STA. 61+500 to STA. 72+000 – 04 OCT 24
STA. 72+000 to STA. 88+001 – 03 OCT 24
STA. 88+001 to STA. 99+000 – 30 SEP 24

US Army Corps of Engineers Philadelphia District

1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

2. HORIZONTAL REFERENCE - NAD 83, DELAWARE STATE PLANE, ZONE 0700, U.S. FOOT.

3. VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS BELOW N.A.V.D. 88 BY THE FOLLOWING:

1.35' FROM STA. 99+000 to STA. 93+665.15	1.73' FROM STA. 70+690.30 to STA. 69+547.55
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1.43' FROM STA. 92+298.80 to STA. 90+932.39	1.78' FROM STA. 68+347.54 to STA. 67+204.79
1.46' FROM STA. 90+932.39 to STA. 88+000.72	1.81' FROM STA. 67+204.79 to STA. 65+931.82
1.52' FROM STA. 88+000.72 to STA. 81+584.56	1.83' FROM STA. 65+931.82 to STA. 65+057.98
1.57' FROM STA. 81+584.56 to STA. 80+605.14	1.84' FROM STA. 65+057.98 to STA. 64+184.09
1.59' FROM STA. 80+605.14 to STA. 79+625.72	1.86' FROM STA. 64+184.09 to STA. 63+310.25
1.61' FROM STA. 79+625.72 to STA. 76+992.33	1.89' FROM STA. 63+310.25 to STA. 61+274.60
1.64' FROM STA. 76+992.33 to STA. 74+054.47	1.93' FROM STA. 61+274.60 to STA. 59+888.02
1.67' FROM STA. 74+054.47 to STA. 72+585.54	2.02' FROM STA. 59+888.02 to STA. 53+500
1.70' FROM STA. 72+585.54 to STA. 70+690.30	

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5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL SHIFTED TO THE CELL CENTER.

6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.

7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.

8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

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Scale in Feet
200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
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- 34 - 35
- 33 - 34
- 32 - 33
- 31 - 32
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Traced By: E. Anthony
Plotted By: E. Mulvenna
Drawing No.
Plot Scale: 1 in to 200 ft
Approved: _____
Chief, Survey Section

Chesapeake and Delaware Canal
Summit Bridge to Bull Minnow Point
EXAMINATION
STA. 61+400 TO STA. 99+000

E-CD-127

US Army Corps of Engineers Philadelphia District

STA. 61+500 to STA. 72+000 – 04 OCT 24
STA. 72+000 to STA. 88+001 – 03 OCT 24
STA. 88+001 to STA. 99+000 – 30 SEP 24

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Drawing No.

Plot Scale: 1 in to 200 ft

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Traced By: E. Anthony

Plotted By: E. Mulvenna

Approved: _____
Chief, Survey Section

Chesapeake and Delaware Canal
Summit Bridge to Bull Minnow Point
EXAMINATION
STA. 61+400 TO STA. 99+000

E-CD-127

VICINITY MAP

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1.52' FROM STA. 88+000.72 to STA. 81+584.56	1.83' FROM STA. 65+931.82 to STA. 65+057.98
1.57' FROM STA. 81+584.56 to STA. 80+605.14	1.84' FROM STA. 65+057.98 to STA. 64+184.09
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1.61' FROM STA. 79+625.72 to STA. 76+992.33	1.89' FROM STA. 63+310.25 to STA. 61+274.60
1.64' FROM STA. 76+992.33 to STA. 74+054.47	1.93' FROM STA. 61+274.60 to STA. 59+888.02
1.67' FROM STA. 74+054.47 to STA. 72+585.54	2.02' FROM STA. 59+888.02 to STA. 53+500
1.70' FROM STA. 72+585.54 to STA. 70+690.30	

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Scale in Feet
200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 35 - 48.39
- 34 - 35
- 33 - 34
- 32 - 33
- 31 - 32
- 30 - 31
- 19.69 - 30

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US Army Corps of Engineers
Philadelphia District

STA. 61+500 to STA. 72+000 – 04 OCT 24
STA. 72+000 to STA. 88+001 – 03 OCT 24
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Surveyed By:
Traced By: E. Anthony
Plotted By: E. Malverna
Drawing No.
Plot Scale: 1 in to 200 ft
Approved: _____ Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Chesapeake and Delaware Canal
Summit Bridge to Bull Minnow Point
EXAMINATION
STA. 61+400 TO STA. 99+000

E-CD-127

US Army Corps of Engineers
Philadelphia District

STA. 61+500 to STA. 72+000 – 04 OCT 24
STA. 72+000 to STA. 88+001 – 03 OCT 24
STA. 88+001 to STA. 99+000 – 30 SEP 24

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Traced By: E. Anthony
Plotted By: E. Malverna
Chief, Survey Section
Drawing No.
Plot Scale: 1 in to 200 ft
Approved:

Chesapeake and Delaware Canal
Summit Bridge to Bull Minnow Point
EXAMINATION
STA. 61+400 TO STA. 99+000

E-CD-127

US Army Corps of Engineers
Philadelphia District

STA. 61+500 to STA. 72+000 – 04 OCT 24
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Chesapeake and Delaware Canal
Summit Bridge to Bull Minnow Point
EXAMINATION
STA. 61+400 TO STA. 99+000

E-CD-127

VICINITY MAP

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200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 35 - 48.39
- 34 - 35
- 33 - 34
- 32 - 33
- 31 - 32
- 30 - 31
- 19.69 - 30

US Army Corps of Engineers
Philadelphia District

STA. 61+500 to STA. 72+000 – 04 OCT 24
STA. 72+000 to STA. 88+001 – 03 OCT 24
STA. 88+001 to STA. 99+000 – 30 SEP 24

DISCLAIMER:
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and plotters. Water depths can change at any time and vary from "time, waves, currents, and other maritime effects. Survey data may not show all navigation hazards in waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and plotters can also create inaccuracies.

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Traced By: E. Anthony
Plotted By: E. Mulvenna
Drawing No.
Plot Scale: 1 in to 200 ft
Approved: _____
Chief, Survey Section

Chesapeake and Delaware Canal
Summit Bridge to Bull Minnow Point
EXAMINATION
STA. 61+400 TO STA. 99+000

E-CD-127

VICINITY MAP

1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

2. HORIZONTAL REFERENCE - NAD 83, DELAWARE STATE PLANE, ZONE 0700, U.S. FOOT.

3. VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS BELOW N.A.V.D. 88 BY THE FOLLOWING:

1.35' FROM STA. 99+000 to STA. 93+665.15	1.73' FROM STA. 70+690.30 to STA. 69+547.55
1.41' FROM STA. 93+665.15 to STA. 92+298.80	1.76' FROM STA. 69+547.55 to STA. 68+347.54
1.43' FROM STA. 92+298.80 to STA. 90+932.39	1.78' FROM STA. 68+347.54 to STA. 67+204.79
1.46' FROM STA. 90+932.39 to STA. 88+000.72	1.81' FROM STA. 67+204.79 to STA. 65+931.82
1.52' FROM STA. 88+000.72 to STA. 81+584.56	1.83' FROM STA. 65+931.82 to STA. 65+057.98
1.57' FROM STA. 81+584.56 to STA. 80+605.14	1.84' FROM STA. 65+057.98 to STA. 64+184.09
1.59' FROM STA. 80+605.14 to STA. 79+625.72	1.86' FROM STA. 64+184.09 to STA. 63+310.25
1.61' FROM STA. 79+625.72 to STA. 76+992.33	1.89' FROM STA. 63+310.25 to STA. 61+274.60
1.64' FROM STA. 76+992.33 to STA. 74+054.47	1.93' FROM STA. 61+274.60 to STA. 59+888.02
1.67' FROM STA. 74+054.47 to STA. 72+585.54	2.02' FROM STA. 59+888.02 to STA. 53+500
1.70' FROM STA. 72+585.54 to STA. 70+690.30	

4. GEOID 12B AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL SHIFTED TO THE CELL CENTER.

6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.

7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.

8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

9. THE INFORMATION DEPICTED ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

10. THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

11. THE LIMITS OF THE FEDERAL CHANNEL DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:

http://navigation.usace.army.mil/Survey/Framework

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