TP-00331

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey: Shoreline
Job No.: PH-7012
Map No.: TP-00331
Classification No.: Final
Edition No.: 1

LOCALITY
State: Virginia-Maryland
General Locality: Potomac River
Locality: Brent Point to Belvedere Beach

1971 TO 1972

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

Chits
12 2 85 (101-5c) A PK 9/77
12 2 88 (559) A RH 2/78
### Descriptive Report - Data Record

**Photogrammetric Office**

Rockville, Maryland

Officer-In-Charge

Jack E. Guth/J. Collins, Cdr.

#### I. Instructions Dated

1. **Office**
   - Aerotriangulation Instructions
   - Dec. 6, 1971
   - Photogrammetric - Feb. 29, 1972
   - Review of Instructions 2/24/72

2. **Field**
   - Edit March 1, 1972
   - (Instr. missing)

#### II. Datums

1. **Horizontal:**
   - 1927 North American
   - Mean High-Water
   - Mean Low-Water
   - Mean Lower Low-Water
   - Mean Sea Level

2. **Vertical:**
   - Meters

3. **Map Projection:**
   - Mercator

4. **Grid(S):**
   - State: Virginia
   - Zone: North Zone

5. **Scale:**
   - 1:10,000

#### III. History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>1. Aerotriangulation</td>
<td>D. Brandt</td>
<td>3/72</td>
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<tr>
<td>Method: Analytical</td>
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<td></td>
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<tr>
<td>Method: Coradi</td>
<td>D. Phillips</td>
<td>3/72</td>
</tr>
<tr>
<td>2. Control and Bridge Points</td>
<td></td>
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<tr>
<td>Method: B-8</td>
<td>R. Youngblood</td>
<td>3/72</td>
</tr>
<tr>
<td>Planimetry by</td>
<td></td>
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<tr>
<td>Contours by</td>
<td></td>
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<tr>
<td>Compilation</td>
<td>J. Battley Jr.</td>
<td>4/72</td>
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<tr>
<td>Method: Graphic Work Sheets</td>
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<td>Contours by</td>
<td>R. Youngblood</td>
<td>3/72</td>
</tr>
<tr>
<td>Scale: 1:10,000</td>
<td>J. Battley Jr.</td>
<td>4/72</td>
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<td>5. Office Inspection Prior</td>
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<td>6. Application of Field</td>
<td>J. Battley Jr.</td>
<td>4/72</td>
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<td>7. Compilation Section</td>
<td>P. Dempsey</td>
<td>8/76</td>
</tr>
<tr>
<td>8. Final Review</td>
<td>J. Battley Jr.</td>
<td>8/76</td>
</tr>
<tr>
<td>9. Data Forwarded to</td>
<td>J. Phillips</td>
<td>10/76</td>
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<td>Photogrammetric Branch</td>
<td>R.T. Catdek</td>
<td>3/72</td>
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<td>11. Map Registered - Coastal</td>
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<td>Survey Section</td>
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* U.S. G.P.O. 1972-769382/582 REG #6
1. COMPILATION PHOTOGRAPHY

**CAMERA(S):**
- L - 6" Focal length

**TIDE STAGE REFERENCE**
- PREDICTED TIDES
- REFERENCE STATION RECORDS
- TIDE CONTROLLED PHOTOGRAPHY

<table>
<thead>
<tr>
<th>NUMBER AND TYPE</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>71 L (C) 0327-0329</td>
<td>11/14/71</td>
<td>12:16</td>
<td>1:40,000</td>
<td>1:20 above MLW</td>
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<tr>
<td>71 L 9952-9956</td>
<td>10/12/71</td>
<td>12:09</td>
<td>1:20,000</td>
<td>1:10 above MLW</td>
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<tr>
<td>71 L 9976-9977</td>
<td>10/12/71</td>
<td>12:30</td>
<td>1:20,000</td>
<td>1:20 above MLW</td>
</tr>
<tr>
<td>71 L 9971</td>
<td>10/12/71</td>
<td>10:10</td>
<td>1:20,000</td>
<td>0.9' above MLW</td>
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<tr>
<td>71 L 9978-9979</td>
<td>10/12/71</td>
<td>12:31</td>
<td>1:20,000</td>
<td>1:10 above MLW</td>
</tr>
<tr>
<td>71 L 9907-9910</td>
<td>10/12/71</td>
<td>10:11</td>
<td>1:20,000</td>
<td>0.9' above MLW</td>
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<tr>
<td>71 L (C) 0306-0310</td>
<td>11/4/71</td>
<td>11:37</td>
<td>1:40,000</td>
<td>-0.2 below MLW</td>
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<td>71 L (C) 0379-0381</td>
<td>11/5/71</td>
<td>10:50</td>
<td>1:40,000</td>
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**REMARKS**
- 1:20,000 color enlarged to 1:10,000

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation from 1:40,000 scale photography on B-8 stereoplotter.

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.)

<table>
<thead>
<tr>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
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5. FINAL JUNCTIONS

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<th>NORTH</th>
<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
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<tr>
<td>TP-00329</td>
<td>TP-00332</td>
<td>No contemporary survey</td>
<td>TP-00330</td>
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REMARKS
## HISTORY OF FIELD OPERATIONS  TP-00331

### 1. FIELD INSPECTION OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tr>
<td>CHIEF OF FIELD PARTY</td>
<td>Richard D. Olson</td>
<td>July 1972</td>
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<td>HORIZONTAL CONTROL</td>
<td>Richard D. Olson</td>
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<tr>
<td>VERTICAL CONTROL</td>
<td>Richard D. Olson</td>
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<td>LANDMARKS AND AIDS TO NAVIGATION</td>
<td>Richard D. Olson</td>
<td>May 1972</td>
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<td>Subjects:</td>
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### 2. SOURCE DATA

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<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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<td></td>
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| PHOTO NUMBERS (Clarification of details) | 71L434, 71L9878, 71L9906 thru 9910 |
|                                          | 71L9952 thru 9955 & 9957 |

### 3. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

### 4. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None
### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tr>
<td>Shoreline, Offshore detail, inshore for 800 ft.</td>
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<td>Class III manuscript May 1972</td>
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<td>Field edit applied</td>
<td>Aug. 1976</td>
<td>Class I manuscript</td>
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<td>Aug. 1976 AMC</td>
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<td>Final review prior to registration</td>
<td>October 1976</td>
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### II. LANDMARKS AND AIDS TO NAVIGATION

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

<table>
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<th>Chart Letter Number Assigned</th>
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<td>14</td>
<td>9-20-76</td>
<td>Non-floating aids to be charted</td>
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### III. FEDERAL RECORDS CENTER DATA

1. ✔ Bridging Photographs; ☑ Duplicate Bridging Report; ☑ Computer Readouts.
2. ☑ Control Station Identification Cards; ☑ Form NOS 567 Submitted by Field Parties.
3. ☑ Source Data (except for Geographic Names Report) as listed in Section II, NOAA Form 76-36C.
4. ☑ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: ____________

### IV. SURVEY EDITIONS

<table>
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<th>Second Edition</th>
<th>Survey Number</th>
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<td>Date of Photography</td>
<td>Date of Field Edit</td>
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<td>TP -</td>
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<td>II, III, IV, V, Final</td>
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<tr>
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<td>Date of Field Edit</td>
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UPPER POTOMAC RIVER
MARYLAND-VIRGINIA
SHORELINE MAPPING
SCALE 1:10,000

Sheet No.  Sq. Miles
TP-00217   4
TP-00316   12
TP-00317   12
TP-00320   2
TP-00321   12
TP-00322   12
TP-00323   3
TP-00324   10
TP-00325   10
TP-00326   10
TP-00317   12
TP-00318   5
TP-00327   10
TP-00330   3
TP-00331   3
TP-00332   8
TP-00333   8

Total 145
SUMMARY PH-7012  (Southern Part)

Seventeen maps comprise the entire project. This summary covers ten maps that extend along the Potomac River to the south from latitude 38°40'00". The seven maps that extend to the north will be reviewed and summarized in a separate report.

TP-00231 was compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and premarking of horizontal control.

This manuscript was compiled using the Wild B-8 stereoplotter with 1:40,000 scale color photography. Also 1:20,000 scale color photography was ratioed to 1:10,000 scale and common points were dropped along the shoreline as an aid in the location of hydrographic signals.

Field edit was accomplished during May-July 1972.

Final review was accomplished at the Rockville, Maryland, Office in Oct. 1976.

A stable base positive copy of the map and a Descriptive Report will be registered in the NOS Archives.
PHOTOMETRIC PLOT REPORT
Job PH-7012
Upper Potomac River, Maryland-Virginia (Part 1)
March 1972

21. Area Covered

This report covers an area of the Potomac River south
from latitude 38 40 00 to Maryland Point (approximate
latitude 38 20 00). The job consists of ten (10) 1:10,000
scale sheets (TP-00323 thru TP-00332).

22. Method

Severn (7) strips of photographs (strips 1 thru 7) were
bridged using analytical aerotriangulation methods. All
strips were adjusted to premarked control except that
strip 2 was terminated on a position of a common point
determined from strip 3. Strip 4 was terminated from
positions of common points determined from strip 3 and
station MARSH 1928 (field identified sub points). Ties
were made to all strips. Sketch 1 shows the location of
the strips of photography and the horizontal control stations
used in bridging. Common image points were located between
the bridging photography and the hydro support photography
in order to determine the ratio for the 1:10,000 scale
enlargements. Sketch 2 shows the location of the strips
of photography for hydro support. Data for the 1:10,000
scale compilation of the ten (10) sheets were plotted by
the Coradomat on the Virginia (north zone) coordinate system.

23. Adequacy of control

All horizontal control was premarked except CLYHOUTH LIGHT
1958 (identified direct) and MARSH 1928. Field identification
of sub points for MARSH 1928 were determined after the
photography was flown. Horizontal control was adequate.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for
the strip adjustments.
25. **Photography**

The following RC-8 color photography was used in bridging:

1:40,000 scale photography

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<th>Strip</th>
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<tr>
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<tr>
<td>2</td>
<td>71-L(C)-0303 thru 0309</td>
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<tr>
<td>3</td>
<td>71-L(C)-0322 thru 0331</td>
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<tr>
<td>4</td>
<td>71-L(C)-0410 thru 0419</td>
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<td>5</td>
<td>71-L(C)-0397 thru 0407</td>
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<td>6</td>
<td>71-L(C)-0386 thru 0392</td>
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1:20,000 scale photography

<table>
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<tr>
<td>4</td>
<td>71-L(C)-9932 thru 9935</td>
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</table>

The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:

[Signature]

Donaló M. Brant
Cartographer

Approved and forwarded:

[Signature]

Henry P. Eichert, Chief
Aerotriangulation Section
JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING
SCALE 1:10,000

LEGEND
○ 1:40,000 PHOTOGRAPHY
○ 1:20,000 PHOTOGRAPHY
Δ PRE-MARKED CONTROL
□ COMMON PT.
31. **Delineation**

1:40,000 scale color bridging photography was set on the B-8 stereoplotter for delineation of the shoreline, foreshore, and offshore features.

1:20,000 scale color photography was ratioed to 1:10,000 scale and common points were dropped along the shoreline for hydro support.

32. **Control**

Horizontal control was adequate for density and placement.

Vertical control from USGS quads and water level.

33. **Supplemental Data**

None.

34. **Contours and Drainage**

Inapplicable.

35. **Shoreline and Alongshore Details**

Shoreline was delineated by office interpretation from color photographs dated November 1971.

No low water lines or shoal areas were delineated.

36. **Offshore Details**

None.

37. **Landmarks and Aids**

None. (2 Lts. were located during compilation and verified by the field editor.)
38. **Control for Future Surveys**
   None.

39. **Junctions**
   To the north with TP-00329
   To the east with TP-00332.
   To the west with TP-00330.
   No contemporary survey to the south.

40. **Horizontal and Vertical Accuracy**
   See Photogrammetric Plot Report.

41. **Inapplicable**
   thru
45.

46. **Comparison with Existing Maps**
   Comparison was made with USGS quadrangles, Widewater, Va.-Md.,
   Scale 1:24,000, edition 1966, and Passapatanzy, Va.-Md.,
   scale 1:24,000, edition 1966.

47. **Comparison with Nautical Charts**
   Comparison was made with Nautical Chart No. 559, scale
   Items to be applied to nautical charts immediately.
   None.
   Items to be carried forward.

None.
Submitted by:

Patrick J. Dempsey
Coastal Mapping Section

Approved and Forwarded:

J. P. Battley, Jr.
Chief, Coastal Mapping Section
51. METHODS

All field edit work was done in accordance with project instructions to Chief of Hydrographic Field Party 742 titled OPR-409-HFF-742-72, Potomac River, Maryland, dated March 1, 1972.

An inspection was made of all mean high water line and alongshore features and all additions, deletions, and corrections are shown on the field edit ozalid and photos 71L434, 71L9878, 71L9906 thru 9910, 71L9952 thru 9955 and 9957.

In areas where tree overhang prevented accurate compilation of the mean high water line, sextant fixes were taken. The positions of all signals used in sextant fixes are listed on the T-Sheet field edit ozalid. All times mentioned on the field edit ozalid refer to GMT, (Greenwich Mean Time).

All notes on this sheet by the field editor are in violet ink to indicate additions or changes, and in green to indicate deletions.

52. ADEQUACY OF COMPILATION

The compilation was adequate considering there had not been any field inspection.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

The name discrepancy involving the placement of names Clifton Beach and Smith Point was investigated with a local fisherman and a Maryland State Marine Police Officer with the following results.

Donald D. Davis
Liverpool Rd.
Nanjemoy, Maryland

Mr. Davis is a lifetime resident of this area and has been engaged in commercial fishing for 18 years while docking his boats at the small piers located about 300 yards south of Clifton Beach Light. Mr. Davis stated that the point of land known locally as "Smith
Point" is the northern of the two points of land in the vicinity of Lat. 38° 25' Long. 77° 16'. He stated that "Clifton Beach" is the sandy beach that extends south of Smith Point. He also said that he knew the owner of the property around Smith Point and that the owner was the person who had given the name to Clifton Beach.

Pete Kelly
Maryland State Marine Police
State Office Building, Annapolis, Md.

Mr. Kelly is boat captain for the Maryland State Marine Police and has been engaged in the marine patrol of this portion of the Potomac River for five years. He also stated that "Smith Point" was known locally as the northern of the two points and that "Clifton Beach" was the sandy beach south of Smith Point.

56. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are no landmarks recommended for charting. There are 14 aids to navigation recommended for charting, 10 of which are day beacons and 4 are lights.

Respectfully submitted,

Richard D. Olson
Lt. NOAA
Chief, Photo Party 61
Notes on Field Edit Application:

All field edit information was applied to the field edit ozalid. No cronaflex copies or separate data records were supplied.

The recommended aids and landmarks were plotted from geographic positions furnished by the field editor and listed on the field edit ozalid. No records of the methods used were available in the office.

Considerable bluff areas indicated on the field edit photos were not delineated. A stereoscopic examination of the photography found most of these to be of little landmark value.

Difficulty was encountered in plotting the large piling area off "Youbedamn Landing". A few of the angles were listed wrong and there were no measurements for the distance the piling began off the end of the compiled groin.

TP-00331 is now a Class I manuscript and a cronaflex copy is being forwarded to the Hydro Verification Branch in AMC.

At Waugh Point and just west of the point, three piles were indicated on the field ozalid as "fixes 4481, 4482, and 4483, boat sheet 10-2-72 HFP 742. As the boat sheet was not available, these piles were not plotted.

Jeter P. Battley, Jr.
Chief, Coastal Mapping Section
62. **Comparison with Registered Topographic Surveys**

PH-6104 covers this area of the Potomac River. The job was started in 1961 but was canceled before all the sheets were compiled. This manuscript supersedes the earlier project.

63. **Comparison with Maps of Other Agencies**

Passapatanzy, Va.-Md. 1:24,000 1966

64. **Comparison with Contemporary Hydrographic Survey**

The hydrographic survey boat sheets are in the AMC. Class I manuscript copies were recently forwarded for use in smooth sheet processing.

65. **Comparison with Nautical Charts**

12288 1:40,000 1975

A Ldmk "Chimney" is shown in the vicinity of 38°20' latitude and 77°16'15" longitude on this chart. The field editor did not furnish a position. Field editors report states there are no landmarks recommended for charting.

66. **Adequacy of Results and Future Surveys**

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:

J. B. Phillips

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
November 8, 1976

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-7012 (Potomac River)
TP-00331

Accokeek Creek
Aquia Creek
Belle Plains
Belvedere Beach
Black Swamp
Boykins Island
Brent Point
Bull Bluff
Clifton Beach
Crows Nest Point
Dirt Bridge Run
Indian Point
Marlboro Point

Maryland
Old Landing Point
Passapatanzy Creek
Potomac Creek
Potomac River
Shackley Point
Simms Point
Smith Point
Thomas Point
Thorny Point
Virginia
Waugh Point
Whipsawasons Point

Approved by:

Staff Geographer-C51x2
Chas. E. Harrington
<table>
<thead>
<tr>
<th>Name</th>
<th>Charting</th>
<th>Chart Reason</th>
<th>Latitude</th>
<th>Longitude</th>
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<tbody>
<tr>
<td>UPPER POTOMAC RIVER POTOMAC CREEK</td>
<td>LIGHT 2</td>
<td>Ditto</td>
<td>38 20 38.16</td>
<td>1176.6 Not</td>
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<tr>
<td></td>
<td>DYNB 3</td>
<td>Ditto</td>
<td>38 20 47.48</td>
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<td></td>
<td>DYNB 4</td>
<td>Ditto</td>
<td>38 20 51.01</td>
<td>1572.8 Not</td>
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<td>DYNB 5</td>
<td>Ditto</td>
<td>38 20 43.90</td>
<td>1353.6 Not</td>
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<td>DYNB 6</td>
<td>Ditto</td>
<td>38 20 41.64</td>
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<td>38 20 37.67</td>
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<td>DYNB 8</td>
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<td>38 20 41.24</td>
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<td>AQUIA CREEK</td>
<td>LIGHT 2</td>
<td>Ditto</td>
<td>38 22 57.57</td>
<td>1775.1 Not</td>
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</table>

Note: The charting was performed on SEP 22 1978. The charting is written in red ink.
<table>
<thead>
<tr>
<th>TYPE OF ACTION</th>
<th>NAMES OF RESPONSIBLE PERSONNEL</th>
<th>ORIGINATOR</th>
</tr>
</thead>
</table>
| POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES | RICHARD D. OLSON
PATRICK J. DEMPSEY
N/A
JAMES H. TAYLOR | FIELD REPRESENTATIVE
OFFICE COMPILER
DIGITIZER
DATA PROCESSOR |
## Upper Potomac River

### Aquia Creek (Cont.)

<table>
<thead>
<tr>
<th>Light</th>
<th>Position</th>
<th>Description</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>DITTO</td>
<td></td>
<td>10/12/71</td>
</tr>
<tr>
<td>5</td>
<td>DITTO</td>
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<td>7/7/75</td>
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<td>10/12/71</td>
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<tr>
<td>8</td>
<td>DITTO</td>
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<td>7/7/75</td>
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<td>10</td>
<td>DITTO</td>
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<td></td>
<td>7/1575</td>
</tr>
</tbody>
</table>

### Clifton Beach Light

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
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<tbody>
<tr>
<td>38 24 56.37</td>
<td>1738.1 NIT</td>
<td>05/11/72</td>
</tr>
</tbody>
</table>

**Notes:**
- Copy to 57/H.C.G.
- Copy to WASH. D.C. (HQ)  
- SEP 22 1978
<table>
<thead>
<tr>
<th>TYPE OF ACTION</th>
<th>NAMES OF RESPONSIBLE PERSONNEL</th>
<th>ORIGINATOR</th>
</tr>
</thead>
</table>
| POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES | RICHARD D. OLSON  
PATRICIA J. DEMSEY  
JAMES H. TAYLOR | FIELD REPRESENTATIVE  
OFFICE COMPILER  
DIGITIZER  
DATA PROCESSOR |
<table>
<thead>
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<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
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<td>P.C. Pg. 21</td>
<td>N.A. 1927</td>
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<td>263,218.05</td>
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<tr>
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<td>260,113.76</td>
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<td>N.A. 1927</td>
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<td>248,410.43</td>
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</tbody>
</table>
### INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>A</th>
<th>REMARKS</th>
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<td>122-88</td>
<td>8-28-78</td>
<td>Richard Hogan</td>
<td>Full Part Before After Verification Review</td>
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Full Part Before After Verification Review Inspection Signed Via Drawing No.

Full Part Before After Verification Review Inspection Signed Via Drawing No.

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Full Part Before After Verification Review Inspection Signed Via Drawing No.

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