

8811

8811

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey <u>Planimetric Air Photographic</u>	
Field No.	Office No. <u>T-8811</u>
LOCALITY	
State	<u>OREGON</u>
General locality	<u>Willamette River</u>
Locality	<u>Newberg</u>
<u>194 7</u>	
CHIEF OF PARTY	
<u>R. A. Earle</u>	
LIBRARY & ARCHIVES	
DATE	<u>January 8, 1948</u>

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Willamette River, Oregon

SHEET NO. T-8811

LOCALITY Newberg, Oregon

PROJECT NO. Ph-13(46)

PHOTOS ORDERED Dec., 1946 REC'D 14 Jan., 1947

SCALE 1:10000

PROJECTION ORDERED Dec. 1946 REC'D 13 Jan., 1947

Joins None Ck.....

CONTROL:

COMPUTED Harris VERIFIED Davidson

PLOTTED Davidson VERIFIED Harris

PHOTO PREPARATION:

CONTROL Harris

AZIMUTHS Davidson

PASS POINTS Harris & Davidson

TEMPLATES Harris VERIFIED Davidson

RADIAL PLOT: Harris

PLOTTED BY Davidson DATE 3-13-47

VERIFIED Deal DATE 3-14-47

COMPILATION:

DETAIL POINTS H. Letson DATE 5-2-47

DETAIL BY Helen Letson DATE 6-23-47

VERIFIED BY R. H. Barron DATE 7-21-47

DATE OF PHOTOS 8-9-46

TIME OF PHOTOS Not listed

STAGE OF TIDE Water level is a gradient between the elevations of the U.S.E. river gages.

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

Due to a scale difference, only a visual comparison was made with portions of the USGS Tualatin, Yamhill, McMinnville and Mt. Angel, Oregon 15 min. quadrangles. The planimetry which is common to the map manuscript and quadrangle maps is in good agreement.

REMARKS Complete planimetric detail along both shores of the Willamette River and within a zone averaging 300 meters in width on each side of the river has been compiled. Inshore from this area only skeleton planimetric details are shown

FORWARDED TO Washington Office DATE 7 August 1947

R. A. Earle
R. A. Earle
Chief of Party

DATA RECORD

T-8811

Yamhill, Oregon

Tualatin "

Quadrangle (II): Mt. Angel "

McMinnville "

(USGS) 15 minute

Project No. (II): Ph-13(46)

Field Office: Portland, Oregon Chief of Party: R. A. Earle

Compilation Office: Portland, Ore. Chief of Party: R. A. Earle

Instructions dated (II III): 8 October 1946 Copy filed in Descriptive Div. of Photo-
 Supplemental Instructions: 4 November 1946 Report No. T-~~VI~~ (VI)

Grammarly Office Files

Completed survey received in office: 8/12/47

Reported to Nautical Chart Section: 8/15/47

Reviewed: 10/29/47 Applied to chart No. _____ Date: _____

Redrafting Completed:

Registered: 12/26/47

Published:

Compilation Scale: 1:10000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N. A. 1927

Datum Plane (III): * See below

Reference Station (III): DUNDEE, 1940 r 1946

Lat.: $45^{\circ} 16' 02.367''$ (73.1m) Long.: $123^{\circ} 03' 26.945''$ (587.4m) Adjusted x
 Unadjusted

State Plane Coordinates (VI): OREGON NORTH ZONE (ruled in red on the
 manuscript)

X =

Y =

Military Grid Zone (VI)

The adopted plane between Oregon City and Newberg is 52.0 ft. above M.S.L.
 South of Newberg the plane is a gradient between elevations above M.S.L. of USE
 river gages. All bench mark elevations are referenced to M.S.L. and are on the
 Standard 1929 general adjustment of leveling in the U.S.A.

See remarks - page 3

YAH

PHOTOGRAPHS (III)

<u>Number</u> <u>Nine Lens</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage or Tide</u> <u>Water Level</u>
17266 to 17268 Inc.	8-9-46	Not listed	1:10000	52.78 ft. above M.S.L.
17269 to 17271 "	8-9-46	"	1:10000	52.78 ft. " "

Tide from (III): None

Mean Range: None

Spring Range: None

Camera: (Kind or source) U.S.C. & G.S. 9 lens, focal length 8.25 inches

Field Inspection by: J. C. LaJoye (Shoreline) Feb., 1947
 J. H. Winniford (Interior) date: Dec., 1946
 J. H. Winniford (Geographic Names) Dec., 1946

Field Edit by: None

date:

Date of Mean High-Water Line Location (III): Feb., 1947

Projection and Grids ruled by (III) Washington Office date: Jan., 1947

" " " checked by: Washington Office date: Jan., 1947

Control plotted by: Roy A. Davidson date: Feb., 1947

Control checked by: James L. Harris date: Feb., 1947

Radial Plot by: J. L. Harris & R. A. Davidson date: March 13, 1947

Detailed by: Helen L. Letson
 date: May 2, to June 23, 1947

Reviewed in compilation office by: Ree H. Barron date: July 21, 1947

Elevations on Field Edit Sheet
 checked by: None

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 3.0 sq. mi. (complete detail)
24.6 sq. mi. (skeleton detail)

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): 6.5 statute miles
(measured along centerline of rivers)

Number of Recoverable Topographic Stations established: 9

Number of Temporary Hydrographic Stations located by radial
plot: 30

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered
by, (II) Field Party, (III) Compilation Party, or, (VI) the
Washington Office.

When entering names of personnel on this record give the
surname and initials (not initials only).

Remarks:

The adopted Water Plane is a pool between
the dam at Oregon City and the zero of the gage
at Newberg, Oregon which is 52.0 ft. above M. S. L.
and a gradient between Newberg and 53.3 ft
above Mean Sea Level. (the zero of the river gage
at Ray Bar, Oregon)

MAP T- 8811

PROJECT NO. Ph-13(46)

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR U-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	REMARKS -FOR DISTANCE FROM GRID OR PROJECTION LINE -IN 1927 -FOR DISTANCE FROM GRID OR PROJECTION LINE -IN 1946
✓ S 217, OSHD (USE, 1941)	USE	N. A. 1927	45° 17' 54.41" 122 59 06.38	1679.7 (172.6) 139.0 (1168.3)			Used in Rad. Pl.
✓ VER (USE, 1941)							Not used in Rad.
							Pl. Az.mk. for
							S217. Shown as
							topo. station.
✓ TVE RESET (USE, 1941)	"	"	45° 18' 12.12" 122 57 22.62	374.2 (1478.1) 492.8 (814.4)			Used in Rad. Pl.
✓ UNE (USE, 1935-36)							Not searched for
✓ WAD (USE, 1936)							Not searched for
✓ TANK, NEWBERG 1945	G 6734 page 880	"	45° 17' 14.237" 122 57 38.060	442.6 (1409.7) 829.4 (478.1)			Used in Rad. Pl.
✓ Q 104 (USE, 1935) 1945	G 6734 page 878	"	45° 17' 06.150" 122 57 36.018	189.9 (1662.4) 785.0 (522.7)			Not used in Rad. Pl.
✓ W 99 (USE, 1935-36)							Not used in Rad. Pl.
							Az.mk. for Q 104
							Shown as topo.sta.
							BERG, 1946.
✓ CED SOT (USE, 1935-36) 1945	G 6734 page 880	"	45° 17' 05.792" 122 57 35.103	178.8 (1673.5) 765.0 (542.6)			Not used in Rad. Pl.
✓ PTS 9 USGS (USE, 1941)	USE	"	45° 16' 30.97" 123 00 39.69	956.1 (896.2) 865.0 (442.8)			Ref.mk. to Q 104 Used in Rad. Pl.

1 FT. = 3048006 METER

COMPUTED BY: J. L. Harris

DATE February, 1947

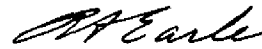
CHECKED BY: R. A. Davidson

DATE February, 1947

M-2388-12

FIELD INSPECTION REPORT
Sheets T-8809, T-8810 & T-8811
Project Ph-13(46)

1 to 25: All information that is applicable to these side headings is given in the "Field Inspection Report, Sheets T-8809, T-8810 and T-8811, Project Ph-13 (46)". This report is included with the "Descriptive Report" for Sheet T-8809*.



R. A. Earle
Chief of Party

COMPILATION REPORT
Map Manuscript T-8811
Project Ph-13(46)

26. Control:

Attached to this descriptive report are two sheets of Form M-2388-12 on which is tabulated the horizontal control stations, of all federal agencies, which fall in the area of this map manuscript. A special column headed, "Remarks", has been added to the form, in which a short note has been entered after each station, which gives an explanation of how the station was used in this project.

It will be noted that eight stations were identified by the field unit. These stations were well spaced over the area and were sufficient to control the photographs during the running of the radial plot.

The published positions of the U. S. Engineer stations, which were not searched for by the field unit, have not been shown in the tabulation and these stations have not been plotted on the map manuscript.

Station "VER(USE), 1941" has been identified and radially plotted as the azimuth mark for station "S 217 OSHD (USE), 1941."

Station "W 99 (USE), 1935-36", has been identified and radially plotted as topographic station "BERG, 1946".

The published elevations, to the nearest 1/10 ft., of all recovered horizontal control stations, which are also used as vertical control, have been shown on the map manuscript.

27. Radial Plot:

This map manuscript is part of Radial Plot No. 1, Project Ph-13(46), which includes the Map Manuscripts No's. T-8809, T-8810 and T-8811.

The facts concerning this radial plot have been fully described in the descriptive report for T-8809.

28. Detailing:

Compilation was done in accordance with instructions for Project Ph-13(46). Special care was taken to see that the requirements of paragraph 34 of the instructions were met.

The transforming printer at the Washington Office was not in proper adjustment at the time the photographs were printed and they could not be oriented in their entirety at the compilation table when radially plotting various types of pass points. Enough pass points had, however, been established during the radial plot so that each chamber of each photograph could be separately oriented. For at least two of the chambers on each photograph, it was found necessary to de-center the photograph radially, to or from

the chamber being oriented, so that the radials to the pass points and horizontal control stations in the chamber would pass through their positions on the map manuscript.

Due to shadows and overhanging trees along the banks of the rivers, it was often impossible to get more than a two radial intersection, on some of the detail pass points which were used to compile the shorelines. These two radial intersection points have been shown with a small circle in green ink on the reverse side of the map manuscript.

The photograph coverage was adequate and very little trouble was encountered in interpreting the planimetric details.

All planimetric features have been compiled, within a zone averaging 300 meters in width, along both shores of the Willamette River. Inshore from this zone only skeleton planimetric details have been shown. The detailing limits of the map manuscript were taken from the index map furnished the compilation office and are shown with a light full line in green acid ink.

This map manuscript is relatively a smooth drawing and all symbols have been drafted to conform with samples furnished the compilation office or with symbols shown on similar planimetric maps which have recently been published by the U. S. Coast & Geodetic Survey.

The heights of bluffs only, were indicated by the field inspector. Their location was interpreted by the compiler with the aid of the stereoscope. Shoreline features and drainage were also delineated by extensive use of the stereoscope, however, it was often necessary to detail the field inspector's interpretation of drainage through thickly wooded areas. This was done only when it was impossible to determine the location of drainage by stereoscopic examination of the photographs.

29. Supplemental Data:

No supplemental data was used in the area of this map manuscript.

30. Mean High-Water Line: (River shoreline at the adopted plane of reference)

A complete discussion of this feature may be found in paragraph 7 of the Field Inspection Report, Sheets 8809, 8810 and 8811, Project Ph-13(46). (T-8809)

The mean high-water line (River shoreline at the adopted plane of reference) is shown by a continuous black acid ink line, .008" in thickness, at the following planes:

North from the gage in Newberg, a pool, ^{52.0}~~51.6~~ ft. above M.S.L.

South from the gage at Newberg the water level plane is a gradient between an elevation of ^{52.0}~~51.6~~ ft. above M.S.L. for the pool at Newberg and an elevation of 53.3# ft. above M.S.L. for the U.S.E. gage located along the east side of the Willamette River near Ray Bar.

There are no marsh areas immediately bordering the shoreline.

31. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water or shoal lines within the area of this map manuscript.

32. Details Offshore from the Mean High-Water Line:

There are no details offshore from the mean high-water line within the limits of this map manuscript.

33. Wharves and Shoreline Structures:

There are no shoreline structures within the limits of this map manuscript.

34. Landmarks and Aids to Navigation:

There were no aids to navigation within the area of this map manuscript. Form 567 is being submitted recommending the charting, as nautical landmarks, of the following:

WATER TOWER (Yellow wooden water tower on west bank of Willamette River).

TANK (Spaulding Paper Co. tank at Newberg, Oregon).

35. Hydrographic Control:

A complete discussion of this subject can be found in paragraph 12 of the Field Inspection Report, Sheets 8809, 8810 and 8811, Project Ph-13(46). (T-8804)

It is believed that the field unit, in an attempt to satisfy the minimum hydrographic control requirements for this project, may have selected a few temporary signals that were of doubtful identity on the photographs or located them by methods which were not too strong. The compiler has radially plotted or otherwise located all of the signals recommended for hydrographic control, by the field unit, for this map manuscript. The compilation office is confident that the signals, which were easily identified on the photographs, are accurately located but, should the hydrographic party encounter some difficulty with a particular signal it should be discarded. In any event, there has been a sufficient number of well located signals established, which may be used by the hydrographic party for establishing additional signals at the time the hydrographic survey is made.

A list of thirty hydrographic signal sites, which fall in the area of this map manuscript, is attached to the Field Inspection Report, Sheets 8809, 8810 and 8811, Project Ph-13(46). (T-8804)

36. Landing Fields and Aeronautical Aids:

A portion of Sportsman Airport (emergency field) falls along the eastern limits of this map manuscript. There are no aeronautical aids within the limits of this map manuscript.

37. Geographic Names:

Geographic names are the subject of a special report, Investigation of Geographic Names, Sheets 8809, 8810 and 8811, Project Ph-13(46) which has been submitted. All undisputed and recommended geographic names have been shown on the map manuscript. *Geographic Names Sect. Division of Charts*

38. Recoverable Topographic Stations:

Copies of Forms 524 are being submitted for the following: *Photogrammetry Files*

WATER TOWER, 1946 ¹¹	GEAR, 1947	LOST, 1947
NEWBERG RIVER GAGE, 1947	KIND, 1947	
BERG (BM W 99, 1934), 1946	NOON, 1947	
OPAL (BM X 325-1, USE, 1939), 1947	MEET, 1947	

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts T-8810 and T-8811 and between Map Manuscripts T-8811 and T-8812.

40. Bench Marks:

Bench marks have been detailed as identified by the field inspection units. Each bench mark shown is indicated by a black acid ink cross with the name and elevation to the nearest 1/10 foot lettered nearby.

44. Comparison with Existing Topographic Surveys: *Quadrangles*

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

There are no nautical charts of the area.

Approved and forwarded:

Robert A. Earle

Robert A. Earle
Chief of Party

Respectfully submitted:
18 July 1947

J. Edward Deal Jr.

J. Edward Deal, Jr.
Photogrammetric Engineer

TO BE CHARTED } STRIKE OUT ONE
TO BE DELETED }

LANDMARKS FOR CHARTS

Portland, Oregon

23 July 1947

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. *Medical*

R. A. Earle
Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-8811

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28. Detailing.

Corrections made by the reviewer were limited to the shoreline. Inshore planimetry was in good agreement.

Numerous detail points on the manuscript were checked and in all instances the cuts made by the reviewer held within the prescribed limits of accuracy. No new detail points were cut in by the reviewer, as the original detail points were sufficient for compilation. The compiler apparently did not exercise enough judgment in detailing the shoreline ~~as it was~~ ^{has been} relocated at several points. In one instance detail points that were pricked on fast land appeared in the river on the original compilation.

35. Hydrographic Control.

Several hydrographic stations were cut in at random and all held except 1118a, which was moved 0.6 mm to the southwest.

44. Comparison with Existing Topographic Quadrangles.

U.S.E., Yamhill, Ore., 15' quadrangle, 1942,
scale 1:62,500

U.S.E., Yamhill, Ore., 15' quadrangle, 1947,
scale 1:50,000

U.S.G.S., Mount Angel, Ore., 15' quadrangle,
1921, scale 1:62,500

U.S.E., Mount Angel, Ore., 15' quadrangle, 1947,
scale 1:50,000

U.S.G.S., McMinnville, Ore., 15' quadrangle, 1924,
scale 1:62,500

U.S.E., McMinnville, Ore., 15' quadrangle, 1947,
scale 1:50,000

At approximate latitude $45^{\circ}15'00''$ and longitude $123^{\circ}00'00''$ the Willamette River does not appear on the quadrangle.

U.S.G.S., Tualatin, Ore., 15' quadrangle, 1914,
scale 1:62,500

1. At approximate latitude $45^{\circ}16'15''$ and longitude $122^{\circ}58'45''$ an underwater cable crossing does not appear on the quadrangle.

2. At approximate latitude $45^{\circ}16'10''$ and longitude $122^{\circ}59'35''$ an underwater cable crossing does not appear on the quadrangle.

3. At approximate latitude $45^{\circ}16'10''$ and longitude $122^{\circ}59'20''$ an island does not appear on the quadrangle.

4. The planimetry of the southern half of Ash Island disagrees with the map manuscript.

5. At the southwestern end of Ash Island, three dikes do not appear on the quadrangle.

6. At approximate latitude $45^{\circ}15'40''$ and longitude $123^{\circ}00'00''$ an overhead cable crossing does not appear on the quadrangle.

U.S.E., Tualatin, Ore., 15' quadrangle, 1947
scale 1:~~62,500~~
50,000

See all items of above comparison.

45. Comparison with Nautical Charts.

There are no nautical charts in this area.

Reviewed by:

Reviewed under direction of:

B. Thomas Hynson
B. Thomas Hynson 10-29-47
Photogrammetrist

S. V. Griffith
S. V. Griffith
Chief, Review Section

Approved:

J. J. Jones 12/47

Technical Assistant to the
Chief, Div. of Photogrammetry

[Signature]

Chief, Nautical Chart Br.
Division of Charts

K. T. Adams

Chief, Div. of Photogrammetry

C. K. Green

Chief, Div. of Coastal Surveys

GEOGRAPHIC NAMES

Survey No.

T-8811

NEWBERG, Oregon

1 Name on Survey

	A	B	C	D	E	F	G	H	K	
✓ Oregon									USGB	1
✓ Marion County										2
✓ Yamhill County										3
✓ Willamette River									USGB	4
✓ U.S. 99W Pacific Highway West										5
✓ Southern Pacific										6
✓ State No. 219 Salem Newberg Highway										7
✓ State No. 240										8
										9
✓ Bottom Road										10
✓ Ray Bell School (name O.K.)										11
✓ Dundee Bar										12
✓ Skookum Lakes										13
✓ Ash Island										14
✓ Newberg Highway Bridge										15
✓ Gearns Ferry Road										16
✓ Hess Creek										17
✓ Sportsman Airport										18
✓ Newberg										19
✓ Newberg Union High School										20
✓ Newberg Junior High School										21
✓ Friends Church										22
✓ Lutheran Church										23
✓ Church of Christ										24
✓ Church of God										25
✓ Church of the Brethren (two)										26
✓ Free Methodist Church										27

GEOGRAPHIC NAMES

Survey No.

T-8811

2	Name on Survey	A	B	C	D	E	F	G	H	K
✓	Methodist Church									1
✓	Presbyterian Church									2
✓	Church of Science									3
✓	Congregational Church									4
✓	Central School									5
✓	Pacific College									6
✓	Catholic Church									7
✓	Chehalem Creek									8
✓	Sunny Crest									9
✓	Red Hills of Dundee									10
✓	Dundee									11
✓	<u>Dundee Methodist Church</u>									12
✓	Dundee School									13
✓	Crawford									14
✓	Unity School									15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red are approved.
2/10/48. L. Heck

M 234

Names underlined in red are approved.
2/10/48. L. Heck