Formerly C&GS 570, 1st Ed., May 1938. Gr-1808-477 KAPP-631

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST

MARYLAND-DELAWARE-NEW JERSEY

CHESAPEAKE AND DELAWARE CANAL

Mercator Projection
Scale 1:20,000 at Lat. 39°32'
North American Datum of 1983
(World Geodetic System 1984)
SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov.

HEIGHTS
Heights in feet above Mean High Water.

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 3 for important supplemental information.

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT./LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Reedy Point	(39°34'N/75°34'W)	5.6	5.5	0.2
Summit Bridge	(39°32'N/75°44'W)	3.8	3.8	0.1
Chesapeake City	(39°32'N/75°49'W)	3.3	3.1	0.2
Old Town Point Wharf	(39°30'N/75°53'W)	2.7	2.4	0.2

Datums (–) – located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

(Aug 2014)

CHESAPEAKE AND DELAWARE CANAL PROJECT DEPTHS
(see note)

NAME OF CHANNEL	PROJECT DEPTH (FEET)
TURKEY POINT TO OLD TOWN POINT WHARF	35
OLD TOWN POINT WHARF TO BULL MINNOW POINT	35
BULL MINNOW POINT TO CHESAPEAKE CITY BRIDGE	35
CHESAPEAKE CITY BRIDGE TO BETHEL	35
BETHEL TO GUTHRIES RUN	35
GUTHRIES RUN TO SUMMIT BRIDGE	35
SUMMIT BRIDGE TO CONRAIL BRIDGE	35
CONRAIL BRIDGE TO ST. GEORGES BRIDGE	35
ST. GEORGES BRIDGE TO BIDDLE POINT	35
BIDDLE POINT TO REEDY POINT BRIDGE	35
REEDY POINT BRIDGE TO DELAWARE RIVER	35
DELAWARE RIVER WIDENING	35

PROJECT DEPTHS
Channel legends and tabulations, where indicated, reflect the U.S. Army Corps of Engineers (USACE) project depths. The channel may be significantly shoaler, particularly at the edges. For detailed channel information and minimum depths as reported by USACE, use NOAA Electronic Navigational Charts. USACE surveys and channel condition reports are available at http://navigation.usace.army.mil/Survey/Hydro.

SALEM RIVER CHANNEL
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2015

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT SIDE QUARTER	MIDDLE HALF CHANNEL	RIGHT SIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUTICAL MILES)	DEPTH (FEET)
ELSINBORO POINT TO OAKWOOD BEACH	7.4	11.3	10.6	7-16	150	1.48	16
OAKWOOD BEACH TO SINNICKSON LANDING	9.2	14.9	14.3	7-16	150	1.56	16
SINNICKSON LANDING TO END OF PROJECT	8.9	16.5	10.7	7-16	150	0.71	16
	TURNING BASIN PROJECT WIDTH						
	80%	100%					
TURNING BASIN	11.4	8.3		7-16	320	0.2	16

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 25 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Philadelphia, PA	KIH-28	162.475 MHz
Sudlersville, MD	WXK-97	162.500 MHz

RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

SOURCE

A 1990-2019	NOS Surveys	full bottom coverage
B2 1970-1989	NOS Surveys	partial bottom coverage
B4 1900-1939	NOS Surveys	partial bottom coverage

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 3. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Virginia or at the Office of the District Engineer, Corps of Engineers in Philadelphia, Pennsylvania.
Refer to charted regulation section numbers.
Additional general instructions supplementing 207.100, may be found in Chapter 7, Coast Pilot 3.

LOCAL MAGNETIC DISTURBANCE
Differences of as much as 2° to 5° from the normal variation have been observed along the Delaware River Channel.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.3"W northward and 1.238"eastward to agree with this chart.

SCALE 1:20,000
Nautical Miles
Yards

CAUTION
FISH TRAP AREAS AND STRUCTURES
Mariners are warned that numerous uncharted duck blinds and fishing structures, some submerged, may exist in the fish trap areas. Such structures are not charted unless known to be permanent.
Regulations to assure clear passage to and through dredged and natural channels, and to established landings, are prescribed by the Corps of Engineers, Code of Federal Regulations.
Definite limits of fish trap areas have been established in some areas, and those limits are shown thereon.
Where definite limits have not been prescribed, the location of fishing structures is restricted only by the regulations.

NOTE B
DELAWARE RIVER
The project depth is 40 feet in Reedy Island Range and New Castle Range.

LIGHTS
Mercury vapor lights are located approximately 140 feet from the edge of the channel. The lights in general are 600 feet apart on both banks.

NOTE C
TRAFFIC LIGHTS
Traffic lights are in operation at Reedy Point Entrance and at Old Town Point Wharf.
Consult Chapter 7, U.S. Coast Pilot 3 for regulations for the control of traffic in the Canal before entering.

PRIVATE CHANNELS
Bulkhead, Shoal Channel, the turning basin and Cedar Creek Channel are projects of Star Enterprise Co.
Aids to navigation are private

LIGHTS
Mercury vapor lights are located approximately 140 feet from the edge of the channel. The lights in general are 500 feet apart on both banks.

Pilot Transfer Station Note:
A pilot transfer station exists between 39° 31' 56" N, 075° 47' 24" W, one mile on either side of the Chesapeake City Bridge.

CHESAPEAKE AND DELAWARE CANAL BRIDGE CLEARANCES
VERTICAL CLEARANCES ARE EXPRESSED IN FEET ABOVE MEAN HIGH WATER (MHW)

	225 feet South of C/L	150 feet South of C/L	Centerline of Canal	150 feet North of C/L	225 feet North of C/L
REEDY PT BRIDGE	134 (133)	135	136	135	134 (133)
ST GEORGES BRIDGE E	132	134	137	134	132
ST GEORGES BRIDGE W			142		
CONRAIL LIFT BRIDGE			45 (Down) *129 (Low Lift) **138 (High Lift)		45 (Down) *129 (Low Lift) **137 (High Lift)
PIPELINE CROSSING	141	141	141	141	141
SUMMIT BRIDGE	135 (132)	137	138	137	135 (131)
CHESAPEAKE CITY BRIDGE	136 (135)	138	140	138	136 (134)

Notes: 136- -Clearances below lowest steel girder of bridge.
(134)-Clearances below navigation lights.
*Normal low limit stop for raised position of Conrail Lift Bridge.
**The Conrail Lift Bridge limit override allows an additional 8 feet of clearance. (indicated by alignment of white lines)

OYSTER AQUACULTURE
Oyster bed aquaculture leases may exist within the limits of this chart. Mariners are cautioned that numerous markers may mark oyster beds which may be active in the area. Caution should be exercised when navigating in or near these areas, not to anchor or ground, in order to avoid damage to the beds. Depths may be shallower than the soundings shown. For more information, contact the local department of natural resources.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.
During some winter months or when encountered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area — Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.

PLANE COORDINATE GRID
(based on NAD 1927)
The Maryland State Grid is indicated on this chart at 10,000 foot intervals thus:
The last three digits are omitted.

CAUTION
Improved channels shown by broken lines are subject to shoaling, particulary at the edges.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)
Aids to Navigation (lights are white unless otherwise indicated)

AERO aeronautical
A alternating
Bk black
Bn beacon
C can
DIA diaphone
F fixed
Fl flashing
G green
Gp group
Iso isophase
LH HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Osc oscillating
Q quick
R red
Ra Ref radar reflector
R Rfl radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHIS whistle
Y yellow

Bottom characteristics:
Blds boulders
bk broken
Cy clay
Co coral
gl gravel
Grs grass
gy grey
h hard
M mud
Oys oysters
Rk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous:
AUTH authorized
ED existence doubtful
Obstn obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged
Wk wreck, rock, obstruction, or shoal swept clear to the depth indicated.
Rocks that cover and uncover, with heights in feet above datum of soundings.

CONTINUED ON CHART 12311

CONTINUED ON CHART 12274

JOINS PANEL BELOW

JOINS TOP PANEL

JOINS PANEL ABOVE

Overlapping ZZ-2 hazard to navigation printed on this chart, for the latest printed chart print this area at 200%.

12277

CAUTION
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

This chart is canceled. No new editions will be issued.

37th Ed., Aug. 2010, Last Correction: 9/5/2023 Cleared through
LNM: 07/24 (3/1/2024); NM: 09/24 (3/2/2024)

To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).

SOUNDINGS IN FEET

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.html.

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
FEET 0 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96 102 108 114 120 126 132 138 144 150 156 162 168 174 180 186 192 198 204 210 216
METERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

Chesapeake and Delaware Canal
SOUNDINGS IN FEET - SCALE 1:20,000

12277