
STATION	SOURCE OF INFORMATION (INDEX)	II			DATUM	N.A. 1927 - DATUM DISTANCE FROM GAID OR PROJECTION LINE FROM GAID OR PROJECTION LINE FORMAN	FACTOR DISTA
GREEN, 1926	Wash.	N.A. 1927	1.101.297.67	(15)		77	FORWARD (BACK)
Ditto Sub Point	Office Comp.	N.A.		. [그] 니		- ~ ~	
KLIPSAN, 1926	wash. So. 2 P-216	N.A. 1927		12 -			
Ditto Sub Point	Office Comp.	N.A. 1927	1,104,855.13	2965.81 (2034.19)		12,73.7 (50.3)	
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Ditto Sub Point	Office Comp.	N.A. 1927	1,113,070.57			8 (958.	
SNAKE 2, 1939	Wash. Sols	N.A. 1927	1,112,995,90	2250.08 (2769.92)		C C	
Ditto Sub Point	Office Comp.	N.A.	112,722.3	1 ~ ~			
BONNIE, 1926	Wash S P.216	N.A. 1927	1,103,804,41			[리~	
Bonnie, 1926 Sub Point	Office Comp.	N.A. 1927					110
LARGE RED BARN, Wash S North GABLE, 1939 P. 158	Wash S. 9P.158	N.A. 1927	403,557.39 1,113,069.59			~ ~ ~	
SOMPUTED BY:	E. W.	DAT	DATE 2/18/58	CHECKED BY. R.B.M.	M.	DATE 2/18/58	58 comm. DC. 57843

Compilation Report T-10649

Stereo-models 57 L-1832 thru 1835 were detailed. All control and bridge points were held to within 0.2 mm. Only the shoreline necessary for hydrographic operations was detailed. The field inspection delineates the mean high water line on the photographs at the point of contact of water and sand. The water datum at time of photography was 1.2 feet below MHW and it appears that the MHW line is % slightly further inshore and has been so delineated. Verification of the mean high water line should be made in the field. Detail points, pass points, and photo-centers were shown on the manuscript. A set of office ratio prints on positype paper was prepared for use during hydrographic operations for locating signal positions by photogrammetric methods.

The manuscript will be fully detailed as a planimetric map at a later date and a compilation report following the standard format will be written at that time.

Submitted:

John Perrow, Jr.

Cartographer (Photo)

Approved:

Morton Keller

Supervisory Cartographer (Photo)

73/rab

10 January 1958

To:

Officer in Charge Portland Photogrammetric Office Sonst and Geodetic Survey 405 Oustonhouse Portland 9, Oregon

To:

Cartographic Branch

Subject:

Instructions, planimetric mapping (Field and Office) - Project PM-155, Lower Columbia River Supplement 2

References:

- a) Instructions, planimetrie mapping (Field and Office) Project 6155 dated 5 Oct. 1955
- b) Instructions, planimetric mapping (Field and Office) Project 6155 Supplement 1 dated 12 October 1955

Two new maps Nos. T-10649 and T-10650 have been added to this project for control of mext season's hydrography. The maps are on the outer coust as indicated on the revised project diagram.

Field surveys are assigned to the Portland Bhotogrammetric Office. A minimum amount of field work will be required this winter as indicated on the revised project diagram. Additional field surveys as outlined in reference instructions shall be completed by the photohydro support party during hydrography.

Compilation of map T-10649 is assigned to the Carte-graphic Branch. Compilation of map T-10650 is assigned to the Portland Photogrammetric Office.

Delineation of features shall be restricted to the shoreline sections of the maps this winter. Method I of general instructions dated Il January 1956 shall be ebserved. The Portland Photogrammetric Office will complete both maps under method 2 after field surveys are complete and additional photographs have been ebtained.

Infra-red photography taken in 1957 shall be used for bridging and compilation of both maps. This photography gives an unusually clear and positive contact line between water and the beach. We inspection of shoreline on the outer coast will be required.

Photography is incomplete for map T-19650 and does not extend south of intitude 46'-05'. Shoreline and signals south of this point will be located by plane-table acthods by the photo-hydro support unit.

(Signed) Charles Pierce;

Assistant Director

C6: Portland District Office 20 83

COMPILATION REPORT

Map Manuscript T-10649

Project Ph-155

31. Delineation:

The alongshore features and interior details were compiled on the Kelsh Instrument using diapositives made from infrared photography. Field inspection was adequate.

32. Control:

Identified horizontal control and that located in the stereoplanigraph bridge was adequate.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

Drainage was field inspected and easily discernable in the Kelsh Models. Reference was made to the U.S.G.S. $7\frac{1}{2}$ minute quadrangle Ocean Park, Washington.

35. Shoreline and Alongshore Details:

Refer to Compilation Report by John Perrow, Jr. Which is included in this descriptive report.

The area of the shoreline referred to in this report is constantly changing and it is practically impossible to return to the site and ascertain the accuracy of a mean high-water line delineated from photographs taken at a predicted tide of 1.2 ft. below mean high-water. No attempt was made to verify the Washington Office interpretation of the mean high-water line.

Foreshore areas were detailed where visible on the photographs.

Approximate low-water lines could not be determined from the photography.

36. Offshore Details:

None.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

A satisfactory junction was made to the south with T-10340, to the west is the Pacific Ocean. There are no contemporary surveys to the north and east.

40. Horizontal and Vertical Accuracy:

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

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. $7\frac{1}{2}$ minute Ocean Park, Wash. quadrangle, Scale 1:24,000, Published 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6185, 39th Edition July 4, 1960, hand corrected to May 13, 1961, Scale 1:40,000 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:

Respectfully submitted:

Fred Natella, CAPT, C&GS Portland District Officer

for Lorne G. Taylor, CDR, C&GS

J. Edward Deal Cartographer

Map Manuscript T-10649

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

All triangulation stations shown were recovered and identified during field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW T-10649

1. Projection and grids	3. Menuecript num	bers4. Ma	nuccript elso
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48. Geographic Names:

Albers Slough Breaker Lake Briscoe Lake Clam Lake Cranberry Lake Deer Lake Freshwater Lake Giles Lake Giles Slough Island Lake Litschke Lake Loomis Lake Lost Lake North Beach Peninsula Oceanside Pacific Park *Shoalwater Bay Tape Lake

* B.G.N. Decision

Geographic Names Section 13 February 1962

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	8 36,000	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	186 9	4251	20,000	1926
1139a&b	10,000	1869	6724ab	10,000	1936
1234	10,000	1870	6725ab	10,000	1935
1249	10,000	1870	65216	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 inconsistances.

65. Comparison with Nautical Charts:

5002 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:

Approved:

L. C. Lande, Chief Review and Edit Section

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>T-10649</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
9-14-79	18504 (6185)	D.C. Larson	Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
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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.