10420

Diag. Cht. No. 6157 Inset

Form 504

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-63 Office No. T-10420

LOCALITY '

State Washington

General locality Columbia River

Locality Kennewick

1954-58

CHIEF OF PARTY V.R.Sobieralski, Chief of Party R.B.Melby, Portland Photo. Office

LIBRARY & ARCHIVES

May 1, 1962

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 10420

Project No. (II): Ph-63

Quadrangle Name (IV):

Field Office (II): Pasco, Washington

Chief of Party: V. Ralph Sobieralski

Unit Chief: R. B. Melby

Photogrammetric Office (III):

Portland, Oregon

Officer-in-Charge: V. Ralph Sobieralski

Instructions dated (II) (III):

26 March 1956

(Field & Office)

Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III): 1:15,000

Stereoscopic Plotting Instrument Scale (III):

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): 28 May 1959

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 meen high water Elevations shown-as-(5) refer to sounding-datumiran mean-low water-or mean-lower low water-

For the McNary Dam Reservoir the elevations refer to Normal Pool Level of 340 ft. above M.S.L.

Reference Station (III): DODGER(USE)1950

Lat.: 46° 131 08.688"

Long.: 1190 091 23.221"

Adjusted X

268.3m (1584.3m)

497.7m (788.3m)

Unadjusted

Plane Coordinates (IV):

State:

Zone:

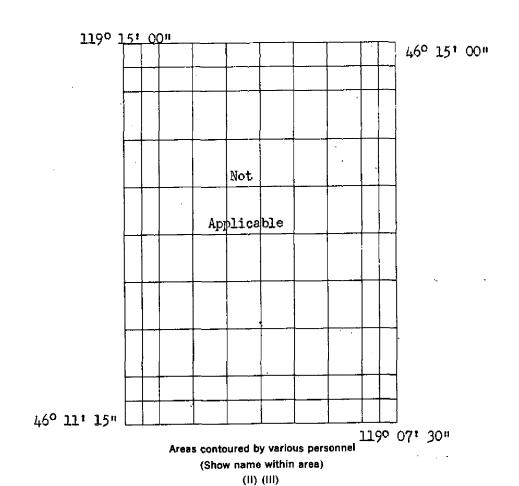
Υ=

X=

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



COMM- DC- 57842

Elevations on Manuscript

checked by (ii) (III):

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): R. B. Melby Date: Spring 1958 Planetable contouring by (II): Date: Completion Surveys by (II): Date: Shoreline at normal pool level (340 ft. above M.S.L.) -Moon-High-Water-Lecotion (III) (State date and method of location): Spot locations at intricate places were made in the field. For the most part the shoreline at normal pool level of 340 ft. above M.S.L. was delineated in the office from photographs taken on 9-26-54 when the pool was at that level. Projection and Grids ruled by (IV): Date: Projection and Grids checked by (IV): Date: Control plotted by (III): J. L. Harris Date: 6-12-57 J. E. Deal Control checked by (III): Date: 6-17-57 Radial Plot or Stereoscopic J. L. Harris Date: 7-2-57 Control extension by (IiI): Planimetry Date: Stereoscopic Instrument compilation (III): Contours Date: Manuscript delineated by (III): L. L. Graves (rough draft) Date: 7-11-58 L. L. Graves (scribing) 8-19-58 C. C. Harris (stick-up) Photogrammetric Office Review by (III): J. E. Deal Date: 9-9-58

COMM-DC-57842

Date:

DESCRIPTIVE REPÓRT - DATA RECORD

C&GS - 9 lens - focal length 8.25 inches Camera (kind or source) (III):

		PHOTOGRAPHS (III	l)	
Number	Date	Time	Scale	Stage of Tide
46200 and 46201 54414 and 54415		14:16 08:55	1:15;000 1:15,000	340 ft. above M.S.L. 340.4 ft. above M.S.L.

Tide (III)

Reference Station:

Not applicable

Subordinate Station:

Subordinate Station:

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 22

Shoreline (More than 200 meters to opposite shore) (III): 10 2

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 17

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 5

Number of Temporary Photo Hydro Stations established (III): 10*

17

Recovered:

Recovered:

Identified: Identified:

Date:

8

|Ratio of | Mean | Spring

Range

Range

Ranges

Remarks:

* These stations have topographic names but Forms 524 were not submitted in accordance with instructions.

COMM- DC- 57842

Summary to accompany shoreline manuscript T-10420

T-10420 is one of Shoreline Project PH-63 (27020). The project covers a portion of the upper Columbia River (from the vicinity of Pasco downstream to the McNary Dam) in the states of Washington and Oregon. T-10420 is the northwestern most of 18 compilation manuscripts of the project and extends upstream to Bateman Island.

This group of 18 shoreline manuscripts was planned in support of hydrographic surveys for the construction of new nautical charts. Instructions were sent out in March 1956. Aerial photography (nine-lens) of Sept. 1954, supplemented by photography of June 1956, and results of field inspection of spring of 1958 were used in the compilation of this project in 1957 and 1958 at the Portland Photogrammetric Office.

There are no previously registered topographic surveys of this area, and 1:125000 topographic maps by the Geological Survey from 1904 and 1914 preclude a detailed comparison.

A cronar film positive at the compilation scale of 1:15000 and the Descriptive Report will be registered and filed in the Bureau Archives.

May 1959

FIELD INSPECTION REPORT

(1958 Season)

Map Manuscripts T-9120, T-10420 and T-11316

Project Ph-63

2. Areal Field Inspection:

This portion of the project was field inspected on hine-lens photographs furnished by the Coast and Geodetic Survey. While some of the images on the photographs lacked the desired amount of clarity, they were adequate to interpret and denote the desired physical features. The field inspection of both photographs and terrain was conducted from a motor vehicle where possible and by small boat or on foot where vehicular travel was unfeasable.

The area can be considered as semi-arid. Near the northwest limits of the project an extensive irrigation system has made diversified farming possible. Grapes and mint are two of the shief crops. Where irrigation is not in use the land is tilled by dry-farming methods, grain being the main crop.

The columbia River flows southeastward through this pertiem of the project. Near the town of Umatilla, Oregon is McKary Dam, that impounds the waters of the Columbia River to form a reservoir. This reservoir is referred to as McKary look, as to date, there has been no official name assigned to this feature. The Smake River flows southwestward through the northeast area of the preject, joining the Columbia River near the team of Burbank. Near the northeastern limits of the project, Ise Harbor Dam is under construction, under the supervision of the Corps of Engineers, to impound the waters of the Snake River. Ice Harbor Dam will maintain a reservoir at a navigable depth and will produce hydro-electric power. It will include a navigation look and a fish ladder.

The area is served by a system of paved, heavy duty, primary and secondary highways and roads. Three railroads serve the area the Union Pacific Hailroad, the Morthern Pacific Hailway and the Spokane, Fortland and Scattle Hailway. The city of Pasco has a municipal airport to serve both commercial and private aircraft.

Tug and barge traffic, as well as pleasure craft ply the waters of McMary Fool. Portions of the pool serve as Game Range and Wildlife Management Areas.

3. Merisostal Central:

Four new horisontal control stations were established by Stiamgulation methods; stations PHILLIPS, PACIFIC CHMICAL COMPANY LIGHT, a fixed aid to mavigation; KENNEWICK, SILVEN-COLORED MINISTER TANK and KENNEWICK, TELEVISION STATION KTEL, MAST, legated because of landmark value; and RICHLAND LIGHT, a fixed aid to navigation met in the project area, legated because it is the last and meet martherly of the aids to mavigation along the Ministery Pool.

A systematic secret was conducted for all listed horizontal sections in the project area.

A. Fortical Controls

Yertical control for use by stereoccopic imptruments was and

5. Contours and Brancasti

Contours not applicable. Drainage was indicated on the field shotographs. The denimage pattern is usually stable on the photographs due to the last of woodland covery. The mages of some of the dry, intermittable stress beds appear to schotographs. Makes for the Columbia Miles, Smales River and the photographs, Smales for the Columbia Miles, Smales River and The River, the smales are in the area is mostly intermittent. The maintained asserts, ditteless, similares and wasteways for indicated asserts field photographs.

6. Bedland frank

The area is those deviate of weekings only, amount feet the provided of the classic only feet the plant and statistic deviations force that flowers to class the plant of the

Thereline has Alengabers Posturosi

A veter surface stateties of \$40 feets above mest see legisles of the contained of the contained of the second peet to the in the legisles of Enlary Den as the second peet total. This is the legisles seed that appeals to not of the simpless pertagnity makes appealed mass high veter line. Requisite northwest limits the project the simpless photography lines the Same River on the people of the second the natural stage. See to the protings of the second billings of the second the natural stage. See to the post of the second the natural stage. See to the second second second the second the second seco

The low water line was not revisited in the field. Doe

3. |ierisontal Control:

Nour new horisontal control stations were established by triangulation methods; stations PHILLIPS, PACIFIC CHEMICAL COMPANY LIGHT, a fixed aid to mavigation; KEMMERICK, SILVEN-COLORED ELE-VATED WATER TANK and KEMMERICK, TELEVISION STATION KTRK, MAST, located because of landmark value; and RIGHLAND LIGHT, a fixed aid to navigation not in the project area, located because it is the last and most northerly of the aids to navigation along the MeMary Pool.

A systematic search was conducted for all listed horizontal central stations in the project area.

4. Vertical Control:

Vertical control for use by atcreoscopic instruments was not required.

5. Contours and Drainage:

Contours not applicable. Drainage was indicated on the field photographs. The drainage pattern is usually visible on the photographs due to the lack of woodland cover. The images of some of the dry, intermittent stream beds appear of the photographs. Interpite for the Columbia River, Snake River and the Tutina River, the drainage in the area is mostly intermittent. The principal irrigation comes, ditches, pipelines and westeways have been indicated on the field photographs.

6. Woodland Gavers

The area is almost deveid of woodland cover, emept for whiten, pourt and similar decideous trees that flourish is always along the rivers and irrigation sample and the various trees that have been planted near residences for shade purposes.

7. Shoreline and Alexashore Pestures:

A veter surface alequation of 340 feet above mean see legal two ostablished by the Corps of Engineers and is saintained at the face of McMary Don as the normal pool level. This is the level the pool that appears on most of the nine-lens photography and the accepted man high water line. Near the northeast limits of the project the sime-lens photography along the Smale River was taken when the river was above the normal shape. Due to the same gratient of the shape, the herisontal displacement of the man high water line would be very alight in most instances.

The low water line was not verified in the field. Due to

level of McNary Fool at the time of field inspection, this feature was flooded. The project instructions require this feature to be deligated from Corps of Engineers photography, taken when the pool was all a lover surface level.

Shall bodies of water that connect to McMary Pool and whose water surface elevations are controlled by the larger pool, have been targer pools. Other small bedies of water not normally influenced by the large McMary Fool are denoted as ponds.

of rates, in earth and boulder like has been constructed to control the class a ring the flood stage, continuing northward the dike gives are to a natural, inclined shore; forming low bluffs. On the want sine of the Columbia Fiver in the vicinity of Kennewick, a simple earth and boulder dike has been constructed to prevent seasonal floodings. Proceeding northward, the dike gives way to a low, flat area that inundates during the extreme flood stage of the river. The low, flat area slowly rises to form natural earth bluffs in the vicinity of Island View. The mouth of the Yakiman River is sunded by natural earth bluffs and a highway fill.

Kemmawick has a small boat basin at Clever Island. Another small boat begin can be found near Island View, by the south side of Fateman Island.

There is one highway bridge and one power line crossing in the arm. Clearances will be described under Item 12, Other Interior Features.

8. Offshore Peatures:

except for a few small islands and rocks, the area appears relatively free of offshore features.

9. Landmarks and Aidet

Significant landmarks for nautical charge will be deceribed on form 567.

A system of lighted, fixed aids, floating aids and day because have been constructed and are maintained along the Columbia Michael (Mellary Pool). All fixed aids to navigation here located by photogrammetric or triangulation methods. All floating aids, throughout the entire project were located by sextant fix.

10. Boundaries, Monuments and Lines:

Only one state, Washington, is involved in the area.

level of McNary Pool at the time of field inspection, this feature was flooded. The project instructions require these feature to be delinabled from Corps of Engineers photography, taken when the pool was at a lower surface level.

Said bodies of water that connect to McMary Pool and whose water surface elevations are controlled by the larger pool, have been turned pools. Other small bodies of water not normally influenced by the large McMary Pool are denoted as ponds.

Aler, the east shore of the Columbia River, in the vicinity of Fasco, an earth and boulder dike has been constructed to control the river oring the flood stage, continuing northward the dike given any to a natural, inclined shore, forming low bluffs. On the west side of the Columbia River in the vicinity of Kennewick, a simpler earth and boulder dike has been constructed to prevent sensual floodings. Proceeding northward, the dike gives way to a low, flat area that inundates during the extreme flood stage of the river. The low, flat area slowly rises to form natural earth bluffs to the vicinity of Island View. The mouth of the Yakima River is conded by natural earth bluffs and a highway fill.

Renowick has a small boat basin at Glever Island. Another small work besin can be found near Island View, by the south side of Estema Island.

There is one highway bridge and one power line crossing in the at a Clearances will be described under Item 12, Other Interior Features.

8. Offehore Peatures:

Except for a few small islands and rocks, the area appears relatively free of offshore features.

Landmarks and Alds:

Significant landmarks for nautical charts will be described on form 567.

A system of lighted, fixed aids, floating aids and day beacons have been constructed and are maintained along the Columbia Miver (McMary Pool). All fixed aids to mavigation were located by disper photogrammetric or triangulation methods. All floating aids, throughout the entire project were located by sextent fixed.

10. Boundaries, Monuments and Lines

Unity one state, Machington, is impalved in the area.

The three involved counties, Benton, Franklin and Walla Walla share common boundaries, formed by the Columbia and Snake Rivers in the project area.

The approximate boundary limits of Columbia Park were denoted on the field photographs. The park is located along the west where of the Columbia River near Kennewick and is maintained by Benton county.

A portion of the reservation of the Atomic Energy Commission in the vicinity of the mouth of the Yakima River was shown on a field phetograph. It is possible that this boundary may not fall in the project area during compilation as the field inspection was usually conducted beyond the project limits.

11. Ster Controls

In marked, recoverable to ographic stations and sixteen un-monumented photo-tope stations were established, all stations being clong the Columbia River, Snake River and Takima River, to furnish control for fature hydrographic surveys.

The following are the marked, receiverable, topographic stations established:

T-9120 - None

T-10420 - OLD 1958, VISTA LIGHT 1958

T-11316 - SPS-22 1957

The names of the un-monumented stations will is listed under Item 49, Notes to the Hydrographer.

Along the Snake River, triangulation stations established by the Corps of Engineers were set at intervals to make their use feasible for control of future hydrographic Surveys.

12. Other Interior Features:

Highways and roads were classified on photographs as december ander Section 5441, Topographic Manual.

The area along the Columbia River is settled, forming severatowns and urban areas. Hear the West Highlands area of Kennewick is a small airfield known as Vista Field. A grain elevator is all Vista railroad siding. An extensive irrigation system servas the area along the Columbia River. Railroads and the main, trunk power transmission lines were denoted on the photographs.

Clearances for the bridge and power transmission lines are listed below:

New Pasco - Kennewick Highway Bridge fixed span

Horizontal clearance 510 feet Vertical clearance 60 feet

Power Transmission Line Crossing over Smake River at Strawberry Island

Vertical clearance North span 38 feet South span 67 feet

13. Geographie Mamos:

A geographic mames investigation was conducted for the preject area and is submitted under separate cover.

15. Notes to the Countler:

Prior to compilation of sheets T-9120 and T-11613, it is suggested that the Surveying and Drafting Branch, Corps of Engineers, U. S. Army, Office of the District Engineer, Walla Walla District, Walla Walla, Mashington be contacted and the latest air photograph prints of the construction area of Ise Harbor Dam mile be obtained to determine the extent of progress from the date of the nine-less photography.

The abbreviation Orch was used in lieu of the conventional *0* to designate orchards to avoid possible confusion with class I houses that could be circled in orchard areas.

APPPOVER:

Respectfully submitteds

V. Kalph Sebieraleki LCDR, CASS Officer-in-Garge Robert B. Helby Carter Burvey Aid Unit Chief. Radial Flot "C"

Map Manuscripts 7-9120,

T-10420 thru T-10423 and T-11316

21. Area Covered:

This radial plot covers the shorelines of the Columbia River to an interior depth of about 3 miles from Attalia, Massimuton upstream to Esteman Island and the shorelines of the Make River to an interior depth of 3 miles from the Columbia where upstream to the Ice Marbor I.m. It comprises manuscripts 1- 10, T-10420 thru T-10423 and T-11316.

22. Mathod:

The control emissions is accomplished by the hand templet radial line plot method using acetate templets make from nine-lens photographs taken in 1954 inc 1956. Photographs the prepared by the usual methods and master calibration templets in 43497 and No. 48340 were used respectively for the 1954 and 1956 photography when correcting for transferring errors and paper distortion.

Refer to letter, 73-mkl, dated 9 a gust 1956, subject: "Compile-lion - Projects 27260; Therieston, S. C. and 27020; Upper Columbia River, Cregary, relative to the use of calibration templet No. 48340 (1955) for 1956 photography.

Fire 2' x 3' sheets of other material, on each of which was ruled a polyconic projection of its area comprising 3 minutes - 45 seconds of latitude and 7 minutes - 30 seconds of longitude at a scale of 1:15,000 were straighed for work sheets. The Lambert State grids of Washing on were also ruled on these sheets. The horizontal control at done falling on each of the respective manuscripts were plotted and verified. The fire sheets were joined with clear cellulose tage. The templets were oriented to the identified control directly on the joined work sheets and fastened with masking tape. After all templets were satisfactorily oriented and fastened the entire radial plot was transfered down and the locations of pass points and principal points are pricked and dicated by circles on the reverse sides the work sheets usin Craftint No. 111 red plastic ink. The lot we then turned fasting in the largins at the junctions of a joining sheets were transferred and then the joined work sheets are dismantled.

There were more than an adequate number of identified horimontal control stations available and all were actisfactorily held in this radial plot. The results were excellent and well within the limits of horizontal accuracy requirements.

23. idenuacy of Control:

The identification of horizontal control stations was satisfactory and more than an adequate number were available.

24. Aupplemental Data:

There were topographic maps, compiled by the Corps of angineers, U. S. Army, Walla Walla District, available which covered the area of this radial plot. These were not needed to supplement the identified horizontal control stations, but they were used during the compilation of alanimetric details for verification of certain features for which state coordinate positions of the U. S. Engineers were available.

25. Photography:

The photography was adequate. The P.M.A. ratio prints were not needed to supplement the nine-lens photography.

Approved:

Respectfull submitted:

V. Ralph Sobieralski LCDR, CAGS Officer-in-Charge J. Edward seal Cartographs C&GS

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

FORM **164** (4-23-54)

MAST AND GEODETIC SURVEY ONTROL RECORD

STATION STAT	MAP T. 10420	PROJECT NO.	PROJE	SC.	\		. טכארד טר קואר		5	שכיאר ו שכיאס	٠ ٢٠
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FORM **164** (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY CONTROL RECORD

2 of 2

STATION SUMMAND CONTINUE ON COORDINATE C	MAP T. 10420		PROJE(PROJECT NO Ph-63	Ph-63		SCALE OF MAP		1:15,000	SCAL	SCALE FACTOR	R None
1279 1279 1279 119 15 22-319 128-5 139 15 22-319 128-5 139 15 22-319 128-5 139 15 22-319 128-5 138-5 129-7 139 15 25-442 129 129 129 138-5 128-5 1	STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE LONGITUDE	OR 4-COC)RDINATE ORDINATE	DISTÂNCE FRO OR PROJECTION FORWARD	-	DATUM	N.A. 1927 DISTAI FROM GRID OR PR IN MET	- DATUM NCE ROJECTION LINE ERS (BACK)	DISTA PROJE ETERS
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3.1

Map Manuscript T-10420

Project Ph-63

31. Delineation:

The compilation and drafting were accomplished as follows:

- (a) Graphic compilation in ink on work sheets having projections ruled in Washington
- (b) Office review.
- (c) Transfer of compiled planimery and projections to orange coated scribe sheet by "Watercote" methods.
- (d) Scribing in negative of compiled details and projections.
- (e) Reproduction of scribed features on CronarTlex material positive.
- (f) Stick-up of symbols and type.
- (g) Final office review and inspections by Officer-in-Charge.

32. Control:

Refer to items 22 and 23 of the Photogrammetric Plot Report and to item 3 of the Field Inspection Report, (1958 Season) copies of which are included in this Descriptive Report.

33. Supplemental Data:

Prints of maps and plans used to supplement the photographs and field inspection data are as follows:

- (a) City of Kennewick, Washington Scale 1" = 1 mile.
- (b) City of Kennewick, Washington Scale 1" = 1000'.
- (c) City of Pasco, Washington Scale 1" = 1000'.
- (d) Riverview Area, Franklin Co., Washington Scale 1" = 1000'.
- (e) General Highway Map, Benton Co., Washington Scale 1" = 1 mi.
- (f) General Highway Map, Franklin Co., Washington Scale 1" = 1 mi.
- (g) Benton County Road Map Scale 6" = 1 mile.
- (h) Benton County Washington, County Road System Scale 4" = 1 mi.
- (i) Walla Walla District, Corps of Engineers, Nov. 1, 1954Scale 1" = 333.31, "Relocations and Section Corner Ties".

MDR-1-12/40 Sheet No. 45 MDR-1-12/41 Sheet No. 46 MDR-1-12/46 Sheet No. 50 MDR-1-12/45 Sheet No. 51 MDR-1-12/44 Sheet No. 52 MDR-1-12/43 Sheet No. 53 MDR-1-12/42 Sheet No. 54 MDR-1-12/47 Sheet No. 55

Numerous points of planimetry that appear on T-10420 were located by triangulation ties during the survey listed under (i). Lambert Coordinates were furnished by the Corps of Engineers for these points and they were plotted on the manuscript. It was found that the graphically compiled planimetry is in excellent agreement with all planimetric detail located by triangulation ties by the Corps of Engineers.

34. Contours and Drainage:

Contours are not applicable. Drainage was delineated by field inspection and refined by office examination of the photographs supplemented by reference to the U.S. Geological Survey quadrangles of the area.

35. Shoreline and Alongshore Details:

The shoreline of the nine-lens photographs taken on 9-26-54 when the pool level was 340 feet above mean sea level has been shown. Except where clarification was needed no field inspection was made of the shoreline.

The approximate low-water line was compiled from Corps of Engineers, U. S. Army photographs taken on 13 October 1953 when the water level of the pool was about 324 feet above mean sea level.

36. Offshore Details:

None.

37. Landmarks and Aids:

Form 567 is submitted for these features. Two fixed aids which fall north of the manuscript limits are included on the Form 567. Floating aids to navigation have been located in accordance with "Instructions, Shoreline Mapping - Project 63, McNary Pool, Oregon - Washington, Field and Office", Supplement 2 dated 24 April 1958. These were plotted from sextant angles furnished by the field units.

38. Control for Future Surveys:

Five Forms 524 are sumbitted for recoverable topographic station.

Ten photo-hydro stations of recoverable topographic station accuracy were located. These are either objects or stations marked by drill holes or iron pipes.

Refer to Item 49. "Notes to the Hydrographer" for the list of names of the Recoverable Topographic Stations and for descriptions of the photo-hydro stations.

39. Junctions:

A satisfactory junction has been made with T-10421. There are no contemporary surveys to the north, south and west of this manuscript.

40. Horizontal and Vertical Accuracy:

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

46. Comparison with Existing Maps:

The U. S. Geological Survey quadrangle maps of the area are obsolete for comparison with this shoreline manuscript because they were made previous to the flooding of the McNary Pool.

47. Comparison with Nautical Charts:

There are no nautical charts of the area. Recent hydrographic surveys by the Corps of Engineers were not available for comparison purposes.

Approved:

V. Ralph Sobieralski

LCDR, C&GS

Officer-in-Charge

Respectfully submitted:

J. Edward Deal

J. Edward Deal Cartographer

C&GS

T-10420.

Geographic Names.

Angus Village

Bateman Island

(this appears same as Riverview Island of old U.S.G.S. quadrangle, but Bateman is presumably the name now in local use)

Columbia Irrigation District Canal Columbia Park Columbia R_iver

Desert Lawn Manorial Park (Cem)

Fruitland Grade School

Hawthorne Elementary School

Island View

Kennewick

Mark Twain School

Northern Pacific

Pasco

Richland Junction
Richland Wye
River Reights Cemetery

Sanders Field
Union Pacific
Vista
Vista Airfield

Washington Westgate Elementary School West Highlands

Yakima River

Zintel Canyon

State 8

US 410 State 3 US 395 State 11 A comparison with 1958 State H. ghway and Rand McNally Road Map shows State 3 as continuing westward with US 410, and US 395 State 11 as extending northward from Pasco.

Street and church names have not been listed, since no city maps are available for comparison.

Names approved 10-14-58 L.Heck.

49. Notes to the Hydrographer:

The shoreline on this manuscript shown with a full line is at a water level of 340 feet above M.S.L. or normal pool level.

The approximate low-water pool level at 325 feet above M.S.L. is shown with a dotted line and was compiled from single lens ... photographs taken in 1953 by Corps of Engineers when the pool level was 324/ feet.

Forms 524 are submitted for recoverable topographic stations namely:

Richland Light 1958, Yakima River Light 1958, Vista Light 1958, GOLF, 1957 and OLD 1957

Photo-hydro stations located with recoverable topographic station accuracy and for which Forms 524 were not required are:

Name	Photo. No.	Description
Topo No. 27	46200	A length of 3/4" pipe cemented in ground. "Topo 27" inscribed in cement.
Topo No. 28	46201	A length of 3/4" pipe cemented in boulder at the top of the south shoulder of a dike. "Topo 28" inscribed in cement.
Topo No. 29	46201	A drill hole in S.E. corner of concrete bulkhead. "Topo 29" painted on corner.
Topo No. 30	46201	A drill hole in S.W. corner of abandoned concrete foundation. "Topo 30" painted on corner.
*Topo No. 31	46202	A drill hole in S.W. corner of L-shaped abandoned concrete foundation. "Topo 31" painted on corner.
*Topo No. 32	46202	A drill hole in W. corner of abandoned concrete foundation. "Topo 32" painted on corner.
Topo No. 124	46199	A section of l" pipe driven in the top of the north shoulder of a dike.
Topo No. 125	46200	A drill hole in the N.E. corner of abandoned concrete foundation. "Topo 125" painted on corner.

Name	Photo. No.	Description
Торо №. 126	46200	A drill hole in N.E. corner of old concrete house foundation. "Topo 126" painted on corner
Topo No. 127	46200	The N.E. corner of abandoned concrete pumping plant. "Topo 127" painted on corner.
Topo No. 128	46201	A length of 3/4" pipe cemented in an 8" concrete pipe. "Topo 128" inscribed in cement.
Topo No. 129	46202	A drill hole in N.E. corner of concrete base of the westernmost street lamp standard. "Topo 129" painted on corner.
*Topo No. 130	46202	A length of 3/4" pipe cemented in the top of an 8" concrete pipe. "Topo 130" inscribed in cement.

^{*} Stations 31, 32 and 130 marked above fall north of the manuscript limits and they are not shown on the final copy of the advance manuscript. They have been located in the north marginal area on the rough draft manuscript.

Form 563 April 1945

T-10420

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS CRAIMAINMAKESOGOCKUGETEE

STRIKE OUT ONE TO BE CHARTED TOXISIMEMENTO

Portland, Oregon

9 Sept.

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

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

								•		THOUSE TOTAL CONTROL !	- 1	Canel of rarry.
STATE	WASHINGTON					POSITION			METHOD		THA	- CHURCH
				<u>ر</u> -	LATITUDE*	LON	LONGITUDE *	!	LOCATION	DATE	H2 21	CHARTS
CHARTING	DESCRIPTION		SIGNAL	0	D. M. METERS		D. P. METERS	DATUM	SURVEY No.	LOCATION	OBWYH	AFFECTE O
	Vista Light	(1488)		77. 97	4 06.782	119 12	25.174	N.A. 1927	N.A. Photo	4-14-58		Chart
	YAKIMA RIVER LIGHT	(1489)		ST 94		77 6TI			#	4-15-58	-	s
	RICHLAND LIGHT	(34%)	,	91 97		119 16	08.841	2	3 Pt. Pix	2:		6
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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. 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

Review Report of Shoreline Manuscript T-10420 May 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

There are no registered topographic surveys of this area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

PASCO, WASH., 1:125000 Edition of 1917, U. S. Geological Survey

This is the only coverage by other agencies of subject area, and obsolete, because this topographic quadrangle was surveyed in 1904 and 1914.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None!

65. COMPARISON WITH NAUTICAL CHARTS:

None !

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Subject shoreline manuscript was compiled according to project instructions and is adequate and accurate for nautical charting purposes.

Reviewed by:

sef J. Streller

Approved by:

Chief, Review & Drafting Section

Photogrammetry Division

Chief, Nautical Chart Branch

charts Division

Chief, Photogrammetry Division

on (

Constal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. _T-10420

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			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
			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.