DESCRIPTIVE REPORT

Type of Survey Chart Topography.

Field No. PH-6804 Office No. TP-00027

LOCALITY

State Washington
General locality Snake River
Locality Lower Monumental Pool

1968-70
CHIEF OF PARTY

Richard H. Houlder

LIBRARY & ARCHIVES

DATE
**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAMMETRIC OFFICE**

Rockville, Maryland

OFFICER-IN-CHARGE

Richard H. Houlder

1. INSTRUCTIONS DATED

1. OFFICE

Marine Chart Div. April 3, 1968
Aerotriangulation Jan. 8, 1969
Office July 17, 1969
Little Goose
Office Sept. 10, 1969
Aerotriangulation Feb. 10, 1970
Office Feb. 16, 1970

June 25, 1968
Supplement I Aug. 21, 1968
Little Goose
Aug. 8, 1969
Oct. 6, 1969

2. FIELD

II. DATUMS

1. HORIZONTAL:  
   - 1227 NORTH AMERICAN
   - OTHER (Specify)

2. VERTICAL:
   - MEAN HIGH-WATER
   - MEAN LOW-WATER
   - MEAN LOWER LOW-WATER
   - MEAN SEA LEVEL
   - OTHER (Specify)
   - Normal Pool Level
   - Lower Monumental 540 MSL
   - Little Goose 635 MSL

3. MAP PROJECTION

   Mercator

4. GRID(S)

   STATE: Washington  
   ZONE: South

5. SCALE

   1:10,000

III. HISTORY OF OFFICE OPERATIONS

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<th>METHOD</th>
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COMPILATION SOURCES

1. COMPILE PHOTOGRAPHY

CAMERA(S)

"P" 1968  "L" 1969

TIDE STAGE REFERENCE

☑ PREDICTED TIDES
☐ REFERENCE STATION RECORDS
☐ TIDE CONTROLLED PHOTOGRAPHY

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REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:


Little Goose - Normal pool level of 635 MSL office interpretation from color photography dated Aug. 6, 1969.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

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<td>PH-7001</td>
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REMARKS
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I. [ ] FIELD INSPECTION OPERATION  [X] FIELD EDIT OPERATION

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3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

L. L. Riggers, R. B. Melby

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5. GEOGRAPHIC NAMES: [ ] REPORT  [ ] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT  [ ] NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodetic Division)
## RECORD OF SURVEY USE

### I. MANUSCRIPT COPIES

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### II. LANDMARKS AND AIDS TO NAVIGATION

1. **REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

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2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: ____________

3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: ____________

### III. FEDERAL RECORDS CENTER DATA

1. □ BRIDGING PHOTOGRAPHS; □ DUPLICATE BRIDGING REPORT; □ COMPUTER READOUTS.
2. □ CONTROL STATION IDENTIFICATION CARDS; □ FORM CAGS 567 SUBMITTED BY FIELD PARTIES.
3. □ SOURCE DATA (except for Geographic Name Report) AS LISTED IN SECTION II, ESSA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. □ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: __________

### IV. SURVEY REVISION (This section shall be completed when a revised survey is registered.)

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Summary to Accompany
Descriptive Reports TP-00019
to through TP-00027
PH-6804
June 1970

This project consists of nine chart topography manuscripts, covering the Lower Monumental Dam and Pool area on the Snake River, Washington. The manuscripts were compiled at a scale of 1:10,000 to provide the base for a new small-craft route chart, (683-SC), scale 1:20,000.

The Lower Monumental Pool was formed by impounding the water behind Lower Monumental Dam east to the Little Goose Dam.

Field operations prior to bridging included the premarking of horizontal control, selecting photoidentifying and determining elevations of photogrammetric vertical control points, identifying and determining the elevation of features critical for charting and a geographic names investigation. This was completed in November 1968.

Bridging of the entire Pool area was completed in August 1969 by the analytical aerotriangulation method. 1:40,000 scale color diapositives were bridged and numerous points common to the 1:20,000 scale compilation photography were obtained to control these models.

Compilation was accomplished in the Washington Office in August-September 1969 utilizing 1:20,000 scale color photography taken July 1, 1968, prior to the flooding of the pool area. The normal pool level after flooding was established at 540 ft. above MSL. The river level for the area prior to flooding was approximately 440 ft. above MSL at the Lower Monumental Dam to 530' in the vicinity of Little Goose Dam. The area between the prescribed normal pool level and the prior river level was contoured on the B-8 stereoplotter at intervals compatible with required depth curves, (3', 6', 9', 12', 18', etc.) and were supplemented with spot elevations (soundings) to define shoals, gentle slopes and deep water. Rigid vertical and horizontal accuracy was maintained during compilation to comply with project instructions. Along with this bathymetry, the required chart compilation features were delineated above the 540 ft. normal pool level shoreline. This included the 600 ft. contour line for use by marine charts in correlating the compilation with existing maps.
Field edit was completed in April 1970 and encompassed
the verification and/or location of aids to navigation
and landmarks, a facility survey and verification of
compiled features.

The application of field edit revisions and additions
was completed in June 1970 for the entire project.
Final review was also completed in June.

Advance copies prior to field edit had been supplied to
the Small Craft Branch of the Marine Chart Division. Field
corrections and/or additions were minimal and this
afforded the Small Craft Branch more "lead time" to compile
new route Chart 648-SC. Final copy will be sent to
Marine Chart Division along with the facilities report.

A Registration Manuscript Copy will be registered in
the Bureau Archives under their respective TP-numbers.

Submitted by,

J. P. Battley, Jr.
Photogrammetric Plot Report  
Job PH-6804  
Snake River, Lower Monumental Pool  
Washington  

August 1969

21. Area Covered

This report covers the Snake River from the Lower Monumental Dam to the Little Goose Dam, consisting of nine (9) 1:10,000 scale sheets, TP-00019 thru TP-00027.

22. Method

Eight (8) strips were bridged using analytical aerotriangulation methods. Strips 1 and 2 were 1:40,000 scale color diapositives and strips 3 thru 8 were 1:20,000 scale color diapositives. Strips 1 and 2 were bridged using premarked control. The control does not appear on the 1:20,000 scale photographs as the photography was flown prior to premarking. Numerous tie points were located from the 1:40,000 scale bridge to control the 1:20,000 scale photography.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. All bridge points are on Washington South Zone plane coordinates and converted to Mercator values.

23. Adequacy of Control

All horizontal control was premarked and was adequate to control the 1:40,000 scale bridge. The field party furnished elevations to vertically control each strip of 1:20,000 scale photographs and proved very adequate.

24. Photography

The definition and quality of the RC-8 "E" photography were good. No difficulty was encountered in the bridging of any strip.

Respectfully submitted,

[Signature]
I. T. Saperstein

Approved and forwarded,

[Signature]
Chief, Aerotriangulation Section
COMPILATION REPORT
TP-00027

Refer to Descriptive Report No. TP-00019 for Field Inspection and Photogrammetric Plot Reports for Lower Monumental Dam.

Refer to Descriptive Report No. TP-00028 for Field Inspection and Photogrammetric Plot Reports for Little Goose Dam.

31. Delineation

TP-00027 is a 1:10,000 scale chart (683-SC) compilation that ends at the Little Goose Dam and then begins Job PH-7001, 1:10,000 scale, chart (684-SC).

Color photography, scale 1:20,000, taken July 1, 1968, was bridged and used for delineation to Little Goose Dam. Color photography, scale 1:20,000 taken August 6, 1969, was bridged and used for delineation of Little Goose Dam and east to limits of manuscript.

The photography taken in 1968 was supplemented by 1:20,000 scale color photography taken in Sept. 1969 after the Lower Monumental Pool was flooded. 1:10,000 ratio prints were compared with the inked manuscript and additions or revisions were made.

Little Goose Dam was not completed when compilation was started on PH-7001. Corps of Engineers photography at 1:6,600 scale was taken after the Little Goose Dam was flooded in April 1970 and used to supplement the 1969 photography.

New photography is to be taken in July 1970 of Little Goose Pool due to new construction since the time of compilation and will be used to update the manuscripts along with field edit.

A cronaflex copy and ozalid copies were ordered for this manuscript for field edit. After field edit is applied 1/2 reductions will be made for chart compilation at 1:20,000 scale.
32. Control

All horizontal control was premarked and adequate in density and placement.

Vertical control was of prime importance for this project as the area to be contoured is to be used for bathymetry (depth curves, etc.)

Excellent vertical accuracy was achieved in the bridge from numerous field identified vertical points.

(See Photogrammetric Plot Reports for Lower Monumental and Little Goose Dams.)

33. Supplemental Data

None used in photogrammetric compilation.

See item 63 of the Review Report - the C of E drawings were referred to during compilation.

34. Contours and Drainage

Color photography at 1:20,000 scale was bridged by analytic methods and used in the B-8 stereoplotter for contouring. This photography taken in July 1969 and Aug. 1969 before the pool areas were flooded was of good quality and contours within the required accuracy (± 2 ft.) were obtained.

Contours were drawn at prescribed intervals from the old river shoreline to 540 ft. MSL shoreline at Lower Monumental and to 635 ft. MSL shoreline at Little Goose.

35. Shoreline and Alongshore Detail

The shoreline was delineated as stated in Paragraph 34. Color photography of Sept. 1969 taken after the Lower Monumental Pool was flooded was ratioed and compared with the contoured shoreline. Minor differences were noted and revised.

Photography will be taken after the Little Goose Pool is flooded.
36. Offshore Detail

No comment.

37. Landmarks and Aids

U. S. Coast Guard Civil Engineering blueprints were furnished for location of Aids to Navigation in Lower Monumental Pool. This was used to help locate the Aids on the 1969 ratioed photographs. A few of the Aids could not be located during field edit. JB-8-4-70

The blueprints for Little Goose Pool were of no value because none of the Aids were completed at time of compilation and will have to be located during field edit.

All landmarks are to be located during field edit.

38. Control for Future Surveys

None

39. Junctions

Junction was made to the west with TP-00026 and TP-00028 to the east.

40. Horizontal and Vertical Accuracy

Refer to Paragraph No. 23 of Photogrammetric Plot Report and Paragraph No. 32 of this report.

41. thru 45.

Inapplicable
46. **Comparison with Existing Maps**

Comparison has been made with USGS Quadrangle Starbuck, Washington, scale 1:62,500 dated 1948 contour interval 40 ft.

Compilation instructions state that all detail and the 600 ft. and 700 ft. contours that have been changed above the 540 ft. pool level of Lower Monumental Pool, also the 700 ft. and 800 ft. contours above the Little Goose Pool levels should tie into the existing quadrangle. Areas of changes were compiled.

47. **Comparison with Nautical Charts**

No chart exists in this area. This is a new chart compilation for Charts No. 683-SC and No. 684-SC.

Respectfully submitted,

John C. Richter  
Cartographer

Approved and forwarded,

K. N. Maki  
Chief, Compilation Section
June 24, 1970

GEOGRAPHIC NAMES
FINAL NAME SHEET

PH-6804 (Washington)
TP-00022

Alkali Flat Creek *
Camas Prairie Railroad /
Little Goose Dam —

Approved by:
A. J. Wright
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician

* Feature not compiled on this sheet
FIELD EDIT REPORT
Chart Topography
Lower Monumental Pool
Snake River, Washington
Map Manuscripts TP-00019 through TP-00027

This report covers the portion of the Snake River impounded by the
Lower Monumental Dam, and entirely within the State of Washington.

The entire shoreline was inspected by vehicle or small boat. The
shoreline and alongshore features were compared with the field
edit copies of the map manuscripts (discrepancy prints) and/or the
field edit color photographs.

The field edit copies (discrepancy prints) of the map manuscripts
were used as the index for the field corrections and the numbers,
of the photographs used for such corrections appear on the dis-
crepancy prints.

Adequacy of Compilation

The extent and accuracy of the maps appear to be reasonably complete,
considering the compilation was without the benefit of field ins-
pection.

As the river passes through a definite gorge, cliffs and bluffs
are in evidence throughout the project area. The most salient cliffs
were indicated as features of landmark value.

There are so few buildings in the area, that nearly every shoreline
historical feature is of landmark value. Along the railroad are
located two small communities, Ayer and Riparia. They are the
residences of the railroad maintenance and service personnel.

Several recreation areas are found along the shoreline and are in
various stages of development. Usually they consist of a surfaced
launching ramp, a boat and comfort facilities.

All fixed aids to navigation were field checked and photo identified
except Tucannon River Light 34, which was located by traverse
methods, due to its location on the north slope of a cliff.

All landmarks were investigated. All landmarks, recommended for
charting, have been listed on form 567.

Purple ink was used to indicate corrections on the discrepancy
prints. Red tempera ink was used for the annotations on the field
edit photographs. Green ink was used to indicate deletions.

Rocks and shoals were investigated. The elevations of the tops
of these features were determined in the field.
All entries for aids to navigation and landmarks for charts have been hand lettered in ink on Form 567. The smooth copies of the Form 567 can be prepared and submitted to the appropriate sections after the positions of the aids and landmarks have been finalized by the compilation section.

Geographic Names are the subject of a separate report.

A small craft chart facility investigation was completed in the field, concurrent with the field edit. Entries were made on the discrepancy prints.

Sheet TP-00019

Lower Monumental Dam and surfaced ramp are found on this sheet.

Sheet TP-00020

All fixed aids to navigation were investigated and photo-identified. A secondary, dirt road of landmark value is found near the east edge of the sheet.

Sheet TP-00021

A landmark for charts in the form of a tank is found on this sheet, also the railroad community of Ayer.

Sheet TP-00022

Heights of rocks and shoreline corrections were made on this sheet.

Sheet TP-00023

No field edit entries.

Sheet TP-00024

The highway bridge over the Snake River near the mouth of the Palouse River has been completed. It is a fixed span structure. The cofferdam that was constructed around the Marmes Rockshelter failed to save the rockshelter due to uncontrolled seepage. At present a pond is formed in the rockshelter area behind the cofferdam. Two overhead cable crossings and a submerged pipeline crossing are found on this sheet.

Sheet TP-00025

The railroad community of Riparia is found on this sheet. The Project Engineer, Seattle District, Corps of Engineers reported the abandoned piers of the old Riparia railroad bridge were removed to the depths (elevations) that appear on photograph 69E 2302. The masonry bridge abutments are scheduled to remain in place. A landmark in the form of an elevated water tank is found at Riparia.
At Powers a grain elevator and storage tank was compiled as tanks only.

Corrections of the area adjacent to the Little Goose Dam including the northsection (earth fill portion) of the dam, road relocation and an overhead power line should be applied to the manuscript from recent photography that reflects the above changes.

Respectfully Submitted,

[Signature]

Robert B. Melby
Chief, Field Party, PMC
61. General Statement

TP-00027 is the easternmost survey of the project and junctions with TP-00028, PH-7001, (Little Goose Dam and Pool), at the Little Goose Dam. The dam is within the body of TP-00027 and details east of the dam were compiled when photography was received for PH-7001. TP-00027 thus serves both projects as a base manuscript.

62. Comparison with Registered Topographic Surveys

None

63. Comparison with Maps of Other Agencies

Comparison was made with 1:62,500 scale quadrangles, HAAS, Washington, dated 1950 and Starbuck, Washington, dated 1948. These maps were used to compare planimetric features adjacent to the river, as a base for a geographic names verification and to assure correlation between the compiled 600 ft. contour, (the first index contour above the shoreline), and the G. S. topography. Comparison was also made with Corps of Engineers Reservoir Maps compiled in 1957. These maps were used to locate the approximate position of lights for subsequent photoidentification.

64. Comparison with Contemporary Hydrographic Surveys

None - this is a newly formed pool area of the Snake River.

65. Comparison with Nautical Charts

None

66. Adequacy of Results and Future Surveys

This survey complied with project instructions and excellent results were realized in maintaining the required vertical accuracy for the compiled contours and spot elevations to be used as hydrography. The survey meets the National Standards of Accuracy.
67. Geographic Names

A thorough geographic names verification was made by the 1968 field inspection party and approved by the Geographic Names Branch. A names list is included in this report.

Reviewed by,

Sistem P. Batteley Jr

Approved by,

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Photogrammetry Division
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<td>4° 32' 24&quot; N</td>
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The position given have been checked after being charted on February 23rd, 1910.

Seattle, Washington
April 7, 1910

To be charted
(Cr. 886)
TO BE CHARTED
TO BE REVISED
TO BE DELETED

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Seattle, Washington 7 April 1970

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

The positions given have been checked after listing by Lyle L. Riggers

R. B. Melby

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
<tr>
<td>Washington</td>
<td>MCGUIRE ENQ REL LT</td>
<td>1968.91 46 34 75.1 118 04 67.7</td>
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<td>Air Photo</td>
<td>3/25/70</td>
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<td>&quot;</td>
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</tbody>
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<tr>
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<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
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<td>TANK</td>
<td>Tank, Height 25 (235) *</td>
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<td>118 055</td>
<td>218.0</td>
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* referenced to the normal pool level (540' MSL)

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
**U.S. DEPARTMENT OF COMMERCE**
**COAST AND GEODETIC SURVEY**

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

**Seattle, Washington** 7 April 1970

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

The positions given have been checked after listing by **Lyle L. Riggers**

**R. B. Melby**

*Chief of Party*

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
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<td><strong>TANK</strong></td>
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**U.S. DEPARTMENT OF COMMERCE**
**COAST AND GEODETIC SURVEY**

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

**Seattle, Washington** September 2, 1970

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

The positions given have been checked after listing by **Lyle L. Riggers**

**R. B. Melby**

*Chief of Party*

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
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<tr>
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<td><strong>2</strong></td>
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