

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-01-SF **Great Wicomico River**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 89A, 5/28/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 013-089A, 6/15/2020

The upstream portion of the Great Wicomico River was included on the 1998 303(d) list due to VDH Shellfish Condemnation 89A, 5/28/1997. Although the condemnation later expanded larger than the 1998 condemnation (see C01E-01-SF2), the bacteria TMDL only addressed the original upstream portion, which is now considered Category 4A. The TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

During the 2010 cycle, it was determined that a portion of the 1998 condemnation is considered an administrative closure by the VDH; therefore, the Shellfish Use was removed from the administrative portion and the segment was partially delisted.

The downstream extent shrank in the 2022 cycle and the mainstem condemnation is currently smaller than the TMDL extent. The expansion is limited to Blackwells Creek. The seasonally condemned portion of the TMDL extent will be partially delisted as will the mainstem expansion.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BMS01A12 / Bush Mill Stream / Tidal limit to mouth at Great Wicomico River CB5MH	4A	Fecal Coliform	1998	L	0.095
VAP-C01E_GWR01A98 / Great Wicomico River / Portion of condemnation notice 013-089A, 6/15/2020 which is not administratively closed, excluding Head River Branch and Bush Mill Stream CB5MH	4A	Fecal Coliform	1998	L	0.232
VAP-C01E_HRB01A12 / Head River Branch / Tidal limit to mouth at Bush Mill Stream. CB5MH	4A	Fecal Coliform	1998	L	0.020

Great Wicomico River

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.346		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-01-SF2 Blackwells Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 013-089D, 6/15/2020.

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Notice and Description of Shellfish Condemnation 013-089D, 6/15/2020

The upstream portion of the Great Wicomico River was included on the 1998 303(d) list due to VDH Shellfish Condemnation 89A, 5/28/1997. The condemnation later expanded downstream on the mainstem and also incorporated Blackwells Creek. The bacteria TMDL only addressed the original upstream portion.. As the segment first expanded in the 2004 cycle, the TMDL for this expanded portion is due in 2016.

Over several cycles, the expansion has reduced in size and split. In the 2022 cycle, the mainstem expansion was re-opened and will be partially delisted. The impairment is now limited to a portion of Blackwells Creek.

The impairment is nested within the Great Wicomico River Shellfish TMDL, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007. It is therefore considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BLA01A22 / Blackwells Creek / Described in VDH-DSS Condemnation 013-08D, 6/15/2020 CB5MH	4A	Fecal Coliform	2004	L	0.045

Blackwells Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.045		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-02-SF **Balls Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 89B, 5/28/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 013-089F, 6/15/2020

The upstream portion of Balls Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 89B, 5/28/1997. The impairment was addressed in the Great Wicomico River Shellfish TMDL Report, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

Although the condemnation is currently larger than the 1998 condemnation, the bacteria TMDL only addressed the original upstream portion, which is now considered Category 4A. As the segment first expanded in the 2002 cycle, the TMDL for the expansion will be due in 2014 (see C01E-02-SF2).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BLS01A02 / Balls Creek / Described in VDH-DSS condemnation notice 89B, 5/28/1997. CB5MH	4A	Fecal Coliform	1998	L	0.064

Balls Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.064		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-02-SF2 Balls Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation Number 013-089F, 6/15/2020 not included in the 5/28/1997 condemnation.

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 013-089F, 6/15/2020

The upstream portion of Balls Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 89B, 5/28/1997. Although the condemnation is currently larger than the 1998 condemnation, the bacteria TMDL only addressed the original upstream portion, which is now considered Category 4A. As the segment first expanded in the 2002 cycle, the due date for the expansion is 2014.

The impairment is considered nested in the Balls Creek TMDL (Great Wicomico River Shellfish TMDL Report), which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

The size was reduced in the 2022 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BLS02A08 / Balls Creek / Portion of condemnation notice 013-089F, 6/15/2020 not included in 89B, 5/28/1997. Size reduced in the 2022 cycle. CB5MH	4A	Fecal Coliform	2002	L	0.042

Balls Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.042		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-03-SF **Tipers Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 89C, 5/28/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 013-089E, 6/15/2020

The upstream portion of Tipers Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 89C, 5/28/1997. The TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

Although the condemnation later expanded beyond the 1998 condemnation, the bacteria TMDL only addressed the original upstream portion, which is now considered Category 4A. The lower portion is addressed in fact sheet C01E-03-SF2.

In the 2022 cycle, the condemnation shrank and the downstream portion is now seasonally condemned. The expansion will be delisted (Category 2B). The portion of the seasonal condemnation within the approved TMDL will be partially delisted (Category 2C/2B).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_TIP01A98 / Tipers Creek / Described in VDH-DSS condemnation notice 013-089E, 6/15/2020 Split in the 2022 cycle. CB5MH	4A	Fecal Coliform	1998	L	0.052

Tipers Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.052		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-04-SF Henrys Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 016-057C, 11/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 016-057C, 11/15/2020

The TMDL for Henrys Creek was developed as part of the Indian Creek Shellfish TMDL, which was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. The TMDL was developed for the maximum extent of the condemnations, which occurred on 1/28/2005.

The condemnation expanded slightly in the 2020 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_HEN01A00 / Henrys Creek / Described in VDH condemnation 016-057C, 11/15/2020. Expanded in the 2020 cycle. CB5MH	4A	Fecal Coliform	2018	L	0.041

Henrys Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.04		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-05-SF Whays Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 089D, 4/3/2002

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 013-220B, 6/15/2020

The upstream portion of Whays Creek was included on the 1998 303(d) list as impaired of the Shellfish Consumption Use due to VDH Condemnation 89F, 5/28/1997. The shellfish TMDL , which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007, was based on condemnation 089D, 4/3/2002.

In the 2022 cycle, the condemnation shrank. The downstream re-opened area will be partially delisted (Category 2C.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_WHY01A98 / Whays Creek / Described in VDH-DSS condemnation notice 013-220B, 6/15/2020 CB5MH	4A	Fecal Coliform	1998	L	0.028

Whays Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.028		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-06-SF Warehouse Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 089E, 5/28/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 013-220A, 6/15/2020

The upper portion of Warehouse Creek was included on the 1998 303(d) list due to VDH Condemnation 89E, 5/28/1997. Although the condemnation has since expanded, the bacteria TMDL was completed only for the original upstream portion. The TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007. The upper portion is considered Category 4A. The lower portion is addressed in fact sheet C01E-06-SF2.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_WCO01A98 / Warehouse Creek / Described in the condemnation notice 89E, 5/28/1997 CB5MH	4A	Fecal Coliform	1998	L	0.069

Warehouse Creek

Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.069		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-06-SF2 Warehouse Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation Number 013-220A, 6/15/2020 not included in condemnation 89E, 5/28/1997.

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 013-220A, 6/15/2020

The upper portion of Warehouse Creek was included on the 1998 303(d) list due to VDH Condemnation 89E, 5/28/1997. Although the condemnation has since expanded, the bacteria TMDL was completed only for the original upstream portion. The due date is 2018 since it first expanded in the 2006 cycle.

The impairment is considered nested within the upstream Warehouse Creek Shellfish TMDL. The TMDL was developed as part of the Great Wicomico River Watershed TMDL report and was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_WCO02A08 / Warehouse Creek / Portion of VDH condemnation notice 013-220A, 6/15/2020 not included in 89E, 5/28/1997 CB5MH	4A	Fecal Coliform	2006	L	0.008

Warehouse Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.008		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-08-BAC** **Cockrell Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 012-002A, 9/22/2005.

Cause City/County: Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: Due to monitoring around the Omega Protein facility during development of the Cockrell Creek Shellfish TMDL, the segment was listed for the Recreation Use due to enterococci exceedances at several stations. Monitoring at downstream station 7-COC000.27 was acceptable.

The enterococci TMDL was due in 2020, however it was addressed during the Shellfish TMDL, which was approved by the EPA on 12/8/2008 and by the SWCB on 4/28/2009. The segment is considered Category 4A.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_COC04A20 / Cockrell Creek / Portion of VDH-DSS Condemnation Notice 012-002A, 9/22/2005 open 8/15/2020 CB5MH	4A	Enterococcus	2008	L	0.202
VAP-C01E_COC04B10 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002A, 8/15/2020 CB5MH	4A	Enterococcus	2008	L	0.198
VAP-C01E_COC04C22 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002S194, 8/15/2020. CB5MH	4A	Enterococcus	2008	L	0.070

Cockrell Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.47		

Sources: Agriculture; Industrial Point Source Discharge; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-09-SF Prentice Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 022D, 2/27/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Condemnation 015-022E, 6/15/2020

This portion of Prentice Creek was included on the 1998 303(d) list due to condemnation 022D, 2/27/1997. The bacteria TMDL for the 1998 impairment was completed as part of the Dividing Creek and Prentice Creek Bacteria TMDL report; the TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

During the 2010 cycle, the condemnation expanded and merged with another 1998 condemnation on an unnamed tributary. The 1998 segment is considered Category 4A for the Shellfish Use; the expanded area is addressed in fact sheet C01E-09-SF2.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_PNT03A02 / Prentice Creek / Described in VDH-DSS condemnation notice 022D, 2/27/1997. CB5MH	4A	Fecal Coliform	1998	L	0.015

Prentice Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.015		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-09-SF2 Prentice Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation 015-022E, 6/15/2020 not included in 022D or 022C, 2/27/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Condemnation 015-022E, 6/15/2020

Two portions of Prentice Creek was included on the 1998 303(d) list due to condemnations 022C & 022D, 2/27/1997. The bacteria TMDL for the 1998 impairment was completed during the 2008 cycle as part of the Dividing Creek and Prentice Creek Bacteria TMDL report; the TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

During the 2010 cycle, the condemnations expanded and merged. The 1998 segments are considered Category 4A for the Shellfish Use; the TMDL for the expanded area is due in 2022. The impairment is nested in the Prentice Creek Bacterial TMDL and is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_PNT02B10 / Prentice Creek / Portion of VDH-DSS condemnation 015-022E, 6/15/2020 that was open on 022, 2/27/1997. CB5MH	4A	Fecal Coliform	2010	L	0.014

Prentice Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.014		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-10-EBEN Cockrell Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 012-002B, 8/28/2018

Cause City/County: Northumberland County

Use(s): Aquatic Life

Causes(s)/VA Category: Estuarine Bioassessments/5A

Cause Description: During the 2020 cycle, upper Cockrell Creek was impaired of the Aquatic Life Use due to an altered benthic community at 2018 Coastal 2000 station 7-COC002.14.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_COC01A98 / Cockrell Creek / As described in VDH-DSS Shellfish Condemnation 012-002B, 8/15/2020. CB5MH	5A	Estuarine Bioassessments	2020	L	0.612

Cockrell Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Estuarine Bioassessments - Total Impaired Size by Water Type:	0.612		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-12-BAC Mill Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 123, 6/2/1997

Cause City/County: Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The upper portion of Mill Creek was assessed as impaired of the Recreation Use during the 2010 cycle due to an enterococci violation rate of 5/12 at 7-MIL004.00, which is located at the end of Rt. 830.

During the 2012 cycle, additional sampling at 7-MIL005.19 confirmed the impairment (5/12).

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Because bacteria reductions are already required due to the Mill Creek Shellfish TMDL, the enterococci impairment is considered nested (Category 4A).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_MIL01A98 / Mill Creek / Described in the condemnation notice 123, 6/2/1997. CB5MH	4A	Enterococcus	2010	L	0.241

Mill Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.241		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-12-SF Mill Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 123, 6/2/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 014-123A, 6/15/2020

The upper portion of Mill Creek was included on the 1998 303(d) list due to shellfish condemnation 123, 6/2/1997. The segment has expanded since then, however only the original portion was included in the TMDL for Mill Creek, which was approved by the EPA on 8/22/2007 and by the SWCB on 7/31/2008. The original upstream segment is considered Category 4A; the fact sheet for the downstream portion is C01E-12-SF2.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_MIL01A98 / Mill Creek / Described in the condemnation notice 123, 6/2/1997. CB5MH	4A	Fecal Coliform	1998	L	0.241

Mill Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.241		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-12-SF2 Mill Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation Number 014-123A, 6/15/2020 not included in 123, 6/2/1997.

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 014-123A, 6/15/2020

The upper portion of Mill Creek was included on the 1998 303(d) list due to shellfish condemnation 123, 6/2/1997. The segment has since expanded; however, only the original portion was included in the TMDL for Mill Creek, which was approved by the EPA on 8/22/2007 and by the SWCB on 7/31/2008. As the segment first expanded during the 2004 cycle, the TMDL is due in 2016. The impairment shortened slightly in the 2020 cycle.

The impairment is nested within the upstream Mill Creek Shellfish TMDL and is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_MIL02A08 / Mill Creek / Portion of VDH Condemnation 014-123A, 6/15/2020 not included in the notice 123, 6/2/1997. CB5MH	4A	Fecal Coliform	2004	L	0.027

Mill Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.027		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-14-SF Gaskin Pond

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 011-122A, 7/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 011-122A, 8/15/2020

Gaskin Pond is considered nested in the TMDL for the neighboring Owens Pond shellfish condemnation. The TMDL was approved by the EPA on 6/19/2009 and by the SWCB on 11/14/2009.

The size of the condemnation has varied. In the 2022 cycle, the condemnation shrank again and a portion is now seasonally condemned and will be partially delisted.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_GSK01A10 / Gaskin Pond / As described in VDH-DSS condemnation 011-122A, 8/15/2020. Segment split in the 2022 cycle.	4A	Fecal Coliform	2010	L	0.076

Gaskin Pond

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.076		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-15-SF** **Dividing Creek, Lawrence Creek, Natty Point Cove, UT to Dividing Creek**

Cause Location: Described in VDH Shellfish Condemnation Number 22A, 2/27/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnations 015-022A, -B, and -D, 6/15/2020

The upstream section of Dividing Creek was included on the 1998 303(d) list for the Shellfish Use due to VDH condemnation 22A, 2/27/1997. The bacterial TMDL was completed for the 1998 impairment.

The condemnations have varied in size throughout the cycles. In the 2022 cycle, the mainstem condemnation expanded and merged with Natty Point Cove. Also, the UT (015-022G, 5/3/2018) was re-opened and partially delisted.

The open area that is within the TMDL study area is considered Category 2C. The closed areas remain Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_DIV01A98 / Dividing Creek / Described in VDH-DSS condemnation 015-022A, 6/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Fecal Coliform	1998	L	0.091
VAP-C01E_LRC01A12 / Lawrence Cove / Described in the VDH-DSS condemnation 015-022B, 6/15/2020. CB5MH	4A	Fecal Coliform	1998	L	0.087
VAP-C01E_NPC01A16 / Natty Point Cove / Described in VDH-DSS condemnation 015-022C, 5/3/2018. CB5MH	4A	Fecal Coliform	1998	L	0.018
VAP-C01E_XES01A12 / XES - Dividing Creek, UT / Described in the VDH-DSS condemnation 015-022D, 6/15/2020. CB5MH	4A	Fecal Coliform	1998	L	0.029

Dividing Creek, Lawrence Creek, Natty Point Cove, UT to Dividing Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.224		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-17-PCB Chesapeake Bay and Tidal Tributaries

Cause Location: Chesapeake Bay mainstem and its small coastal tidal tributaries

Cause City/County: Accomack County; Chesapeake Bay - County Not Applicable; Gloucester County; Lancaster County; Mathews County; Middlesex County; Norfolk; Northampton County; Northumberland County; Poquoson City; Virginia Beach; York County

Use(s): Fish Consumption

Causes(s)/VA Category: PCBs in Fish Tissue/5A

Cause Description: The Chesapeake Bay and its small coastal tidal tributaries are included under the 12/13/2004 VDH Fish Consumption Advisories for PCBs. No more than two meals/month are recommended of anadromous (coastal) striped bass.

Also, VDH issued additional fish consumption advisory for PCBs in the Mobjack Bay and its tributaries, particularly the East, West, and Ware Rivers (on 12/13/2004) and in the Piankatank River from Rt. 17 to Deep Point Boat Landing (10/7/2009). No more than two meals/month of gizzard shad are recommended.

The advisories are based on the results of DEQ's fish tissue monitoring program, which show elevated PCBs levels in several monitoring sites within the basin, including:

7-COC000.40 in Cockrell Creek 7-DYM000.00 in Dymmer Creek 7-DRN001.43 in Dragon Swamp 7-PNK019.85 and 7-PNK015.49 in the Piankatank River 7-MLF002.45 in Milford Haven 7-WIN000.88 in Winter Harbor 7-EST002.65 in the East River 7-WAR005.77 in the Ware River

Note: there were previous exceedances at 7-GWR007.97 in the Great Wicomico River, 7-IND001.80 in Indian Creek, and 7-NOR003.65 in the North River. Re-sampling at those stations was acceptable in the 2022 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-C10E-POC / Chesapeake Bay - VA portion of CBP segment POCMH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment POCMH, located in the mesohaline area of Pocomoke sound. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	41.048
VACB-C10E-TAN / Chesapeake Bay - VA portion of CBP Segment TANMH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment TANMH, located in the northern part of the Virginia mainstem Bay around Tangier Sound. HUC: 02080101	5A	PCBs in Fish Tissue	2006	L	118.980
VACB-C10E_POC01B18 / Pocomoke Sound / Pocomoke Sound - VDH DSS condemnation #075-033 (Restricted)	5A	PCBs in Fish Tissue	2006	L	2.480
VACB-C10E_POC01C20 / Pocomoke Sound / Pocomoke Sound - VDH DSS #075-033 (Open)	5A	PCBs in Fish Tissue	2006	L	3.347
VACB-C10E_TNN01A06 / Tangier North Channel and Adjacent Waters, DSS Area A and B. / Waters surrounding Tangier Island. Portion of CBP segment TANMH. DSS (ADMINISTRATIVE) shellfish condemnation # 078-086, section A effective 11/6/2013	5A	PCBs in Fish Tissue	2006	L	1.366

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-C10E_TNN01B06 / Tangier North Channel and Adjacent Waters, DSS Area C. / Waters surrounding Tangier Island. Portion of CBP segment TANMH. DSS (ADMINISTRATIVE) shellfish condemnation # 078-086, section B effective 11/6/2013	5A	PCBs in Fish Tissue	2006	L	0.039
VACB-C10E_TNN01C16 / Tangier North Channel and Adjacent Waters, Open waters / Waters surrounding Tangier Island. Portion of CBP segment TANMH. Open waters of the DSS cond # 078-86 eff 11/06/2013. Split from VACB-C10E_TNN01A06 (2016).	5A	PCBs in Fish Tissue	2006	L	0.196
VACB-C10E_TNN01D18 / Tyler Creek, Shanks Creek, Tangier Sound / Tyler Creek, Shanks Creek, Tangier Sound - Portion of CBP segment TANMH. Restricted waters of the DSS cond # 074-226 eff 2/26/2015. Split from VACB-C10E-TAN.	5A	PCBs in Fish Tissue	2006	L	2.169
VACB-R01E-04CE / Chesapeake Bay - Cape Charles BSS #089-011, Section A. / Va Dept of Health Shellfish (administrative) condemnation #089-011, Opposite Cape Charles City, Section A. HUC: 02080101.[effective 2005-3-08]	5A	PCBs in Fish Tissue	2006	L	0.312
VACB-R01E-04DE / Chesapeake Bay - S. Thimble Island BSS Condemnation #163 / Va Dept of Health Shellfish zone #163. Open to shellfish harvesting as of 4/25/2007. S. Thimble Island. HUC: 02080101	5A	PCBs in Fish Tissue	2006	L	0.027
VACB-R01E-04EE / Chesapeake Bay - Off Little Creek BSS #068-017, Section C. / Va Dept of Health Shellfish (administrative) closure #068-017, A portion of section C. Off Little Creek. HUC: 02080101.[effective 2005-3-08]	5A	PCBs in Fish Tissue	2006	L	0.540
VACB-R01E-04GE / Chesapeake Bay - Off Little Creek BSS #068-017, Areas A & B / Va Dept of Health Shellfish (administrative) closure #068-017, Off Little Creek, Sections A and B. HUC: 02080101.[effective 2005-3-08]	5A	PCBs in Fish Tissue	2006	L	1.355
VACB-R01E-CB5 / Chesapeake Bay - VA portion of CBP Segment CB5MH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment CB5MH, located in the northern part of the Virginia mainstem Bay from the mouth of the Rappahannock River and northward. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	185.846
VACB-R01E-CB6N / Chesapeake Bay - Northern portion of CBP Segment CB6PH / This assessment unit is the mainstem northern portion of Chesapeake Bay Program segment CB6PH, located in the northeastern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	127.195

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-CB6S / Chesapeake Bay - Southern portion of CBP Segment CB6PH / This assessment unit is the mainstem southern portion of Chesapeake Bay Program segment CB6PH, located in the northeastern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	160.307
VACB-R01E-CB7N / Chesapeake Bay - Northern portion of CBP Segment CB7PH / This assessment unit is the mainstem northern portion of Chesapeake Bay Program segment CB7PH, located in the northwestern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	168.603
VACB-R01E-CB7S / Chesapeake Bay - Southern portion of CBP Segment CB7PH / This assessment unit is the mainstem southern portion of Chesapeake Bay Program segment CB7PH, located in the southwestern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	372.814
VACB-R01E-CB8 / Chesapeake Bay - CBP Segment CB8PH / This assessment unit is the mainstem portion of Chesapeake Bay Program segment CB8PH, located in the Virginia Chesapeake Bay between the mouths of the James River and mouth of Chesapeake Bay. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	141.796
VACB-R01E-MOB / Chesapeake Bay - CBP Segment MOBPH / This assessment unit is the mainstem Chesapeake Bay and Mobjack Bay portions of Chesapeake Bay Program segment MOBPH, located off the mouth of the York River including Mobjack Bay. HUC: 02080101.	5A	PCBs in Fish Tissue	2006	L	92.951
VACB-R01E_CB7N01A20 / Chesapeake Bay - Northern portion of CBP Segment CB7PH / Chesapeake Bay - VDH DSS condemnation #079-112 (Open)	5A	PCBs in Fish Tissue	2006	L	0.023
VAP-C01E_ANT01A98 / Antipoison Creek / Described in the condemnation notice 017-188A, 11/15/2020. Expanded in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.083
VAP-C01E_ANT01B08 / Antipoison Creek, UT / Described in the condemnation notice 017-188C, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.005
VAP-C01E_ANT01C08 / Antipoison Creek, UT / Described in VDH-DSS condemnation notice 017-188B, 11/15/2020. Size increased in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.013

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_ANT02A08 / Antipoison Creek / Downstream of condemnation notice 017-188, 11/15/2020 not otherwise segmented. Merged in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.325
VAP-C01E_ASH01A10 / Ashleys Cove / Described in VDH-DSS condemnation 016-024D, 1/28/2005 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.056
VAP-C01E_BAI01A16 / Bailey Prong / Described in VDH-DSS condemnation 013-220H, 4/1/2014. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.052
VAP-C01E_BAL01A02 / Ball Creek / Portion of VDH condemnation notice 014-124B, 6/2/1997 open in 014-124, 6/15/2020 Size reduced in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C01E_BAL01B20 / Ball Creek / Described in VDH condemnation notice 014-124S152, 6/15/2020. Size increased in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.039
VAP-C01E_BAL02A02 / Ball Creek / From VDH-DSS Condemnation 124B, 6/2/1997, downstream to its mouth. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.128
VAP-C01E_BAR01A98 / Barrett Creek / Described in the condemnation notice, 013-08S80, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.066
VAP-C01E_BAR02A08 / Barrett Creek, UT / Described in VDH-DSS SFC 013-08S81, 6/15/2020 Size decreased in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.007
VAP-C01E_BEL01A08 / Bells Creek / Described in VDH condemnation 016-057B, 12/13/2006. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.042
VAP-C01E_BLA01A22 / Blackwells Creek / Described in VDH-DSS Condemnation 013-08D, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.045
VAP-C01E_BLA01B22 / Blackwells Creek / Described in VDH-DSS Condemnation 013-089S181, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C01E_BLS01A02 / Balls Creek / Described in VDH-DSS condemnation notice 89B, 5/28/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.064

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BLS02A08 / Balls Creek / Portion of condemnation notice 013-089F, 6/15/2020 not included in 89B, 5/28/1997. Size reduced in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.042
VAP-C01E_BLS03A22 / Balls Creek / Described in VDH-DSS Condemnation 013-089S179, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.022
VAP-C01E_BMC01A04 / Betts Mill Creek / Described in the VDH Shellfish Condemnation 013-089B, 6/15/2020. Split in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.048
VAP-C01E_BMC01B22 / Betts Mill Creek / Described in VDH Shellfish Condemnation 013-089S181, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.034
VAP-C01E_BMS01A12 / Bush Mill Stream / Tidal limit to mouth at Great Wicomico River CB5MH	5A	PCBs in Fish Tissue	2006	L	0.095
VAP-C01E_BRS01A08 / Barnes Creek / Portion of VDH-DSS condemnation 016-057C, 12/13/2006 open in 016-057, 11/15/2020. Split in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.194
VAP-C01E_BRS01B20 / Barnes Creek / Portion of VDH-DSS condemnation 12/13/2006 open on 016-057, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.023
VAP-C01E_BRS01C20 / Barnes Creek / Described in VDH-DSS condemnation 016-057B, 11/15/2020. Shrank in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.062
VAP-C01E_BRS01D22 / Barnes Creek / Portion of VDH-DSS condemnation 016-057C, 12/13/2006 open in 016-057, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.031
VAP-C01E_CHA01A08 / Dymmer Creek, UT / Described in condemnation notice 016-024B, 12/30/2015. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.018
VAP-C01E_CHA01B12 / Chases Cove / Described in VDH-DSS condemnation notice 016-024D, 12/30/2015 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.023
VAP-C01E_CLE01A98 / Cloverdale Creek / Described in the condemnation notice 014-124A, 6/2/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.020

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_CLE02A06 / Cloverdale Creek / Downstream of condemnation notice 014-124A, 6/2/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.056
VAP-C01E_COC01A98 / Cockrell Creek / As described in VDH-DSS Shellfish Condemnation 012-002B, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.612
VAP-C01E_COC03A98 / Cockrell Creek / Described in the condemnation notice. VDH-DSS SFC 012-002C, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.035
VAP-C01E_COC04A20 / Cockrell Creek / Portion of VDH-DSS Condemnation Notice 012-002A, 9/22/2005 open 8/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.202
VAP-C01E_COC04B10 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002A, 8/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.198
VAP-C01E_COC04C22 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002S194, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.070
VAP-C01E_COC05A06 / Cockrell Creek / From VDH-DSS SFC 012-002A, 9/22/2005 downstream to mouth at Fleet Point. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.152
VAP-C01E_COL01A08 / Coles Creek / Described in VDH-DSS SFC 013-089C, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.019
VAP-C01E_CRN01A06 / Cranes Creek / Described in VDH-DSS Shellfish Condemnation 013-220C, 5/1/2018 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.019
VAP-C01E_CRN01B06 / Cranes Creek / Described in VDH-DSS Shellfish Condemnation 013-220M1, 8/9/2011 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C01E_DIV01A98 / Dividing Creek / Described in VDH-DSS condemnation 015-022A, 6/15/2020. Size increased in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.091
VAP-C01E_DIV01B12 / Dividing Creek / Portion of VDH-DSS condemnation 022, 2/27/1997 open on 015-022, 6/15/2020. Size reduced in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.138

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_DIV01C14 / Dividing Creek, UT / VDH-DSS condemnation 015-022G, 5/3/2018 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.009
VAP-C01E_DIV03A00 / Dividing Creek / From the downstream limit of VDH-DSS SFC 022, 2/27/1997, to the mouth at Chesapeake Bay. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.816
VAP-C01E_DVN01A04 / Davenport Creek / Described in VDH Shellfish Condemnation 017-188A, 5/12/2012. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.019
VAP-C01E_DYM01A98 / Dymer Creek / Described in VDH-DSS condemnation notice 016-024A, 11/15/2020 and portion of 016-024D, 11/15/2020 within mainstem Dymer Creek. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.190
VAP-C01E_DYM01B14 / Dymer Creek / Portion of VDH-DSS SFC 016-024A 1/28/2005 not condemned on 11/15/2020. Expanded in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.110
VAP-C01E_DYM02A00 / Dymer Creek / Dymer Creek downstream of VDH-DSS SFC 016-024A 1/28/2005 unless otherwise segmented. Size increased in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.665
VAP-C01E_DYM02B20 / Georges Cove / Portion of 016-024S114, 11/15/2020 not located within VDH-DSS SFC 016-024A or -E, 1/28/2005. Size reduced in the 2022 cycle and is now limited to Georges Cove. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.020
VAP-C01E_FLB01A00 / Fleets Bay / Fleets Bay north of Bluff Point at Barnes Creek south to Fleets Island. CB5MH Size adjusted in 2006 cycle.	5A	PCBs in Fish Tissue	2006	L	5.177
VAP-C01E_GEO01A98 / Georges Cove / Portion of condemnation notice 016-024E, 1/28/2005 not closed 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C01E_GEO01B20 / Georges Cove / Described in condemnation notice 016-024B, 1/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.018
VAP-C01E_GOU01A06 / Gougher Creek / Described in VDH-DSS Shellfish Condemnation 013-220S84, 6/15/2020 Size reduced in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.036

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_GSK01A10 / Gaskin Pond / As described in VDH-DSS condemnation 011-122A, 8/15/2020. Segment split in the 2022 cycle.	5A	PCBs in Fish Tissue	2006	L	0.076
VAP-C01E_GSK01B22 / Gaskin Pond / As described in VDH-DSS condemnation 011-122S189, 8/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.042
VAP-C01E_GWR01A98 / Great Wicomico River / Portion of condemnation notice 013-089A, 6/15/2020 which is not administratively closed, excluding Head River Branch and Bush Mill Stream CB5MH	5A	PCBs in Fish Tissue	2006	L	0.232
VAP-C01E_GWR01B08 / Great Wicomico River / Portion of VDH-DSS condemnation 013-089S182, 6/15/2020 not included in 089A, 5/28/1997. Split in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.070
VAP-C01E_GWR01C10 / Great Wicomico River / Portion of condemnation notice 089A, 5/28/1997 which is administratively closed CB5MH	5A	PCBs in Fish Tissue	2006	L	0.058
VAP-C01E_GWR01D22 / Great Wicomico River / Portion of condemnation notice 089A, 5/28/1997 which is within 013-089S182, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.036
VAP-C01E_GWR02A00 / Great Wicomico River / From VDH-DSS SFC 013-089S182, 6/15/2020 downstream to Rogue Point unless otherwise segmented. Size reduced in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	1.883
VAP-C01E_GWR02B06 / Great Wicomico River / As described in VDH-DSS Shellfish Condemnation 013-089M2, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.017
VAP-C01E_GWR02C06 / Great Wicomico River / As described in VDH-DSS Shellfish Condemnation 013-089M1, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.008
VAP-C01E_GWR02D12 / Great Wicomico River / VDH-DSS Condemnation 013-089M3, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.008
VAP-C01E_GWR02E16 / Great Wicomico River, UT / Described in VDH-DSS condemnation 013-089S82, 5/1/2018 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.033

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_GWR03A06 / Great Wicomico River / From Rogue Point (GWR02A00) downstream to Ingram Bay at Dameron Marsh. CB5MH	5A	PCBs in Fish Tissue	2006	L	5.651
VAP-C01E_GWR03B16 / Great Wicomico River / Described in VDH-DSS condemnation 013-220D, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.004
VAP-C01E_HAP01B10 / Harpers Creek / Described in VDH-DSS Condemnation 017-188E, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.022
VAP-C01E_HAV01A08 / Harveys Creek / Described in VDH Shellfish Condemnation 014-123C, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.045
VAP-C01E_HEN01A00 / Henrys Creek / Described in VDH condemnation 016-057C, 11/15/2020. Expanded in the 2020 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.041
VAP-C01E_HEN01B14 / Henrys Creek / Portion of VDH condemnation 016-057C, 1/28/2005 open on 11/15/2020. Merged in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.030
VAP-C01E_HEN02A14 / Henrys Creek / Downstream of 016-057C, 1/28/2005 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.103
VAP-C01E_HHB01A98 / Horn Harbor / Described in the condemnation notice 013-089S183, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.071
VAP-C01E_HNT01A98 / Hunts Cove / Described in the condemnation notice 016-024B, 1/28/2005. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.040
VAP-C01E_HRB01A12 / Head River Branch / Tidal limit to mouth at Bush Mill Stream. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.020
VAP-C01E_IND01A98 / Indian Creek / Portion of VDH-DSS condemnation notice 016-057A, 11/15/2020 that is not administratively condemned. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.331
VAP-C01E_IND01B10 / Indian Creek / Administratively condemned portion of VDH-DSS condemnation notice 016-057A, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.037
VAP-C01E_IND01C10 / Indian Creek / Portion of condemnation notice 016-057A, 12/13/2006 seasonally condemned on 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.042

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_IND02A98 / Indian Creek / Described in the condemnation notice 016-057E, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.015
VAP-C01E_IND03A00 / Indian Creek / Indian Creek from end of condemnation 016-057A, 12/13/2006, downstream to mouth unless otherwise segmented. Expanded in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.595
VAP-C01E_IND03B06 / Indian Creek / Portion of VDH-DSS Seasonal Shellfish Condemnation 016-057S110, 11/15/2020 not addressed in the TMDL. Shortened and split in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.005
VAP-C01E_IND03C22 / Indian Creek / Described in VDH-DSS Condemnation 016-057M1, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.017
VAP-C01E_JAR01A02 / Jarvis Creek, UT / Described in VDH-DSS condemnation notice 015-022H, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.026
VAP-C01E_JAR01B08 / Jarvis Creek / As described in VDH-DSS condemnation 015-022C, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C01E_JAR02A10 / Jarvis Creek / Downstream of VDH condemnations CB5MH	5A	PCBs in Fish Tissue	2006	L	0.200
VAP-C01E_JOH01A06 / Johnson Creek / As described in VDH-DSS SFC 016-024S112, 11/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.029
VAP-C01E_LEE01A02 / Lees Cove / As described in the condemnation notice 016-024C, 1/28/2005 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.015
VAP-C01E_LEE02A12 / Lees Cove / Portion of VDH-DSS SFC 016-024C, 11/15/2020 not impaired in 016-024C, 1/28/2005. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C01E_LOC01A08 / Long Creek / Described in VDH condemnation 016-057D, 12/13/2006. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.017
VAP-C01E_LRC01A12 / Lawrence Cove / Described in the VDH-DSS condemnation 015-022B, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.087
VAP-C01E_LTB01A02 / Little Bay / Little Bay CB5MH	5A	PCBs in Fish Tissue	2006	L	1.147

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_LTM01A98 / Little Taskmakers Creek / Described in the condemnation notice 011-190S192, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.038
VAP-C01E_LTM01B22 / Little Taskmakers Creek / Portion of VDH condemnation notice 190, 4/13/1993 that is not included in 011-190, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.011
VAP-C01E_MIL01A98 / Mill Creek / Described in the condemnation notice 123, 6/2/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.241
VAP-C01E_MIL01B06 / Mill Creek / Mouth of Mill Creek at Ingram Bay CB5MH	5A	PCBs in Fish Tissue	2006	L	1.173
VAP-C01E_MIL02A08 / Mill Creek / Portion of VDH Condemnation 014-123A, 6/15/2020 not included in the notice 123, 6/2/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.027
VAP-C01E_MIL03A08 / Mill Creek / Middle Mill Creek downstream of condemnations to Ingrams Bay. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.146
VAP-C01E_MIL03B22 / Mill Creek / Described in VDH-DSS Condemnation 014-123S150, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.318
VAP-C01E_NPC01A16 / Natty Point Cove / Described in VDH-DSS condemnation 015-022C, 5/3/2018. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.018
VAP-C01E_OHC01A08 / Old House Cove / Described in VDH-DSS SFC 015-022F, 5/9/2016. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.024
VAP-C01E_OWP01A98 / Owens Pond / Downstream of VDH-DSS condemnation 011-122, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.076
VAP-C01E_OWP02B12 / Owens Pond / Described in VDH-DSS condemnation 011-122S191, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.037
VAP-C01E_OWP02C12 / Owens Pond / VDH-DSS condemnation 011-122S190, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.073
VAP-C01E_OYS01A08 / Oyster Creek / Described in VDH condemnation 018-053A, 1/4/2005 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.103
VAP-C01E_PEN01A12 / Penny Creek / Described in VDH-DSS Condemnation 013-220S85, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.009

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_PNT02A02 / Prentice Creek / Downstream of VDH-DSS condemnation 015-022, 6/15/2020 to its mouth. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.156
VAP-C01E_PNT02B10 / Prentice Creek / Portion of VDH-DSS condemnation 015-022E, 6/15/2020 that was open on 022, 2/27/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.014
VAP-C01E_PNT02C22 / Prentice Creek, UT / Described in VDH-DSS condemnation 015-022F, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.004
VAP-C01E_PNT03A02 / Prentice Creek / Described in VDH-DSS condemnation notice 022D, 2/27/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.015
VAP-C01E_REA01A10 / Reason Creek / Described in VDH-DSS condemnation 013-220C, 8/23/2010 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.025
VAP-C01E_TBS01A98 / Tabbs Creek / Described in VDH-DSS condemnation notice 016-133A, 11/15/2020 Size reduced in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.180
VAP-C01E_TBS01B10 / Tabbs Creek / Portion of VDH-DSS condemnation notice 016-133A, 12/13/2006 seasonally condemned in 016-133, 11/15/2020. Split in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.025
VAP-C01E_TBS01C22 / Tabbs Creek / Portion of the condemnation notice 016-133A, 12/13/2006 open on 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.029
VAP-C01E_TBS02A00 / Tabbs Creek / Tabbs Creek downstream of VDH-DSS Condemnation 016-133, 12/13/2006. Merged in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.175
VAP-C01E_TIP01A98 / Tipers Creek / Described in VDH-DSS condemnation notice 013-089E, 6/15/2020 Split in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.052
VAP-C01E_TIP01B22 / Tipers Creek / Portion of VDH-DSS condemnation notice 89C, 5/28/1997 included in 013-089S178, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.031
VAP-C01E_TIP02A08 / Tipers Creek / Portion of condemnation notice 013-089S178, 6/15/2020 not included in 89C, 5/28/1997 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.013

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_TOW01A06 / Towles Creek / Described in VDH-DSS Shellfish Condemnation 014-123B, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.027
VAP-C01E_TSK01A14 / Taskmakers Creek / As described in VDH-DSS condemnation 011-190S193, 8/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.021
VAP-C01E_WCO01A98 / Warehouse Creek / Described in the condemnation notice 89E, 5/28/1997 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.069
VAP-C01E_WCO02A08 / Warehouse Creek / Portion of VDH condemnation notice 013-220A, 6/15/2020 not included in 89E, 5/28/1997 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.008
VAP-C01E_WHY01A98 / Whays Creek / Described in VDH-DSS condemnation notice 013-220B, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.028
VAP-C01E_WHY01B22 / Whays Creek / Portion of VDH-DSS condemnation notice 089D, 4/3/2002 open in 013-220, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.013
VAP-C01E_WHY03A10 / Whays Creek / Downstream of condemnation notice 013-089D, 4/3/2002. Merged in the 2022 cycle. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.099
VAP-C01E_XDL01A02 / XDL - Chesapeake Bay, UT (aka Big Fleets Pond) / As described in condemnation notice 011-190A, 8/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.018
VAP-C01E_XDZ01A10 / XDZ - Mill Creek, UT (Gascony Cove) / Tidal limit to mouth at Mill Creek	5A	PCBs in Fish Tissue	2006	L	0.028
VAP-C01E_XEO01A10 / XEO - Reason Creek, UT / Described in VDH-DSS Condemnation 013-220C, 6/15/2020 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.001
VAP-C01E_XES01A12 / XES - Dividing Creek, UT / Described in the VDH-DSS condemnation 015-022D, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.029
VAP-C01E_XEU01A02 / XEU - Prentice Creek, UT / Described in VDH-DSS condemnation notice 022C, 2/27/1997. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.011

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_XEV01A12 / XEV - Mill Creek, UT / Described in VDH-DSS condemnation 014-123C, 5/9/2016. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.007
VAP-C01E_XEW01A14 / XEW - Chesapeake Bay, UT / Tidal limit to mouth	5A	PCBs in Fish Tissue	2006	L	0.022
VAP-C01E_XFC02C12 / XFC - Antipoison Creek, UT / Described in VDH-DSS condemnation 017-188D, 11/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.002
VAP-C01E_XFJ01A22 / XFJ - Mill Creek, UT (Guarding Cove) / Described in VDH-DSS Condemnation 014-123S174, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.059
VAP-C01E_XUC01A98 / XUC - Dividing Creek, UT / Described in the condemnation notice 015-022G, 6/15/2020. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.013
VAP-C01E_ZZZ01A22 / Unsegmented estuaries in C01 / Unsegmented estuaries in CB02 CB5MH	5A	PCBs in Fish Tissue	2006	L	0.371
VAP-C01E_ZZZ01B14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB03. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.058
VAP-C01E_ZZZ01C14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB04. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.764
VAP-C01E_ZZZ01D14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB05. CB5MH	5A	PCBs in Fish Tissue	2006	L	0.065
VAP-C02E_DRN01A02 / Dragon Swamp / The tidal portion of Dragon Swamp to its mouth at the Piankatank River. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.823
VAP-C03E_COB02B20 / Cobbs Creek / Described in VDH-DSS condemnation 034-126S70, 12/15/2020. Expanded slightly in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.043
VAP-C03E_COB02C10 / Cobbs Creek / Described in VDH-DSS condemnation 034-126B, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.049
VAP-C03E_COR01A08 / Cores Creek / Described in VDH-DSS condemnation 034-208D, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.018
VAP-C03E_DAN01A08 / Dancing Creek / Described in VDH-DSS condemnation 025-076C, 2/15/2020 PIAMH	5A	PCBs in Fish Tissue	2006	L	0.034

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_FER01A98 / Ferry Creek / Described in VDH-DSS condemnation notice 035-076B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C03E_FER01B20 / Ferry Creek / Portion of Ferry Creek that is not closed for oyster harvest. Expanded in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.115
VAP-C03E_FRE01A02 / Frenchs Creek / As described in the condemnation notice 035-076D, 2/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C03E_HEA01A02 / Healy Creek / Described in VDH-DSS Shellfish Condemnation Notice 034-208A, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.047
VAP-C03E_HEA01B20 / Healy Creek / Described in VDH-DSS Shellfish Condemnation Notice 034-208S67, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.024
VAP-C03E_HRP01A98 / Harper Creek / Described in the condemnation notice 076B, 6/10/1997. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.062
VAP-C03E_JCK01A98 / Jackson Creek / Described in VDH-DSS condemnation notice 84A, 11/1/1996. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.019
VAP-C03E_JCK01B08 / Jackson Creek / Described in VDH-DSS condemnation notice 084B, 11/1/1996. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.015
VAP-C03E_JCK01C08 / Jackson Creek / Mainstem portion of condemnation notice 033-084A, 12/11/2018 not included in 84A, 11/1/1996. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.030
VAP-C03E_JCK01C14 / Jackson Creek, UT / Described in VDH-DSS condemnation notice 033-084B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.014
VAP-C03E_JCK02A20 / Jackson Creek / Portion of VDH-DSS condemnation notice 033-084D, 12/11/2018 not included in 084B, 11/1/1996. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.032
VAP-C03E_JCK02B16 / Jackson Creek / Described in VDH-DSS condemnation notice 033-084E, 11/12/2014. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.011

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_JCK02C10 / Jackson Creek / Portion of VDH-DSS condemnation notice 033-084M1, 2/15/2020 not included in 033-084A, -B, or -D, 12/11/2018. Segment expanded in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.171
VAP-C03E_JCK03C10 / Jackson Creek / Described in VDH-DSS condemnation notice 033-084B, 12/11/2018. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.013
VAP-C03E_MRE01A02 / Moore Creek / As described in the condemnation notice 034-208C, 12/15/2020. Split in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.034
VAP-C03E_MRE01B22 / Moore Creek / As described in the condemnation notice 034-208S69, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.035
VAP-C03E_PNK01A02 / Piankatank River / Downstream limit of VDH-DSS condemnation SFC 035-076A, 6/10/1997 to Deep Point Boat Landing. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.558
VAP-C03E_PNK01A98 / Piankatank River / Watershed limit (start of Piankatank River) downstream to limit of SFC 035-076A, 6/10/1997. PIAMH	5A	PCBs in Fish Tissue	2006	L	1.280
VAP-C03E_PNK02A00 / Piankatank River / Mainstem Piankatank from end of 035-076S65, 2/15/2020 downstream to PNK03A00, excluding the Berkley Island area. Size reduced in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	3.355
VAP-C03E_PNK02B08 / Piankatank River / Bend around Berkley Island PIAMH	5A	PCBs in Fish Tissue	2006	L	0.785
VAP-C03E_PNK02C20 / Piankatank River / Mainstem Piankatank from Deep Point Landing downstream to the boundary of 035-076S65, 2/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	1.210
VAP-C03E_PNK03A00 / Piankatank River / One-half mile radius around monitoring station 7-PNK005.36 on the Piankatank River between Pond Point and Iron Point. PIAMH	5A	PCBs in Fish Tissue	2006	L	1.167
VAP-C03E_PNK04A00 / Piankatank River / Mainstem Piankatank River from PNK03A00 downstream to the point at Fishing Bay. PIAMH	5A	PCBs in Fish Tissue	2006	L	3.528

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_PNK04B06 / Piankatank River / As described in VDH-DSS SFC 034-208M1, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.040
VAP-C03E_PNK04C06 / Piankatank River - Fishing Bay / As described in VDH-DSS SFC 034-208 M2, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.085
VAP-C03E_PNK04D08 / Porpoise Cove / As described in VDH-DSS SFC 034-208B, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.011
VAP-C03E_PNK05A02 / Piankatank River / Piankatank River downstream of Fishing Bay at Stove Point to mouth at Chesapeake Bay PIAMH	5A	PCBs in Fish Tissue	2006	L	4.949
VAP-C03E_PNK07B08 / Piankatank River, UT / Described in VDH-DSS SFC 034-126S71, 12/28/2018. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.007
VAP-C03E_PNK08B08 / Piankatank River, UT / Described in VDH-DSS SFC 034-126S72, 12/28/2018 PIAMH	5A	PCBs in Fish Tissue	2006	L	0.003
VAP-C03E_WLT01A98 / Wilton Creek / Described in the condemnation notice 034-126A, 12/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.111
VAP-C03E_WLT01B20 / Wilton Creek / Portion of VDH-DSS condemnation 126, 3/2/1993 that is not condemned. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.023
VAP-C03E_ZZZ01B14 / Unsegmented estuaries in C03 / Unsegmented portion of watershed CB11. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.146
VAP-C04E_BEV01A08 / Belleville Creek / Described in VDH Shellfish Condemnation 042-157S162, 7/15/2020. Expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.053
VAP-C04E_BKA01A98 / Back Creek / Described in VDH condemnation notice 042-157C, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.056
VAP-C04E_BKA01C20 / Back Creek / Portion of VDH condemnation notice 157C, 6/3/1997 not condemned on 7/15/2020 (seasonally condemned). Merged in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.029
VAP-C04E_BLL01A16 / Billups Creek / Portion of VDH-DSS condemnation notice 204, 4/4/1997 seasonally condemned on 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.002

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BLL01A98 / Billups Creek / Portion of VDH-DSS condemnation notice 204, 4/4/1997 closed on 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.044
VAP-C04E_BLL02A16 / Billups Creek / Billups Creek not otherwise segmented. Size reduced in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.185
VAP-C04E_BLL02B20 / Billups Creek / Portion of VDH-DSS condemnation 037-061B, 4/15/2020 open on 4/4/1997. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.006
VAP-C04E_BLL02C12 / Billups Creek / Portion of VDH-DSS condemnation 037-061S129, 4/15/2020 open in 204, 4/4/1997. Size increased in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.137
VAP-C04E_BLW01A98 / Blackwater Creek / Described in the condemnation notice 042-131A, 6/3/1997. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.101
VAP-C04E_BLW02A22 / Blackwater Creek / Portion of VDH-DSS Condemnation 042-131S161, 7/15/2020 not included in 131A, 6/3/1997. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.008
VAP-C04E_BOR01A18 / Borum Creek / Described in VDH-DSS condemnation 039-026C, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.028
VAP-C04E_BRN01A04 / Barn Creek / Described in VDH-DSS condemnation notice 036-197C, 3/15/2019. Split in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.021
VAP-C04E_BRN02A22 / Barn Creek / Described in VDH-DSS condemnation notice 036-197S126, 3/15/2019. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.026
VAP-C04E_BUR01A00 / Burke Mill Stream / From extent of tide to North River MOBPH	5A	PCBs in Fish Tissue	2010	L	0.025
VAP-C04E_DAV01A98 / Davis Creek / Described in VDH-DSS condemnation notice 042-131S22, 7/15/2020. Merged and expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.072
VAP-C04E_DOC01A98 / Doctors Creek / Described in VDH condemnation notice 26B, 2/25/1997. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.015

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_DVS01A98 / Davis Creek / Described in VDH-DSS condemnation notice 85, 9/22/1997. Merged in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C04E_DVS01B08 / Davis Creek / Described in the condemnation notice 040-085M2, 9/21/2010. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.011
VAP-C04E_DVS03A12 / Davis Creek / Described in VDH-DSS condemnation 040-085A, 9/24/2018. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.013
VAP-C04E_DYE01A08 / Dyer Creek / Described in VDH-DSS Condemnation 039-100S76, 4/15/2020. Expanded in the 2022 cycle. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.052
VAP-C04E_DYE01B22 / Dyer Creek, UT / Described in VDH-DSS Condemnation 039-100S123, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.014
VAP-C04E_DYE02A04 / Dyer Creek / Downstream limit of condemnation to mouth. Shrank and split in the 2022 cycle. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.220
VAP-C04E_EDW01B18 / Edwards Creek / Described in VDH condemnation notice 197A, 1/21/1997. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.027
VAP-C04E_EDW02A98 / Edwards Creek / Portion of VDH-DSS condemnation notice 036-197B, 1/21/1997 open 3/15/2019. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.041
VAP-C04E_EDW02B20 / Edwards Creek / Portion of VDH-DSS condemnation notice 036-197D, 3/15/2019 not included in 197B, 1/21/1997. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.006
VAP-C04E_ELM01A98 / Elmington Creek / Described in the condemnation notice 157B, 6/3/1997. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.023
VAP-C04E_ELM01B08 / Elmington Creek / Portion of VDH condemnation notice 042-157D, 7/15/2020 not included in 157B, 6/3/1997. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.009
VAP-C04E_EST01A98 / East River / Described in the condemnation notice 92, 1/3/1995. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.198

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EST01B10 / East River / Portion of condemnation notice 041-092A, 10/15/2020 open in 92, 1/3/1995. Size increased in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.072
VAP-C04E_EST01D10 / East River, UT / Described in the condemnation notice 041-092S43, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.023
VAP-C04E_EST02A00 / East River / East River from SFC 92 to mouth, not otherwise segmented. MOBPH	5A	PCBs in Fish Tissue	2006	L	2.473
VAP-C04E_EST02B20 / East River, UT / Described in VDH-DSS condemnation 041-092C, 10/15/2020. Size reduced in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.013
VAP-C04E_EST03A06 / East River, UT / Described in VDH-DSS SFC 041-212M1, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C04E_EST04A02 / East River, UT / Described in VDH-DSS Condemnation Notice 041-212S197, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.026
VAP-C04E_EST05A06 / East River, UT (aka Mill Creek) / Described in VDH-DSS SFC 041-212S198, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.026
VAP-C04E_EST06A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212G, 10/25/2005. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.020
VAP-C04E_EST07A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212C, 9/30/2016. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.014
VAP-C04E_EST08A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212S46, 9/24/2018. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.004
VAP-C04E_EST09A22 / East River, UT / Described in VDH-DSS Condemnation 041-092S42, 10/15/2020 MOBPH	5A	PCBs in Fish Tissue	2006	L	0.015
VAP-C04E_GDN01A06 / Garden Creek / Tidal limit to mouth. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.373
VAP-C04E_GRE01A08 / Greenmansion Cove / Described in VDH-DSS condemnation notice 042-131M1, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.054

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_HAH01A98 / Horn Harbor / Described in VDH condemnation notices 039-026A and -026E, 4/15/2020. Shrank slightly in the 2022 cycle. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.181
VAP-C04E_HAH01C12 / Horn Harbor / Portion of VDH-DSS condemnation 26A, 2/25/1997 not closed in the 039-026, 4/15/2020 condemnation. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.054
VAP-C04E_HAH02A02 / Horn Harbor / From VDH-DSS condemnation 26A, 2/25/1997 downstream to the mouth, unless otherwise segmented. Merged in the 2022 cycle. CB6PH	5A	PCBs in Fish Tissue	2006	L	1.367
VAP-C04E_HAH02B12 / Horn Harbor / Portion of VDH-DSS condemnation 039-026S73, 4/15/2020 downstream of 26A, 2/25/1997. Shortened and split in the 2022 cycle. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.180
VAP-C04E_HAH02C20 / Horn Harbor / Described in VDH-DSS condemnation 039-026D, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.037
VAP-C04E_HAH02D18 / Horn Harbor, UT / Described in VDH-DSS condemnation 039-026B, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.005
VAP-C04E_HAH02F22 / Horn Harbor / Described in VDH-DSS condemnation 039-026M1, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.005
VAP-C04E_HAH04A06 / Horn Harbor, UT (Jacks Creek) / Described in VDH Shellfish Condemnation 039-100S170, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C04E_HKC01A08 / Hickorynut Cove / Tidal limit to mouth at Milford Haven PIAMH	5A	PCBs in Fish Tissue	2006	L	0.023
VAP-C04E_HUD01A08 / Hudgins Creek / Described in VDH-DSS Condemnation 037-061D, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C04E_LAN01A02 / Lanes Creek / As described in VDH-DSS condemnation notice 037-099C, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.020
VAP-C04E_LAN01B08 / Lanes Creek, UT / Described in VDH Shellfish Condemnation 037-099E, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.002

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_LAN02A22 / Lanes Creek / Described in VDH-DSS Condemnation 037-099S127, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.054
VAP-C04E_MID01A02 / Winder Creek / As described in the condemnation notice 037-099B, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.025
VAP-C04E_MIS01A04 / Miles Creek / Described in VDH Condemnation Notice 041-212B, 10/15/2020. Expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.039
VAP-C04E_MLF01A98 / Milford Haven / Described in the condemnation notice 036-197A, 3/15/2019. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.029
VAP-C04E_MLF02A98 / Milford Haven / Described in the condemnation notice 036-197E, 3/15/2019. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.030
VAP-C04E_MLF03A00 / Milford Haven / Downstream of SFC 036-197, 3/15/2019 except as otherwise segmented. PIAMH	5A	PCBs in Fish Tissue	2006	L	1.411
VAP-C04E_MLF04A06 / Milford Haven / Hills Bay. PIAMH	5A	PCBs in Fish Tissue	2006	L	2.283
VAP-C04E_MLF05A06 / Milford Haven / Described in VDH-DSS condemnation 036-197M1, 3/15/2019. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.041
VAP-C04E_MRC01A98 / Morris Creek / Described in VDH-DSS condemnation notice 61B, 4/4/1997. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.034
VAP-C04E_NOR01A02 / North River / Described in VDH-DSS condemnation notice 042-157A, 7/15/2020, excluding tidal Burke Mill Stream. Split in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.250
VAP-C04E_NOR01B08 / North River / Portion of condemnation notice 042-157S24, 7/15/2020 not included on the 6/3/1997 condemnation. Size expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.364
VAP-C04E_NOR01C22 / North River / Portion of VDH-DSS condemnation 042-057S24, 7/15/2020 closed in condemnation 157A, 6/3/1997. Split in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.067
VAP-C04E_NOR02A02 / North River / North River and tribs from SFC 157 to Mobjack Bay, except as otherwise segmented. MOBPH	5A	PCBs in Fish Tissue	2006	L	5.399

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_NOR03A20 / North River, UT / Described in VDH-DSS condemnation 042-157B, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.021
VAP-C04E_NOR04A22 / North River, UT / Described in VDH-DSS Condemnation 042-157S159, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C04E_OAK01A08 / Oakland Creek / Described in VDH-DSS condemnation notice 042-131S160, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.030
VAP-C04E_PEP01A06 / Pepper Creek / As described in the condemnation notice 040-085B, 9/26/2006. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.031
VAP-C04E_PUT01A98 / Put In Creek / Portion of VDH-DSS condemnation notice 041-005A, 10/15/2019 included in 5A, 6/5/1996. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.077
VAP-C04E_PUT01C10 / Put In Creek / Portion of condemnation notice 5A, 6/5/1996 open in 041-005, 10/15/2019. Shortened in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.005
VAP-C04E_PUT01D16 / Put In Creek / Described in condemnation notice 041-005B, 10/15/2019. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.005
VAP-C04E_PUT01E20 / Put In Creek / Described in VDH-DSS condemnation notice 041-005S44, 10/15/2019. Expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.044
VAP-C04E_PUT02A98 / Put In Creek / Described in the condemnation notice 5B, 6/5/1996. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.021
VAP-C04E_QUE01A98 / Queens Creek / Portion of VDH-DSS condemnation 99A, 4/9/1977 within 037-099A and -D, 4/15/2020. Split in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.094
VAP-C04E_QUE01B10 / Queens Creek / Described in VDH-DSS condemnation notice 037-099M1, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.031
VAP-C04E_QUE01C10 / Queens Creek / Below condemnation notice 99A, 4/7/1997, unless otherwise segmented. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.068

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_QUE01D22 / Queens Creek / Portion of VDH-DSS condemnation notice 99A, 4/9/1997 within 037-099S132, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.068
VAP-C04E_QUE02A12 / Queens Creek, UT / Described in VDH-DSS condemnation 037-099S169, 4/15/2020. Size reduced in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.011
VAP-C04E_RAN01A08 / Raines Creek / Described in VDH Shellfish Condemnation 041-212I, 10/25/2005. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.039
VAP-C04E_RAY01A12 / Raymond Creek / Described in VDH-DSS condemnation 042-131B, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.026
VAP-C04E_SLO01A08 / Sloop Creek / Described in VDH-DSS Condemnation 040-085A, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.028
VAP-C04E_STO01A08 / Stoakes Creek / Described in VDH Shellfish Condemnation 037-061M1, 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.006
VAP-C04E_STO01B14 / Stoakes Creek / Tidal limit to mouth unless otherwise segmented. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.292
VAP-C04E_STT01A98 / Stutts Creek / Described in VDH-DSS condemnation notice 037-061A, 4/15/2020. Split in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.074
VAP-C04E_STT01B06 / Stutts Creek, UT (Hole in the Wall) / Described in VDH-DSS condemnation 037-061S130, 4/15/2020. Expanded in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.038
VAP-C04E_STT01B10 / Stutts Creek/Morris Creek / Portion of VDH condemnation notice 037-061C, 4/15/2020 not condemned on 4/4/1997. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.045
VAP-C04E_STT01C14 / Stutts Creek / Described in VDH-DSS condemnation notice 037-061S128, 4/15/2020 excluding areas in 037-061D, 2/21/2017 and 61A, 4/4/1997. Merged and expanded in the 2022 cycle. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.109
VAP-C04E_STT01D22 / Stutts Creek / Portion of VDH-DSS condemnation 061A, 4/4/1997 seasonally condemned on 4/15/2020. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.016

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_STT02A00 / Stutts Creek / Downstream limit of condemnation to Fanneys Point, except as otherwise segmented. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.229
VAP-C04E_STT02B20 / Stutts Creek, UT / Described in VDH-DSS condemnation 037-061D, 2/21/2017. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.009
VAP-C04E_STT05A10 / Stutts Creek (Hole in the Wall) / From Point Breeze downstream to its mouth at the Chesapeake Bay. PIAMH	5A	PCBs in Fish Tissue	2006	L	1.037
VAP-C04E_TAB01A08 / Tabbs Creek / Described in VDH Shellfish Condemnation 041-212S166, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.034
VAP-C04E_THO01A08 / Thomas Creek / Described in VDH Shellfish Condemnation 041-212B, 9/25/2014. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.014
VAP-C04E_TOD01A20 / Toddsbury Creek / Described in VDH-DSS condemnation 042-157E, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.020
VAP-C04E_WHA01A06 / Wharf Creek / Described in VDH-DSS SFC 036-197M2, 3/15/2019. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.018
VAP-C04E_WHI01A08 / Whites Creek / Whites Creek around Festival Beach PIAMH	5A	PCBs in Fish Tissue	2006	L	0.074
VAP-C04E_WHI01B12 / Whites Creek / Stutts Creek to Festival Beach PIAMH	5A	PCBs in Fish Tissue	2006	L	0.243
VAP-C04E_WIN01A06 / Winter Harbor, UT / Described in the condemnation notice 038-178B, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.108
VAP-C04E_WIN01B00 / Winter Harbor / Lower Winter Harbor, not otherwise segmented. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.348
VAP-C04E_WIN01C20 / Winter Harbor / Described in VDH-DSS Condemnation 038-178S171, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.030
VAP-C04E_WIN02B06 / Winter Harbor / Described in VDH-DSS SFC 038-178M1, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.037
VAP-C04E_WIN03A06 / Winter Harbor / Northern portion of Winter Harbor. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.715

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_WIN03B18 / Winter Harbor / Described in VDH-DSS condemnation 038-176A and 038-178C, 4/15/2020. Split in the 2022 cycle. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.123
VAP-C04E_WIN03C22 / Winter Harbor / Described in VDH-DSS condemnation 038-176S122, 4/15/2020. CB6PH	5A	PCBs in Fish Tissue	2006	L	0.124
VAP-C04E_WON01A08 / Weston Creek / Described in VDH Shellfish Condemnation 041-212A, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.025
VAP-C04E_WOO01A10 / Woodas Creek / Described in VDH-DSS condemnation notice 041-092B, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.029
VAP-C04E_WOO02A20 / Woodas Creek / Described in VDH-DSS condemnation 041-09S45, 10/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.021
VAP-C04E_WTS01A08 / Whites Creek / Described in VDH Shellfish Condemnation 041-212E, 10/25/2005. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.018
VAP-C04E_XFA03A14 / XFA - North River, UT / Described in VDH-DSS condemnation 042-131A, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.020
VAP-C04E_XFE01A16 / XFE - Piankatank River, UT (aka Kibble Pond) / Described in VDH-DSS condemnation 036-197B, 3/15/2019. PIAMH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C04E_ZZZ01A00 / Unsegmented estuaries in C04 / Unsegmented portion of the watershed within PIAMH	5A	PCBs in Fish Tissue	2006	L	0.664
VAP-C04E_ZZZ02A06 / Unsegmented estuaries in C04 / Unsegmented portion within CB6PH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C04E_ZZZ03A06 / Unsegmented estuaries in C04 / Unsegmented portion within MOBPH	5A	PCBs in Fish Tissue	2006	L	0.428
VAP-C05E_FOX01A08 / Fox Mill Run / Described in VDH condemnation notice 96B, 8/12/1996. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.085
VAP-C05E_OLD01A12 / Oldhouse Creek / Tidal limit to mouth at Ware River MOBPH	5A	PCBs in Fish Tissue	2006	L	0.102
VAP-C05E_WAR01A02 / Ware River / Described in the condemnation notice 096A, 8/12/1996. Tidal extent adjusted in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.270

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_WAR01B08 / Ware River / Portion of VDH condemnation notice 043-096A, 7/15/2020 not included in condemnation 96A and 96B, 8/12/1996. Expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.224
VAP-C05E_WAR02A02 / Ware River / Ware River downstream of SFC 096. MOBPH	5A	PCBs in Fish Tissue	2006	L	6.309
VAP-C05E_WAR02B18 / Ware River / Described in VDH-DSS condemnation 043-096CS188, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C05E_WAR02C20 / Ware River / Described in VDH-DSS condemnation 043-096S26, 7/15/2020. Expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.316
VAP-C05E_WIL01A98 / Wilson Creek / Described in the condemnation notice 106, 8/12/1996. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.033
VAP-C05E_WIL01B08 / Wilson Creek / Portion of VDH condemnation notice 043-096B, 7/15/2020 not included in condemnation notice 106, 8/12/1996. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.142
VAP-C05E_WIL02A22 / Wilson Creek / Described in VDH-DSS Condemnation 043-096S25, 7/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.137
VAP-C05E_XDJ01A08 / XDJ - Wilson Creek, UT / Tidal limit to mouth at Wilson Creek. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.010
VAP-C05E_ZZZ01A00 / Unsegmented estuaries in C05 / Unsegmented portion of the watershed. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.116
VAP-C06E_BLV01A20 / Blevins Creek / Described in VDH-DSS condemnation 045-125A, 12/15/2020. Size reduced slightly in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.049
VAP-C06E_BRB01A08 / Browns Bay / Described in VDH Shellfish Condemnation 125B, 12/31/1996. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.021
VAP-C06E_BRB01B12 / Browns Bay / Portion of VDH Shellfish Condemnation 045-125M1, 12/15/2020 not included in 125B, 12/31/1996. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.024
VAP-C06E_FSC01A98 / Free School Creek / Described in VDH Shellfish Condemnation 044-093A, 6/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.039

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_FSC01B12 / Free School Creek / Portion of TMDL study area open for harvest on 044-093, 6/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.027
VAP-C06E_HEY01A98 / Heywood Creek / Described in the condemnation notice 044-054B, 6/15/2020. Expanded in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.106
VAP-C06E_HEY01B10 / Heywood Creek / Portion of condemnation notice 101, 4/1/1997 open in condemnation 044-054, 6/15/2020. Shortened in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.060
VAP-C06E_MNC01A98 / Monday Creek / Portion of VDH-DSS condemnation notice 25A, 12/31/1996 open on 12/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.030
VAP-C06E_MNC01B18 / Monday Creek / Described in VDH-DSS condemnation notice 045-125A, 12/12/2017. Tidal limit corrected in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.064
VAP-C06E_ROW01A06 / Rowes Creek / Described in VDH-DSS Shellfish Condemnation 044-054M2, 6/15/2020. Shortened in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.041
VAP-C06E_SEN01A02 / Northwest Branch Severn River / Described in condemnation notice 044-093B, 6/15/2020, excluding tributary XEE. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.127
VAP-C06E_SEN01B16 / Northwest Branch Severn River, UT / Described in VDH-DSS condemnation notice 044-093D, 5/30/2018. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.034
VAP-C06E_SEN01C10 / Northwest Branch Severn River / Portion of condemnation notice 93A, 4/1/1997 open on 044-093, 6/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.167
VAP-C06E_SEN02A06 / Northwest Branch Severn River / Northwest Branch Severn Creek not otherwise segmented Segment adjusted in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.427
VAP-C06E_SES01A00 / Southwest Branch Severn River / Mainstem MOBPH	5A	PCBs in Fish Tissue	2006	L	0.635

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_SEV02A00 / Severn River / End of NW Branch to mouth, unless otherwise segmented. MOBPH	5A	PCBs in Fish Tissue	2006	L	3.258
VAP-C06E_STR01A08 / Sterling Creek / Described in VDH Shellfish Condemnation 044-093E, 4/2/2014. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.021
VAP-C06E_THC01A98 / Thorntons Creek / Described in the condemnation notice 044-054A, 6/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.063
VAP-C06E_THC01B10 / Thorntons Creek / Portion of condemnation notice 054, 4/1/1997 open in condemnation 044-054, 6/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.016
VAP-C06E_VGH01A98 / Vaughans Creek / Described in the condemnation notice 93B, 4/1/1997. Merged in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.121
VAP-C06E_VGH02A22 / Vaughans Creek / Portion of VDH-DSS Condemnation 044-093C, 6/15/2020 not included in 93B, 4/4/1997 MOBPH	5A	PCBs in Fish Tissue	2006	L	0.015
VAP-C06E_WET01A06 / Willetts Creek / Described in VDH Shellfish Condemnation 044-054M1, 6/15/2020. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.033
VAP-C06E_WET01B08 / Willetts Creek / Described in VDH Condemnation 044-054C, 2/15/2006. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.128
VAP-C06E_WTT01A08 / Whitaker Creek / Described in VDH-DSS Condemnation 044-093D, 6/15/2020 Size reduced in the 2022 cycle. MOBPH	5A	PCBs in Fish Tissue	2006	L	0.037
VAP-C06E_XEE01A10 / XEE - Northwest Branch Severn River, UT / Tidal limit to mouth at NW Branch Severn River MOBPH	5A	PCBs in Fish Tissue	2012	L	0.003
VAP-C06E_ZZZ01A00 / Unsegmented estuaries in C06 / Unsegmented portion of the watershed. MOBPH	5A	PCBs in Fish Tissue	2006	L	1.358
VAT-C07E_FMB01A12 / Fort Monroe Beaches / All of Fort Monroe Beach from the start of Mill Cr south to Lighthouse Old Point Comfort. Portion of CBP Segment CB8PH. No DSS shellfish condemnations.	5A	PCBs in Fish Tissue	2006	L	0.333

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_LCC01A08 / Little Creek & Harbor / Entire area of Little Creek and upper portion of Little Creek Harbor. From headwaters of Little Cr. downstream to lower portion of Harbor at mouth of Bay. CBP segment CB8PH. DSS (ADMINISTRATIVE) condemnation # 068-017 C (effective 20050308).	5A	PCBs in Fish Tissue	2006	L	1.064
VAT-C09E_BLB01A06 / Bulbeggan Creek / Located southeast of Pitts Neck area. From estuarine/riverine transition (end of tidal waters) downstream to mouth (confluence with Pocomoke Sound). Portion of CBP segment POCOH. No DSS condemnation or notice.	5A	PCBs in Fish Tissue	2006	L	0.134
VAT-C09E_POC01A06 / Pocomoke River / Located northeast of Pitts Neck area, along VA/MD border. From VA/MD state line downstream to mouth (confluence with Pocomoke Sound) within VA. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.240
VAT-C09E_POC02A08 / Pocomoke Sound [C09 portion] / Pocomoke Sound downstream of the Pocomoke River (VA portion). Portion of CBP segment POCOH. Portion of DSS shellfish direct harvesting condemnation # 075-033 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.726
VAT-C09E_PTT01A06 / Pitts Creek / Located northeast of Pitts Neck area, along VA/MD border. From VA/MD state line downstream to mouth (confluence with Pocomoke River) within VA. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.127
VAT-C09E_PTT01B10 / Pitts Creek - Upper [Admin Cond] / Located northeast of Pitts Neck area, along VA/MD border. From VA/MD state line upstream to headwaters within VA at Dunns Swamp Road. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.069
VAT-C09E_ZZZ01A06 / Unsegmented tidal tributaries in C09E-POCOH / Evaluated non segmented portions of C09E. Portion of CBP segment POCOH. Portion of DSS shellfish direct harvesting condemnation # 075-033 (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.006
VAT-C10E_BAG01A00 / Bagwell Creek / Northwest of Town of Justisville. Entirety of creek. Portion of CBP segment POCMH. DSS shellfish direct harvesting condemnation # 077-138 A (effective 20200715).	5A	PCBs in Fish Tissue	2006	L	0.115
VAT-C10E_BAG02A10 / Bagwell Creek - Lower / Northwest of Town of Justisville. Lower DSS OPEN portion of Cr. Portion of CBP segment POCMH. DSS (OPEN) shellfish direct harvesting area # 077-138 (effective 20200715).	5A	PCBs in Fish Tissue	2006	L	0.101

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_DEP01A06 / Deep Creek - Middle / East of town of Bayside. Middle portion of creek adjacent to Town of Deep Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 077-138 C (effective 20170620).	5A	PCBs in Fish Tissue	2006	L	0.160
VAT-C10E_DEP01B10 / Deep Creek - Upper [DSS ADMIN] / East of town of Bayside. Upper portion of creek adjacent to Town of Deep Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 077-138 C (effective 20200715).	5A	PCBs in Fish Tissue	2006	L	0.114
VAT-C10E_DEP02A06 / Deep Creek - Lower / East of town of Bayside. Lower portion of creek, from RM 1.6 downstream to mouth. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 077-138 C (effective 20200715).	5A	PCBs in Fish Tissue	2006	L	0.420
VAT-C10E_DEP03A08 / Deep Creek - Lower [No DSS] / East of town of Bayside. Lower portion of creek, from RM 1.6 downstream to mouth. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	5A	PCBs in Fish Tissue	2006	L	0.220
VAT-C10E_DIX01A08 / Dix Cove / Northwest of Town of Parksley. Adjacent to Bagwell & Hunting Creeks. Within CBP segment POCMH. Portion of DSS (OPEN) shellfish direct harvesting area # 077-138 (effective 20200715).	5A	PCBs in Fish Tissue	2006	L	0.041
VAT-C10E_DOE01A22 / Doe Cr-Lower / Tributary of Chesapeake Bay off of Web Island in C10E-POCMH. DSS (OPEN) shellfish direct harvesting condemnation area # 077-138 (20200715).	5A	PCBs in Fish Tissue	2006	L	0.225
VAT-C10E_DOE01B22 / Doe Cr-Upper / Tributary of Chesapeake Bay off of Web Island in C10E-POCMH. DSS (Restricted) shellfish direct harvesting condemnation area # 077-138 D (20200715).	5A	PCBs in Fish Tissue	2006	L	0.140
VAT-C10E_GLF01A06 / Guilford Creek - Upper [TMDL] / Northeast of Town of Guilford. Upper portion of creek, from end of tidal waters downstream to end of DSS condemnation portion. Portion of CBP segment POCMH. DSS shellfish condemnation # 076-176 A (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.152
VAT-C10E_GLF02A06 / Guilford Creek - Lower / Northeast of Town of Guilford. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. DSS shellfish Restricted-condemnation direct harvesting condemnation # 076-176 A (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.106
VAT-C10E_GLF03A08 / Guilford Creek - Lower [No DSS] / Northeast of Town of Guilford. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation identified.	5A	PCBs in Fish Tissue	2006	L	0.460

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_GSH01A06 / Guard Shore Beach / In Old Cove (Beasley Bay). Located at Bailey Ridge, west of Bloxom. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation.	5A	PCBs in Fish Tissue	2006	L	0.026
VAT-C10E_HLD01A06 / Holdens Creek - Upper / Located southeast of Joeys Neck area. From confluence Sandy Bottom Br downstream to 0.5 mi of station @ 7-HLD002.67. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.034
VAT-C10E_HLD02A06 / Holdens Creek - Lower / Located southeast of Joeys Neck area. From 0.5 mi downstream of station @ 7-HLD002.67 downstream to mouth. Portion of CBP segment POCOH. Portion of DSS shellfish condemnation # 075-033 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.050
VAT-C10E_HUN01A00 / Hunting Creek - Upper / W of Hopkins. Upper portion, from end of tidal waters downstream to end of DSS condemnation (downstream of Town of Hopkins). CBP segment POCMH. DSS shellfish direct harvesting condemnation # 077-138 B (effective 20200715).	5A	PCBs in Fish Tissue	2006	L	0.194
VAT-C10E_HUN02A06 / Hunting Creek - Lower / West of Town of Hopkins. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. DSS (OPEN) shellfish direct harvesting condemnation # 077-138 (effective 20200715).	5A	PCBs in Fish Tissue	2006	L	0.648
VAT-C10E_ISB01A06 / Island Bay - [No DSS] / Between Russell Island & Long Ridge area. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnations.	5A	PCBs in Fish Tissue	2006	L	0.953
VAT-C10E_MES01A06 / Messongo Creek - Upper / Located southeast of Marsh Market & start of Rec TMDL (213) . Running parallel with Rt 692 upstream to the end of tidal waters. POCMH. Upstream portion of DSS shellfish condemnation # 076-167 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.042
VAT-C10E_MES02A06 / Messongo Creek - Middle [TMDL-06] / South of Town of Belinda. Portion of CBP segment POCMH. TMDL P# 732- SF. DSS Condemnation # 076-167 (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.156
VAT-C10E_MES02B08 / Messongo Creek - Middle [No TMDL] / Located south of Saxis and Belinda Rd intersection. Portion of CBP segment POCMH. DSS Restricted condemnation # 076-167 (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.341

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_MES03A06 / Messongo Creek - Lower / Located south of Saxis and Belinda Rd intersection downstream to the mouth. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation.	5A	PCBs in Fish Tissue	2006	L	0.858
VAT-C10E_MUD01A04 / Muddy Creek - Upper / Located southeast of Byrds Marsh and northeast of Town of Bloxom. From end of tidal waters downstream to Poulson Pt. Portion of CBP segment POCMH. DSS shellfish condemnation # 076-176 B (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.301
VAT-C10E_MUD02A06 / Muddy Creek - Lower / Located southeast of Byrds Marsh and northeast of Town of Bloxom. Lower portion of creek, Pettigrew Bend to end of DSS Open condemnation. Portion of CBP segment POCMH. DSS shellfish Restricted condemnation # 076-176 B (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.048
VAT-C10E_MUD03A08 / Muddy Creek - Lower [No DSS] / Located southeast of Byrds Marsh and northeast of Town of Bloxom. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation.	5A	PCBs in Fish Tissue	2006	L	0.060
VAT-C10E_PMC01A20 / Pompco Creek / Inlets of unnamed island on the eastern portion of Pompco Creek. Portion of CBP segment CB7PH.Shellfishing OPEN Condemnation (20180614).	5A	PCBs in Fish Tissue	2006	L	0.011
VAT-C10E_POC01A08 / Pocomoke Sound - Lower [C10 portion] / Pocomoke Sound downstream of the Pocomoke River (VA portion). Area adjacent to Holdens Creek. Portion of CBP segment POCOH. Portion of DSS shellfish direct harvesting condemnation # 075-033 A (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	1.452
VAT-C10E_STR01A08 / Starling Creek / Located on Saxis Island, southwest of Pocomoke Sound. Embayment at town of Saxis. From end of tidal waters downstream to end of DSS condemnation. Portion of CBP segment POCMH. DSS shellfish direct harvesting condemnation # 075-118 M1 (effective 20180725).	5A	PCBs in Fish Tissue	2006	L	0.091
VAT-C10E_YOU01A06 / Young Creek / Northeast of Town of Guilford and south of Jobes Island. Portion of CBP segment POCMH. DSS (OPEN) shellfish direct harvesting condemnation # 076-176 C (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.072
VAT-C10E_YOU02A20 / Lower - Young Creek / Northeast of Town of Guilford and south of Jobes Island. Portion of CBP segment POCMH. DSS Restricted-condemnation shellfish direct harvesting condemnation # 076-176 (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.172

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_ZZZ01A06 / Unsegmented Bay Waters in C10E-CB7PH. / Evaluated non-segmented Bay Waters in C10E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnations.	5A	PCBs in Fish Tissue	2006	L	1.405
VAT-C10E_ZZZ02A06 / Unsegmented estuaries in C10E-POCMH [No DSS] / Evaluated non-segmented portions of C10E not contained within VACB-R01E-CB7S. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation area identified.	5A	PCBs in Fish Tissue	2006	L	2.865
VAT-C10E_ZZZ03A22 / Unsegmented estuaries in C10E-POCMH [Restricted DSS] / Evaluated non-segmented portions of C10E not contained within VACB-R01E-CB7S. Portion of CBP segment POCMH. DSS shellfish Restricted direct harvesting condemnation.	5A	PCBs in Fish Tissue	2006	L	0.110
VAT-C11E_CED01A00 / Cedar Creek / Entire estuarine portion of creek. North shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.063
VAT-C11E_CSX01A00 / Chesconessex Creek - South Br. - Upper / South of Chesconessex and northwest of Onancock. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 079-112 A (effective 20180620).	5A	PCBs in Fish Tissue	2006	L	0.109
VAT-C11E_CSX01B10 / Chesconessex Creek - South Br. - Middle / South of Chesconessex and northwest of Onancock. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 079-112 Restricted(effective 20180614).	5A	PCBs in Fish Tissue	2006	L	0.100
VAT-C11E_CSX02A06 / Chesconessex Creek - N. Branch / Lower portion of Creek, including tidal tribs., from the end DSS condemnation # 079-112 downstream to mouth. Portion of CBP segment CB7PH. Part of area contains no DSS Condemnation remainder is OPEN 079-112 (20180614).	5A	PCBs in Fish Tissue	2006	L	1.832
VAT-C11E_CSX02B10 / Chesconessex Creek - N. Branch / North Branch portion of creek at marina area. DSS Admin condemnation # 079-112 B (effective 20180614). Portion of CBP segment CB7PH.	5A	PCBs in Fish Tissue	2006	L	0.030
VAT-C11E_FNN01A00 / Finneys Creek - Upper / East of Bailey Neck area. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.069

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_FNN02A00 / Finneys Creek - Lower / East of Bailey Neck area. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 080-013 A(effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.119
VAT-C11E_LTH01A00 / Leatherberry Creek / Entire estuarine portion of creek. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 081-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.070
VAT-C11E_MTC01A06 / Matchotank Creek - Upper / South of Broadway Neck area. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted condemnation # 080-169 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.069
VAT-C11E_MTC02A06 / Matchotank Creek - Lower / South of Broadway Neck area. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 080-169 A (effective 20200515)	5A	PCBs in Fish Tissue	2006	L	0.116
VAT-C11E_OCB01A00 / Central Branch, Onancock Creek / CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 080-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.018
VAT-C11E_OCN01A04 / Onancock Creek Mainstem - Upper [Admin Cond] / Near Town of Onancock. From junction of N, Central & S Brs downstream to end of Admin DSS condemnation. CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 080-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.129
VAT-C11E_OCN01C10 / Onancock Creek Mainstem - Upper / Near Town of Onancock. From junction of N, Central & S Brs downstream to north of Cedar Cr. CBP segment CB7PH. Portion of DSS shellfish condemnation # 081-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.097
VAT-C11E_OCN02A04 / Onancock Creek Mainstem - Lower / East of Bailey Neck area. Mainstem of Onancock Creek- lower. From Parker Cr downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 080-013 (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	1.163
VAT-C11E_OCN02B08 / Onancock Creek Mainstem - Poplar Cove / East of Bailey Neck area. Mainstem of Onancock Creek. Marina in area of Poplar Cove. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.016

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_OCN02C22 / Onancock Creek Mainstem - Lower / Mainstem of Onancock Creek- Upper. From area near Cedar Creek downstream to Parker Cr. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 A(effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.790
VAT-C11E_ONB01A02 / North Branch, Onancock Creek / Located near Town of Onancock. Entire North Branch, Onancock Creek. CBP segment CB7PH. DSS shellfish condemnation (Admin Cond-PROHIBITION) # 081-013 D (effective 20180327).	5A	PCBs in Fish Tissue	2006	L	0.021
VAT-C11E_OSB01A02 / Southern Branch, Onancock Creek / Near Town of Onancock. Entire Southern Branch Onancock Creek. CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 081-013 A (effective 20180327).	5A	PCBs in Fish Tissue	2006	L	0.058
VAT-C11E_PMC01B20 / Lower Pompcro Creek / Portions of Pompcro Creek encompassing Tobacco Island and Rogue Island.	5A	PCBs in Fish Tissue	2006	L	0.934
VAT-C11E_PMC02B20 / Pompcro Cr- SW Inlet of UT off of Rogue Island / Southwest Inlet of Pompcro Creek trib at Tobacco Island. VDH DSS Restricted-Condemnation #079-112 (20180614).	5A	PCBs in Fish Tissue	2006	L	0.010
VAT-C11E_PRK01A08 / Parkers Creek - Upper / South shore tributary of Onancock Creek at Finneys Neck. Upstream portion of creek. Portion of CBP segment CB7PH. DSS shellfish Restricted-condemnation direct harvesting condemnation # 080-013 (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.035
VAT-C11E_PRK02A08 / Parkers Creek - Middle / South shore tributary of Onancock Creek at Finneys Neck. Middle portion of creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted condemnation # 080-013 (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.041
VAT-C11E_PRK03A08 / Parkers Creek - Lower / South shore tributary of Onancock Creek at Finneys Neck. Area around marina at mouth of Parkers Creek. Portion of CBP segment CB7PH. DSS shellfish seasonal condemnation # 080-013 A (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.086
VAT-C11E_TAR01A06 / Tarkill Creek / Located in Sluitkill Neck area. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	5A	PCBs in Fish Tissue	2006	L	0.190
VAT-C11E_ZZZ01A00 / Unsegmented estuaries in C11E. / Evaluated non segmented portions of C11E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 080-013 (20200515).	5A	PCBs in Fish Tissue	2006	L	0.550

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_ZZZ01B22 / Unsegmented estuaries in C11E. / Evaluated non segmented portions of C11E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 (20200515).	5A	PCBs in Fish Tissue	2006	L	0.050
VAT-C12E_PUN01A06 / Pungoteague Creek - Upper / W of Melfa. Upper portion of Pungoteague Cr. from the end of tidal waters downstream to Boggs Wharf and Route 634. CBP segment CB7PH. DSS condemnation # 081-119 B (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	0.232
VAT-C12E_PUN01B16 / Pungoteague Creek - Middle-Upper / W of Melfa. Upper portion of Pungoteague Cr. from the Boggs Warf to Horse Hole Creek. CBP segment CB7PH. DSS condemnation Conditionally Approved # 081-119 C4 (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	0.265
VAT-C12E_PUN02A06 / Pungoteague Creek - Lower / Located west of Town of Melfa. Lower portion of Pungoteague Cr. from Horse Hole Creek downstream to mouth. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 081-119 (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	1.186
VAT-C12E_TAY01A06 / Taylor Creek / Located southwest of Harborton. From the end of tidal waters downstream Route 628 and Eastern Shore Yacht Club. Portion of CBP segment CB7PH. Portion of DSS condemnation # 081-119 C (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	0.130
VAT-C12E_TAY02A14 / Taylor Creek- Mouth / Located southwest of Harborton. From Route 628 and Eastern Shore Yacht Club to Puncoteague confluence. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 C (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	0.033
VAT-C12E_UNR01A06 / Underhill Creek / In area of Mount Nebo. North shore tributary to Pungoteague Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 081-119 A (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	0.070
VAT-C12E_WRP01A06 / Warehouse Prong - Upper / Located north of Bobtown and east of Boggs Wharf. Upper portion, from headwaters to confluence with UT. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 B (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	0.042
VAT-C12E_WRP02A06 / Warehouse Prong - Lower / Located north of Bobtown and east of Boggs Wharf. Lower portion, from confluence with UT downstream to confluence with Pungoteague Cr. Portion of CBP segment CB7PH. DSS (Admin Cond) condemnation # 081-119 B (effective 20200518).	5A	PCBs in Fish Tissue	2006	L	0.054

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_ZZZ01A00 / Unsegmented Bay Waters in C12E. / Evaluated non segmented portions of C12E, UT south of Pungoteague Cr. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	5A	PCBs in Fish Tissue	2006	L	0.002
VAT-C13E_BCE01A08 / Back Creek / Southwest of Fairview Neck area. North shore tributary of Nandua Cr. Portion of CBP segment CB7PH. DSS Open and Conditionally Approved shellfish direct harvesting condemnation # 082-160 C7 (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.141
VAT-C13E_BOS01A08 / Boggs Gut / Southwest of Fairview Neck area. South shore tributary of Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 D (effective 20200515)	5A	PCBs in Fish Tissue	2006	L	0.034
VAT-C13E_CHC01A00 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting OPEN # 085-185 (effective 20191115).	5A	PCBs in Fish Tissue	2006	L	0.323
VAT-C13E_CHC01B16 / Church Creek -Upper / In area of Elliotts Neck. Tributary to Nassawadox Creek, upstream portion of Church Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-185 B (effective 20191115).	5A	PCBs in Fish Tissue	2006	L	0.165
VAT-C13E_CHC01C10 / Church Creek - Middle-UT North Cove / In area of Elliotts Neck. Tributary to Church Creek - Middle, UT North Cove. Portion of CBP segment CB7PH. DSS shellfish harvesting condemnation # 085-185 A (effective 20191115).	5A	PCBs in Fish Tissue	2006	L	0.059
VAT-C13E_CHC01D22 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted # 085-185 D (effective 20191115).	5A	PCBs in Fish Tissue	2006	L	0.050
VAT-C13E_CRA01A06 / Craddock Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to end of shellfish condemnation (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 083-195 A (effective 20121210).	5A	PCBs in Fish Tissue	2006	L	0.082
VAT-C13E_CRA02A08 / Craddock Creek - Lower and UT / Most of Craddock Cr. excluding SF condemnation in upper creek. Including all tribs. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 083-195 (effective 20121210).	5A	PCBs in Fish Tissue	2006	L	0.911

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_CRR01A08 / Curratuck Creek / Southwest of Fairview Neck area. Lower south shore tributary of middle Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS (OPEN & Conditionally Approved) shellfish direct harvesting condemnation # 082-160 C6(effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.277
VAT-C13E_HGC01A06 / Holly Grove Cove- Upper / Located near Wellington Neck. From end of tidal waters downstream to mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-110 E (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.143
VAT-C13E_KLL01A06 / Kelley Cove / From end of tidal waters downstream to confluence with Nassawadox Cr. (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.026
VAT-C13E_MAG01A08 / McLean Gut - Upper / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.038
VAT-C13E_MAG02A08 / McLean Gut - Lower / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.032
VAT-C13E_NAN01A00 / Nandua Creek - Upper [TMDL-bact.] / Southeast of Hacks Neck area. The two most upstream branches of Nandua Creek, incl. Kusian Cove. Portion of CBP segment CB7PH. DSS condemnation # 082-160 A&C (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.144
VAT-C13E_NAN01B08 / Nandua Creek - Lower Upper / Southwest of Fairview Neck area. North shore tributary of Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 082-160 (effective 20200515).	5A	PCBs in Fish Tissue	2006	L	0.223
VAT-C13E_NAN02A06 / Nandua Creek - Lower / Lower portion of Nandua Creek including unsegmented tidal tribs., from the confluence of Boggs Gut downstream to mouth (RM 0.0). Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	5A	PCBs in Fish Tissue	2006	L	3.150
VAT-C13E_NSS01A06 / Nassawadox Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to confluence with Kelly Cove (RM 5.2) area of TMDL-bact 6/07. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.205

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_NSS01B08 / Nassawadox Creek - Upper [No TMDL-bact] / From confluence with Kelly Cove (RM 5.2) downstream to mainstem (outside of area of TMDL-bact 6/07). Portion of CBP segment CB7PH. Portion of DSS (OPEN) shellfish direct harvesting condemnation # 085-110 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.169
VAT-C13E_NSS02A06 / Nassawadox Creek - Lower / Mainstem of lower portion of creek to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 085-110 & 085-185 (effective 20191115).	5A	PCBs in Fish Tissue	2006	L	2.121
VAT-C13E_NSS03A08 / Nassawadox Creek - Middle, N. Shore Tribs / Occohannock Neck Area. North Shore UTs to lower-middle mainstem Nassawadox. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 A & C (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.126
VAT-C13E_OCH01A06 / Occohannock Creek - Upper / Upper portion of Occohannock Creek and tidal tribs., from end of tidal waters downstream to Creekside Dr at end of SF restricted area. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 A (effective 20201215).	5A	PCBs in Fish Tissue	2006	L	0.538
VAT-C13E_OCH02A06 / Occohannock Creek - Lower / Lower portion of Occohannock Creek and tidal tribs., from downstream of Youngs Pt. to mouth (RM 0.0). Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 084-043 (effective 20201215).	5A	PCBs in Fish Tissue	2006	L	2.469
VAT-C13E_OCH02B08 / Occohannock Creek - Middle Marina Area / In middle portion of Occohannock Creek, marina area of Davis Wharf. Portion of CBP segment CB7PH. DSS SEASONAL shellfish direct harvesting condemnation # 084-043 M1 (effective 20201215).	5A	PCBs in Fish Tissue	2006	L	0.034
VAT-C13E_OCH03A08 / Shields Cove & Fisher Cove / West of Belle Haven area. North and South shore tributaries of Occohannock Cr., NW of Youngs Pt. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 B & C (effective 20201215).	5A	PCBs in Fish Tissue	2006	L	0.087
VAT-C13E_WHC01A06 / Warehouse Creek - Upper / Southeast fork of upper portion of creek. Portion of CBP segment CB7PH. DSS ADMIN-PROHIB shellfish direct harvesting condemnation # 085-110 F (effective 20201115) (VPDES outfall condemnation for Shore Memorial Hospital STP VA0027537).	5A	PCBs in Fish Tissue	2006	L	0.032

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_WHC01B10 / Warehouse Creek - Upper Middle (Admin Cond) / Including northern fork and continuing downstream to bend near Wellington Neck. Portion of CBP segment CB7PH. DSS (Admin Cond) shellfish direct harvesting condemnation # 085-110C (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.166
VAT-C13E_WHC02A06 / Warehouse Creek - Lower / Including bend near Wellington Neck to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 085-110 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.246
VAT-C13E_ZZZ01A00 / Unsegmented estuaries in C13E. / Evaluated non segmented portions of C13E. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	5A	PCBs in Fish Tissue	2006	L	0.752
VAT-C14E_BRL01A06 / Barlow Creek / In area of Old Town Neck. South shore tributary to lower Mattawoman Cr. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 086-136 (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.049
VAT-C14E_HUG01A00 / Hungars Creek - Upper / Upper portion of Hungars Creek from end tidal waters downstream to end of TMDL boundary near Holloway Dr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.058
VAT-C14E_HUG01B22 / Hungars Creek - Upper / Upper portion of Hungars Creek from end of TMDL boundary near Holloway Dr to start of open shellfish area near Park Ln. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A & S195 (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.080
VAT-C14E_HUG02A00 / Hungars Creek - Lower / Lower portion of Hungars Creek near Park Ln upstream of confluence with Jacobus Cr. downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	1.187
VAT-C14E_HUG02B12 / UT to Hungars Creek / Northern trib between Great Neck and Sparrow Point. Restricted portion of SF. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 C (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.039
VAT-C14E_HUG02C14 / Hungars Creek - Northern Trib / Lower portion of Hungars Creek, Trib north of the mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 S196 (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.073

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_JAC01A06 / Jacobus Creek - Upper South Fork / West of Johnstown. Trib to Hungars Cr. Uppermost portion of south branch. Portion of CBP segment CB7PH. DSS (Admin - Prohibition) due to STP VA0023817 Outfall) shellfish direct harvesting condemnation # 086-136F (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.028
VAT-C14E_JAC02A06 / Jacobus Creek - Upper Forks / West of Johnstown. Trib to Hungars Cr. Middle mainstem, north fork and lower portion of south fork. Portion of CBP segment CB7PH. DSS (Admin Cond) shellfish direct harvesting condemnation # 086-136 B (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.152
VAT-C14E_JAC03A06 / Jacobus Creek - Lower / West of Johnstown. South shore trib. to Hungars Cr. Lower mainstem portion. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.187
VAT-C14E_MAT01A06 / Mattawoman Creek - Upper / South of Wilsonia Neck. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 D & S48 (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.155
VAT-C14E_MAT02A10 / Mattawoman Creek - Lower / South of Wilsonia Neck - mouth of Mattawoman Cr. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	5A	PCBs in Fish Tissue	2006	L	0.357
VAT-C14E_THG01A06 / The Gulf - Upper / From end of tidal waters downstream to narrowing 0.45 mi. from mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 087-174 A (effective 20150827).	5A	PCBs in Fish Tissue	2006	L	0.090
VAT-C14E_THG02A06 / The Gulf - Lower / From narrowing 0.45 mi. from mouth downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish condemnation # 087-174 (20150827) & no DSS.	5A	PCBs in Fish Tissue	2006	L	0.204
VAT-C14E_WHS01A06 / Westerhouse Creek - North Branch [TMDL] / In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-199 (20181115).	5A	PCBs in Fish Tissue	2006	L	0.214
VAT-C14E_WHS02A06 / Westerhouse Creek - Upper South Branch [TMDL] / In Church Neck area, west of Bridgetown. Upper portion of Westerhouse Creek South Branch. Portion of CBP segment CB7PH. Portion DSS shellfish direct harvesting condemnation # 085-199 A (effective 20181115).	5A	PCBs in Fish Tissue	2006	L	0.019

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_WHS03A20 / Upper Westerhouse Creek - North Branch& Upper Middle [TMDL] / In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted-condemnation # 085-199 (20181115).	5A	PCBs in Fish Tissue	2006	L	0.030
VAT-C14E_ZZZ01A00 / Unsegmented estuaries in C14E. / Evaluated non segmented portions of C14E - mouth of Matchotank & Hungars Crs. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 20200915.	5A	PCBs in Fish Tissue	2006	L	0.838
VAT-C15E_CCB01A06 / Cape Charles Beach / Located west of Town of Cape Charles, along Chesapeake Bay. Portion of CBP segment CB7PH. DSS (Administrative) shellfish harvesting condemnation 089-011 A (effective 20051202) which is present.	5A	PCBs in Fish Tissue	2006	L	0.079
VAT-C15E_CRS01A06 / Cherrystone Inlet - Upper / From Eyreville Neck end of tidal waters downstream to confluence with Chesapeake Bay. Including Old Castle Cr. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 088-139 (20200815)	5A	PCBs in Fish Tissue	2006	L	2.138
VAT-C15E_CRS01B18 / Cherrystone Inlet - Eyrehall Cr / SE trib to Cherrystone Inlet. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 088-139 (20200815).	5A	PCBs in Fish Tissue	2006	L	0.103
VAT-C15E_CRS02A20 / Cherrystone Inlet - Upper / From Eyreville Neck end of tidal waters downstream to the mouth of the inlet. Portion of CBP segment CB7PH. DSS shellfish OPEN # 088-139 (20200815).	5A	PCBs in Fish Tissue	2006	L	0.243
VAT-C15E_KNS01A00 / Kings Creek - Upper Forks and Middle / From end of tidal waters downstream 0.16 mi. past confluence of the two most upstream forks. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 088-139 A (20180821).	5A	PCBs in Fish Tissue	2006	L	0.093
VAT-C15E_KNS03A08 / Kings Creek - Lower Middle / From start of DSS marina area downstream to Cherrystone. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 088-139 (20200815) &Seasonal Condemnation M1.	5A	PCBs in Fish Tissue	2006	L	0.167
VAT-C15E_KNS03B22 / Kings Creek - Lower Middle / DSS marina area DSS (Admin) shellfish direct harvesting condemnation # 088-139 (20200815) Section B. Portion of CBP segment CB7PH	5A	PCBs in Fish Tissue	2006	L	0.040
VAT-C15E_KNS04A22 / Kings Creek - Lower Middle / From Townfield Dr to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation OPEN # 088-139 (20200815).	5A	PCBs in Fish Tissue	2006	L	0.040

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C15E_ZZZ01A08 / Unsegmented estuaries in C15E. / Evaluated non segmented portions of C15E. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	5A	PCBs in Fish Tissue	2006	L	0.587
VAT-C16E_CCH01A04 / Cape Charles Harbor - Upper / From most upstream end of harbor downstream to 1/2 distance to mouth (RM 0.23). Portion of CBP segment CB7PH. DSS ADMINISTRATIVE shellfish harvesting condemnation # 089-011 B (effective 20051202) (VPDES outfall Town of Cape Charles STP VA0021288).	5A	PCBs in Fish Tissue	2006	L	0.056
VAT-C16E_CCH02A00 / Cape Charles Harbor - Lower / From 1/2 distance to mouth (RM 0.23) downstream to mouth. Portion of CBP segment CB7PH. DSS ADMINISTRATIVE shellfish harvesting condemnation # 089-011 A (effective 20051202) (VPDES outfall Town of Cape Charles STP VA0021288).	5A	PCBs in Fish Tissue	2006	L	0.060
VAT-C16E_KPT01A06 / Kiptopeke Beach / Located west of Cedar Grove, along Chesapeake Bay, near southern tip of Eastern Shore. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation present.	5A	PCBs in Fish Tissue	2006	L	0.044
VAT-C16E_OPC01A06 / Old Plantation Creek - Upper [TMDL-bact] / Upper portion of Old Plantation Creek within TMDL-Bact (33771). CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.044
VAT-C16E_OPC01B08 / Old Plantation Creek - Upper [No TMDL-bact] / Upper portion of Old Plantation Creek and one southeast embayment not within TMDL-Bact (33771). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	5A	PCBs in Fish Tissue	2006	L	0.152
VAT-C16E_OPC02A00 / Old Plantation Creek - Lower / Lower portion of Old Plantation Creek, from approx. Red Bank (RM 2.0) downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 090-152 (20190815).	5A	PCBs in Fish Tissue	2006	L	0.926
VAT-C16E_ZZZ01A00 / Unsegmented estuaries in C16E. / Evaluated non segmented portions of C16E. Portion of CBP segment CB7PH. DSS Shellfish OPEN condemnation 20190815.	5A	PCBs in Fish Tissue	2006	L	0.146

Chesapeake Bay and Tidal Tributaries

Fish Consumption

PCBs in Fish Tissue - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
1548.062		

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Sources: Atmospheric Deposition - Toxics; Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-19-SF XEU - Prentice Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 022C, 2/27/1997

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Condemnation 015-022E, 6/15/2020

This tributary of Prentice Creek was included on the 1998 303(d) list due to condemnation 022C, 2/27/1997. The bacteria TMDL for the 1998 impairment was completed as part of the Dividing Creek and Prentice Creek Bacteria TMDL report; the TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

During the 2010 cycle, the condemnation expanded and merged with the 1998 mainstem condemnation. The 1998 segment is considered Category 4A for the Shellfish Use; the TMDL for the expanded area is addressed in fact sheet C01E-09-SF2.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_XEU01A02 / XEU - Prentice Creek, UT / Described in VDH-DSS condemnation notice 022C, 2/27/1997. CB5MH	4A	Fecal Coliform	1998	L	0.011

XEU - Prentice Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.011		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-21-SF** XDL - Great Wicomico River, UT (Big Fleets Pond)

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 011-190A, 8/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnation 011-190A, 8/15/2020

The Shellfish TMDL was approved by the EPA on 6/19/2009 and by the SWCB on 11/14/2009. The segment is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_XDL01A02 / XDL - Chesapeake Bay, UT (aka Big Fleets Pond) / As described in condemnation notice 011-190A, 8/15/2020. CB5MH	4A	Fecal Coliform	2002	L	0.018

XDL - Great Wicomico River, UT (Big Fleets Pond)

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.018		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality

Appendix 4 - Fact Sheets for Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-22-SF** Indian Creek and Pitman Cove

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-057A, 11/15/2020 (excludes administrative portion)

Cause City/County: Lancaster County; Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnations 016-057A, 11/15/2020 (excluding admin)

During the 1998 cycle, Pitmans Cove and Indian Creek were assessed as impaired of the Shellfish Consumption Use due to VDH-DSS condemnations 57A and 57C, 3/5/1997. The condemnations have since grown and shrunk several times. At their maximum extent (016-057A, 1/28/2005 and 12/13/2006), the condemnations had merged. The Shellfish TMDL was developed for this maximum extent and was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.

The condemnation shrunk and split again in the 2016 cycle and 0.0400 mi2 was partially delisted. Condemnation M2 extended upstream in the 2018 cycle and the segments were split. (VDH-DSS Condemnation 016-067A was entirely administratively condemned in the 2018 cycle and was not included.)

The condemnations merged again in the 2020 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_IND01A98 / Indian Creek / Portion of VDH-DSS condemnation notice 016-057A, 11/15/2020 that is not administratively condemned. CB5MH	4A	Fecal Coliform	1998	L	0.331

Indian Creek and Pitman Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.331		

Sources: Agriculture; Municipal Point Source Discharges; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-23-SF XUC - Dividing Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 015-022G, 6/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 015-022G, 6/15/2020

The cove was included on the 1998 303(d) list as impaired for the Shellfish Use due to condemnation 22B, 2/27/1997. The bacteria TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

However, the area was later reopened for harvest.

It was relisted in the 2020 cycle (Category 4A).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_XUC01A98 / XUC - Dividing Creek, UT / Described in the condemnation notice 015-022G, 6/15/2020. CB5MH	4A	Fecal Coliform	2020	L	0.013

XUC - Dividing Creek, UT

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.013		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-24-SF Dymer Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-024A, 11/15/2020 and portion of 016-024D, 11/15/2020 within mainstem Dymer Creek

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 016-024A, 11/15/2020 and portion of 016-024D, 11/15/2020 within mainstem Dymer Creek

The upper portion of Dymer Creek was included on the 1998 303(d) list due to VDH condemnation 24A, 3/5/1997. During the 2006 cycle, the condemnation expanded downstream into Chases Cove. However, during the 2008 cycle, the condemnations shrank and split into two separate condemnations - 016-024A Dymer Creek and 016-024F, Chases Cove. The Chases Cove impairment was addressed in fact sheet C01E-48-SF.

The Shellfish TMDL for Dymer Creek was developed during the 2010 cycle. The TMDL addressed the maximum extent of the condemnation, which occurred on 1/28/2005. The segment is considered Category 4A.

The impairment expanded in the 2020 cycle to address the portion of the Chases Cove condemnation that expanded into mainstem Dymer Creek.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_DYM01A98 / Dymer Creek / Described in VDH-DSS condemnation notice 016-024A, 11/15/2020 and portion of 016-024D, 11/15/2020 within mainstem Dymer Creek. CB5MH	4A	Fecal Coliform	1998	L	0.19

Dymer Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.19		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-25-SF Barnes Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-057B, 11/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 016-057B, 11/15/2020

Barnes Creek was impaired of the Shellfish Use during the 2008 cycle due to VDH-DSS Shellfish Condemnation Notice 016-057C, 12/13/2006. It was subsequently delisted, however, the TMDL was completed as part of the Indian Creek Shellfish TMDL, which was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.

A portion was relisted in the 2020 cycle (Category 4A.) It shrank in the 2022 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BRS01C20 / Barnes Creek / Described in VDH-DSS condemnation 016-057B, 11/15/2020. Shrank in the 2022 cycle. CB5MH	4A	Fecal Coliform	2020	L	0.062

Barnes Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.062		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-27-BAC** Tabbs Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-133A, 12/13/2006

Cause City/County: Lancaster County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2012 cycle, the upper portion of Tabbs Creek was impaired of the Recreation Use due to an enterococci exceedance rate of 2/12 at 7-TBS001.69.

The area is within the study area for the Tabbs Creek Shellfish Bacterial TMDL, which was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. Implementation of the TMDL is expected to cause attainment of the Recreation impairment; therefore, it is considered nested (Category 4A).

In the 2020 cycle, the size was corrected to match the shellfish TMDL.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_TBS01A98 / Tabbs Creek / Described in VDH-DSS condemnation notice 016-133A, 11/15/2020 Size reduced in the 2022 cycle. CB5MH	4A	Enterococcus	2012	L	0.180
VAP-C01E_TBS01B10 / Tabbs Creek / Portion of VDH-DSS condemnation notice 016-133A, 12/13/2006 seasonally condemned in 016-133, 11/15/2020. Split in the 2022 cycle. CB5MH	4A	Enterococcus	2020	L	0.025
VAP-C01E_TBS01C22 / Tabbs Creek / Portion of the condemnation notice 016-133A, 12/13/2006 open on 11/15/2020. CB5MH	4A	Enterococcus	2020	L	0.029

Tabbs Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.234		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-27-SF Tabbs Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-133A, 12/13/2006

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 016-133A and -133B, 11/15/2020

A portion of Tabbs Creek was impaired of the Shellfish Consumption Use during the 1998 cycle due to VDH-DSS Shellfish Condemnation Notice 133, 3/5/1997.

During the 2010 cycle, the TMDL was developed for the maximum extent (016-133A, 12/13/2006.). It was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.

The condemnation has expanded and contracted over multiple cycles. Open/seasonally condemned areas have been partially delisted (Category 2C). Condemned areas are considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_TBS01A98 / Tabbs Creek / Described in VDH-DSS condemnation notice 016-133A, 11/15/2020 Size reduced in the 2022 cycle. CB5MH	4A	Fecal Coliform	1998	L	0.18

Tabbs Creek

Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.18		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-28-SF **Antipoison Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 017-188A, 11/15/2020

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 017-188A, 11/15/2020

The upper portion of Antipoison Creek was included on the 1998 303(d) list due to condemnation 188, 6/3/1996. During the 2006 cycle the condemnation expanded considerably. However, during the 2008 cycle, the condemnation was reduced and split into 3 condemnations. As the lower sections were first impaired in the 2006 cycle, the TMDLs for those portions were due in 2018 and are addressed in fact sheets C01E-50-SF and C01E-51-SF.

The Shellfish TMDL for Antipoison Creek was developed for Antipoison Creek in its entirety to match the maximum extent of condemnation, which occurred on 7/13/2004. The condemned areas within Antipoison Creek shrunk during the 2010 cycle. The non-condemned waters are considered Category 2C. The condemned areas are considered Category 4A.

The condemnation has continued to vary in size.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_ANT01A98 / Antipoison Creek / Described in the condemnation notice 017-188A, 11/15/2020. Expanded in the 2022 cycle. CB5MH	4A	Fecal Coliform	1998	L	0.083

Antipoison Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.083		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-29-BAC** **Indian Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 016-057A, 12/13/2006

Cause City/County: Lancaster County; Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: In 2014, Indian Creek was assessed as not supporting for the Recreation Use due to an enterococci exceedance rate of 4/36 at station 7-IND002.26.

The bacterial TMDL for Indian Creek was developed by the DEQ and approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. Allocations were given to point and nonpoint sources. Indian Creek is considered a Category 4A water.

The exceedance rate was 5/35 in the 2020 cycle.

New bacteria criteria were implemented in the 2022 cycle. The segment remains impaired due to two or more STV exceedances in the same 90-day period with <10 samples.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_IND01A98 / Indian Creek / Portion of VDH-DSS condemnation notice 016-057A, 11/15/2020 that is not administratively condemned. CB5MH	4A	Enterococcus	2014	L	0.331
VAP-C01E_IND01B10 / Indian Creek / Administratively condemned portion of VDH-DSS condemnation notice 016-057A, 11/15/2020. CB5MH	4A	Enterococcus	2014	L	0.037
VAP-C01E_IND01C10 / Indian Creek / Portion of condemnation notice 016-057A, 12/13/2006 seasonally condemned on 11/15/2020. CB5MH	4A	Enterococcus	2014	L	0.042
VAP-C01E_IND02A98 / Indian Creek / Described in the condemnation notice 016-057E, 11/15/2020. CB5MH	4A	Enterococcus	2014	L	0.015

Indian Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.426		

Sources: Agriculture; Municipal Point Source Discharges; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-30-SF Dymer Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-024B, 12/30/2015

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation Notice 016-024D, 11/15/2020

The Shellfish TMDL for Dymer Creek was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.

The Chases Cove and Dymer Creek, UT condemnations merged in the 2020 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_CHA01A08 / Dymer Creek, UT / Described in condemnation notice 016-024B, 12/30/2015. CB5MH	4A	Fecal Coliform	2016	L	0.018

Dymer Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.018		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-31-SF Georges Cove

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-024B, 11/15/2020

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation notice 016-024B, 11/15/2020

A portion of Georges Cove was impaired of the Shellfish Use in the 1998 cycle due to VDH-DSS condemnation 024B, 3/5/1997. It was listed under the name “Dymer Creek”.

The condemnation had expanded during subsequent cycles. The Shellfish TMDL was developed during the 2010 cycle and was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. The TMDL addressed the maximum extent of the impairment, which was 1/28/2005. However, the condemnation was rescinded on 12/28/2007 and the area was reopened for harvest and Georges Cove was delisted (Category 2C).

A portion was relisted in the 2020 cycle. (Category 4A.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_GEO01B20 / Georges Cove / Described in condemnation notice 016-024B, 1/15/2020. CB5MH	4A	Fecal Coliform	2020	L	0.018

Georges Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.018		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-32-SF Lees Cove

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-024C, 1/28/2005

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation 016-024C, 11/15/2020

The TMDL for this portion of Lees Cove was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. It was later delisted.

It was relisted in the 2020 cycle (Category 4A.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_LEE01A02 / Lees Cove / As described in the condemnation notice 016-024C, 1/28/2005 CB5MH	4A	Fecal Coliform	2020	L	0.015

Lees Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.015		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-33-SF Betts Mill Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 013-089B, 6/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 013-089B, 6/15/2020

The condemnation shrank in the 2022 cycle and the lower portion is now seasonally condemned and will be partially delisted.

The impairment is nested within the Great Wicomico River Shellfish TMDL, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007. It is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BMC01A04 / Betts Mill Creek / Described in the VDH Shellfish Condemnation 013-089B, 6/15/2020. Split in the 2022 cycle. CB5MH	4A	Fecal Coliform	2004	L	0.048

Betts Mill Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.048		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-34-SF Lees Cove

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation Number 016-024C, 11/15/2020 not included in 016-024C, 1/28/2005.

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation 016-024C, 11/15/2020

The TMDL for an upstream portion of Lees Cove was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.

Lees Cove was relisted in the 2020 cycle. This portion is nested within the upstream TMDL (Category 4A.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_LEE02A12 / Lees Cove / Portion of VDH-DSS SFC 016-024C, 11/15/2020 not impaired in 016-024C, 1/28/2005. CB5MH	4A	Fecal Coliform	2020	L	0.01

Lees Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.01		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-36-SF Harpers Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 017-188E, 11/15/2020

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation 017-188E, 11/15/2020

The upper portion of Antipoison Creek was included on the 1998 303(d) list due to condemnation 188, 6/3/1996. During the 2006 cycle the condemnation expanded considerably. The Shellfish TMDL for Antipoison Creek was developed for Antipoison Creek in its entirety to match the maximum extent of condemnation, which occurred on 7/13/2004. It was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.

Harpers Creek was relisted in the 2020 cycle and is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_HAP01B10 / Harpers Creek / Described in VDH-DSS Condemnation 017-188E, 11/15/2020. CB5MH	4A	Fecal Coliform	2020	L	0.022

Harpers Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.022		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-40-SF Coles Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 013-089C, 6/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Number 013-089C, 6/15/2020

The impairment is nested within the Tipers Creek Shellfish TMDL. The TMDL was developed in the Great Wicomico River Watershed TMDL Report and was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_COL01A08 / Coles Creek / Described in VDH-DSS SFC 013-089C, 6/15/2020. CB5MH	4A	Fecal Coliform	2008	L	0.019

Coles Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.019		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-42-SF Jarvis Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 015-022C, 6/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 015-022C, 6/15/2020

The impairment is considered nested within the nearby Prentice Creek Shellfish TMDL, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007, and is Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_JAR01B08 / Jarvis Creek / As described in VDH-DSS condemnation 015-022C, 6/15/2020. CB5MH	4A	Fecal Coliform	2016	L	0.016

Jarvis Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.016		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-48-SF Chases Cove

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 016-024D, 12/30/2015

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation 016-024D, 11/15/2020

The upper portion of Dyer Creek was included on the 1998 303(d) list due to VDH condemnation 24A, 3/5/1997. During the 2006 cycle, the condemnation expanded downstream into Chases Cove. However, during the 2008 cycle, the condemnations shrank and split into two separate condemnations - 016-024A Dyer Creek and 016-024F, Chases Cove. Since Chases Cove was first impaired during the 2006 cycle, the TMDL was due in 2018.

The Shellfish TMDL for Dyer Creek (which included Chases Cove) was developed during the 2010 cycle. The TMDL addressed the maximum extent of the condemnation, which occurred on 1/28/2005.

The condemnation has subsequently shortened and split. The open area was partially delisted (Cat 2C).

The Chases Cove and Dyer Creek, UT condemnations merged and expanded into mainstem Dyer Creek in the 2020 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_CHA01B12 / Chases Cove / Described in VDH-DSS condemnation notice 016-024D, 12/30/2015 CB5MH	4A	Fecal Coliform	2006	L	0.023

Chases Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.023		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-50-SF Antipoison Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 017-188B, 11/15/2020

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 017-188B, 11/15/2020

The upper portion of Antipoison Creek was included on the 1998 303(d) list due to condemnation 188, 6/3/1996. During the 2006 cycle the condemnation expanded considerably. As the lower sections were first impaired in the 2006 cycle, the TMDLs for those portions were due in 2018 (also see C01E-51-SF).

The Shellfish TMDL for Antipoison Creek was developed for Antipoison Creek in its entirety to match the maximum extent of condemnation, which occurred on 7/13/2004. The condemned area is considered Category 4A.

It has vacillated in size.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_ANT01C08 / Antipoison Creek, UT / Described in VDH-DSS condemnation notice 017-188B, 11/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Fecal Coliform	2006	L	0.013

Antipoison Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.013		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-51-SF Antipoison Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 017-188C, 11/15/2020

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 017-188C, 11/15/2020

The upper portion of Antipoison Creek was included on the 1998 303(d) list due to condemnation 188, 6/3/1996. During the 2006 cycle the condemnation expanded considerably. As the lower sections were first impaired in the 2006 cycle, the TMDLs for those portions were due in 2018 (also see C01E-50-SF).

The Shellfish TMDL for Antipoison Creek was developed for Antipoison Creek in its entirety to match the maximum extent of condemnation, which occurred on 7/13/2004. The condemned areas are considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_ANT01B08 / Antipoison Creek, UT / Described in the condemnation notice 017-188C, 11/15/2020. CB5MH	4A	Fecal Coliform	2006	L	0.005

Antipoison Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.005		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-55-BAC **Head River Branch**

Cause Location: Tidal extent of Head River Branch downstream to mouth at Bush Mill Stream.

Cause City/County: Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2012 cycle, Head River Branch was impaired of the Recreation Use due to an enterococci exceedance rate of 7/12 at 7-HRB000.54, which is located at Route 642.

The area is within the study area for the Great Wicomico River Shellfish Bacterial TMDL, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007. The bacterial impairment is considered nested.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_HRB01A12 / Head River Branch / Tidal limit to mouth at Bush Mill Stream. CB5MH	4A	Enterococcus	2012	L	0.02

Head River Branch

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.02		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-59-BAC** **Dividing Creek and XDB - Dividing Creek, UT**

Cause Location: Tributary XDB and the Dividing Creek mainstem within VDH Condemnation Number 015-022A, 6/15/2020

Cause City/County: Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2012 cycle, upper tidal Dividing Creek was impaired of the Recreation Use due to an enterococci exceedance rate of 3/4 at 7-XDB000.08. The exceedance rate was 7/24 during the 2016 cycle.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

The area is within the study area for the Dividing Creek Shellfish Bacterial TMDL, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007. Implementation of the TMDL is expected to address the Recreation Use impairment; therefore, it is considered nested.

The size has been changed in multiple cycles to remain coincident with the shellfish condemnation.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_DIV01A98 / Dividing Creek / Described in VDH-DSS condemnation 015-022A, 6/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Enterococcus	2012	L	0.091

Dividing Creek and XDB - Dividing Creek, UT

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.091		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-64-BAC Bush Mill Stream

Cause Location: Tidal extent of Bush Mill Stream downstream to mouth at the Great Wicomico River.

Cause City/County: Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2012 cycle, Bush Mill Stream was impaired of the Recreation Use due to an enterococci exceedance rate of 4/12 at 7-BMS002.08, which is located at Route 201.

The area is within the study area for the Great Wicomico River Shellfish Bacterial TMDL, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007. The bacterial impairment is considered nested.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BMS01A12 / Bush Mill Stream / Tidal limit to mouth at Great Wicomico River CB5MH	4A	Enterococcus	2012	L	0.095

Bush Mill Stream

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.095		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-65-BAC Cockrell Creek

Cause Location: Upper Cockrell Creek as described in VDH-DSS condemnation 012-002B, 8/15/2020

Cause City/County: Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: New bacteria criteria were implemented in the 2022 cycle. Upper Cockrell Creek is impaired due to two or more enterococci STV exceedances in the same 90-day period with <10 samples at 7-COC001.61. The station is located at the dock at the end of Main Street in Reedville.

The Cockrell Creek Bacterial TMDL addressed Recreation Use impairments within condemned areas, therefore the impairment is considered Category 4A. The TMDL was approved by the EPA on 12/8/2009 and by the SWCB on 4/28/2009.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_COC01A98 / Cockrell Creek / As described in VDH-DSS Shellfish Condemnation 012-002B, 8/15/2020. CB5MH	4A	Enterococcus	2022	L	0.612

Cockrell Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.612		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-66-SF** Towles Creek

Cause Location: Described in VDH-DSS condemnation 014-123B, 6/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 014-123B, 6/15/2020

The Towles Creek shellfish impairment is proposed for nesting in the nearby Mill Creek Shellfish TMDL, which was approved by the EPA on 8/22/2007 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_TOW01A06 / Towles Creek / Described in VDH-DSS Shellfish Condemnation 014-123B, 6/15/2020. CB5MH	4A	Fecal Coliform	2022	L	0.027

Towles Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.027		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-67-SF Harveys Creek

Cause Location: Described in VDH-DSS condemnation 014-123C, 6/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 014-123C, 6/15/2020

The Harveys Creek shellfish impairment is proposed for nesting in the nearby Mill Creek Shellfish TMDL, which was approved by the EPA on 8/22/2007 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_HAV01A08 / Harveys Creek / Described in VDH Shellfish Condemnation 014-123C, 6/15/2020. CB5MH	4A	Fecal Coliform	2022	L	0.045

Harveys Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.045		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-68-SF Prentice Creek, UT

Cause Location: Described in VDH-DSS Condemnation 015-022F, 6/15/2020

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 015-022F, 6/15/2020

The UT was impaired in the 2022 cycle. It is proposed for nesting in the adjacent Prentice Creek, UT TMDL. The TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_PNT02C22 / Prentice Creek, UT / Described in VDH-DSS condemnation 015-022F, 6/15/2020 CB5MH	4A	Fecal Coliform	2022	L	0.004

Prentice Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.004		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C01E-69-SF** Jarvis Creek, UT

Cause Location: Described in VDH-DSS condemnation notice 015-022H, 6/15/2020.

Cause City/County: Northumberland County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 015-022H, 6/15/2020

The tributary was re-closed in the 2022 cycle. The impairment is proposed for nesting within the nearby Prentice Creek Shellfish TMDL, which was approved by the EPA on 6/8/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_JAR01A02 / Jarvis Creek, UT / Described in VDH-DSS condemnation notice 015-022H, 6/15/2020. CB5MH	4A	Fecal Coliform	2022	L	0.026

Jarvis Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.026		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-70-SF Long Creek

Cause Location: Described in VDH-DSS Condemnation 016-057D, 12/13/2006

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 016-057D, 11/15/2020

Long Creek was originally assessed as impaired of the Shellfish Consumption Use in the 2008 cycle due to VDH-DSS Shellfish Condemnation Number 016-057D, 12/13/2006. The TMDL was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. The condemnation was rescinded during the 2010 cycle; therefore Long Creek was delisted.

It was relisted in the 2022 cycle (Category 4A).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_LOC01A08 / Long Creek / Described in VDH condemnation 016-057D, 12/13/2006. CB5MH	4A	Fecal Coliform	2022	L	0.017

Long Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.017		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01E-71-SF **Hunts Cove**

Cause Location: Described in VDH-DSS Condemnation 016-024E, 11/15/2020

Cause City/County: Lancaster County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 016-024E, 11/15/2020

Hunts Cove was impaired of the Shellfish Consumption Use during the 2010 cycle due to VDH-DSS Shellfish Condemnation 016-057B, 12/13/2006. The TMDL was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. However, the condemnation was rescinded and was open for harvest on 12/28/2007; Hunts Cove was delisted.

It was relisted in the 2022 cycle (Category 4A).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_HNT01A98 / Hunts Cove / Described in the condemnation notice 016-024B, 1/28/2005. CB5MH	4A	Fecal Coliform	2022	L	0.04

Hunts Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.04		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01R-01-BAC **Crabbe Mill Stream**

Cause Location: The nontidal mainstem of Crabbe Mill Stream.

Cause City/County: Northumberland County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: During the 2012 cycle, Crabbe Mill Stream was impaired of the Recreation Use due to an E. coli exceedance rate of 2/12 at 7-CMS002.00, which is located at Route 201.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Although Crabbe Mill Stream is within the TMDL study area for the Great Wicomico River Shellfish Bacterial TMDL, there is a VPDES discharger which drains to the stream that was not addressed in the TMDL; therefore, the impairment cannot be nested.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01R_CMS01A00 / Crabbe Mill Stream / From its headwaters to the tidal limit.	5A	Escherichia coli (E. coli)	2012	L	3.91

Crabbe Mill Stream

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		3.91

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01R-01-DO Crabbe Mill Stream

Cause Location: The nontidal mainstem of Crabbe Mill Stream.

Cause City/County: Northumberland County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5C

Cause Description: During the 2012 cycle, Crabbe Mill Stream was impaired of the Aquatic Life Use due to a dissolved oxygen violation rate of 3/14 at 7-CMS002.00. Monitoring at 7-CMS000.12 was acceptable (1/17).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01R_CMS01A00 / Crabbe Mill Stream / From its headwaters to the tidal limit.	5C	Dissolved Oxygen	2012	L	3.91

Crabbe Mill Stream

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		3.91

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01R-01-PH **Crabbe Mill Stream**

Cause Location: The nontidal mainstem of Crabbe Mill Stream.

Cause City/County: Northumberland County

Use(s): Aquatic Life

Causes(s)/VA Category: pH/5C

Cause Description: During the 2012 cycle, Crabbe Mill Stream was impaired of the Aquatic Life Use due to pH violation rates of 2/17 at 7-CMS000.12 and 2/14 at 7-CMS002.00.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01R_CMS01A00 / Crabbe Mill Stream / From its headwaters to the tidal limit.	5C	pH	2012	L	3.91

Crabbe Mill Stream

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
pH - Total Impaired Size by Water Type:			3.91

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01R-02-BEN Dymer Creek

Cause Location: The nontidal mainstem of Dymer Creek

Cause City/County: Lancaster County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: During the 2014 cycle, nontidal Dymer Creek was impaired of the Aquatic Life Use due to an impacted benthic community at 7-DYM003.52, which is located at the Route 200 bridge.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01R_DYM01A14 / Dymer Creek / Headwaters to tidal limit	5A	Benthic Macroinvertebrates Bioassessments	2014	L	2.07

Dymer Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		2.07

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C02R-03-HG Dragon Swamp/Piankatank River

Cause Location: Dragon Swamp and the Piankatank River from the headwaters near the State Route 620 bridge downstream to Deep Point Boat Landing (Rt. 606) across from Piankatank Shores.

Cause City/County: Essex County; Gloucester County; King And Queen County; Middlesex County

Use(s): Fish Consumption

Causes(s)/VA Category: Mercury in Fish Tissue/5A

Cause Description: Dragon Swamp and the Piankatank River are considered impaired of the Fish Consumption Use.

A portion of this area was considered fully supporting but threatened in 2002 based on DEQ monitoring which has indicated elevated levels of mercury (see below). VDH subsequently issued a fish consumption advisory and the stream was downgraded to impaired.

In July 2005, VDH extended the Fish Consumption Advisory boundary to include the entire length of Dragon Swamp from the headwaters near Rt. 620 downstream to Deep Point Boat Landing. No more than two meals/month of largemouth bass are recommended.

Mercury exceedances at: 7-DRN003.40 7-DRN010.48 7-DRN015.09 7-DRN023.41 7-DRN001.43 7-PNK017.47 7-PNK020.42

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02E_DRN01A02 / Dragon Swamp / The tidal portion of Dragon Swamp to its mouth at the Piankatank River. PIAMH	5A	Mercury in Fish Tissue	2004	L	0.823
VAP-C02R_DRN01A98 / Dragon Swamp / From Route 602 (rm 15.08) to the tidal limit.	5A	Mercury in Fish Tissue	2006	L	12.370
VAP-C02R_DRN02A04 / Dragon Swamp / Headwaters near Route 620 to Exol Swamp. Merged in the 2022 cycle.	5A	Mercury in Fish Tissue	2006	L	15.240
VAP-C02R_DRN02B20 / Dragon Swamp / Exol Swamp to Route 602 (rm 15.08).	5A	Mercury in Fish Tissue	2006	L	4.360
VAP-C03E_HRP01A98 / Harper Creek / Described in the condemnation notice 076B, 6/10/1997. PIAMH	5A	Mercury in Fish Tissue	2008	L	0.062
VAP-C03E_PNK01A02 / Piankatank River / Downstream limit of VDH-DSS condemnation SFC 035-076A, 6/10/1997 to Deep Point Boat Landing. PIAMH	5A	Mercury in Fish Tissue	2004	L	0.558
VAP-C03E_PNK01A98 / Piankatank River / Watershed limit (start of Piankatank River) downstream to limit of SFC 035-076A, 6/10/1997. PIAMH	5A	Mercury in Fish Tissue	2004	L	1.280

Dragon Swamp/Piankatank River

Fish Consumption

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Mercury in Fish Tissue - Total Impaired Size by Water Type:	2.722		31.97

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Sources: Atmospheric Deposition - Toxics; Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C02R-04-BAC Exol Swamp

Cause Location: Exol Swamp from its perennial headwaters to mouth at Dragon Swamp

Cause City/County: King And Queen County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: During the 2016 cycle, Exol Swamp was impaired of the Recreation Use due to an E. coli exceedance rate of 2/12 at 7-EXE000.81, which is located at the Route 614 bridge.

Exol Swamp is located within the study area for the Upper Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the 3/23/2007. As the TMDL sets bacteria reductions for the watershed, the Recreation Use impairment is considered nested (Category 4A.)

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02R_EXE01A06 / Exol Swamp / Perennial headwaters downstream to mouth at Dragon Swamp.	4A	Escherichia coli (E. coli)	2016	L	11.35

Exol Swamp

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		11.35

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C02R-11-BAC XFB - Dragon Swamp, UT

Cause Location: Headwaters to mouth at Dragon Swamp

Cause City/County: Middlesex County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: During the 2018 cycle, the tributary was impaired of the Recreation Use due to an E. coli exceedance rate of 6/11 at 7-XFB000.13, which is located at Route 603.

The stream is located within the study area for the Upper Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the 3/23/2007. As the TMDL sets bacteria reductions for the watershed, the Recreation Use impairment is considered nested (Category 4A.)

New bacteria criteria were implemented in the 2022 cycle. No new data were collected, but re-analysis of the previous data confirms that the segment remains impaired due to two or more STV exceedances in the same 90-day period with <10 samples.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02R_XFB01A18 / XFB - Dragon Swamp, UT / Headwaters to mouth at Dragon Swamp	4A	Escherichia coli (E. coli)	2018	L	1.47

XFB - Dragon Swamp, UT

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.47

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C02R-12-BAC Dragon Swamp

Cause Location: Dragon Swamp from the confluence with Exol Swamp downstream to the Route 602 bridge.

Cause City/County: King And Queen County; Middlesex County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: During the 2020 cycle, Dragon Swamp from Exol Swamp to Route 602 was impaired of the Recreation Use due to an E. coli exceedance rate of 2/12 at 7-DRN015.51 (Route 602.)

Dragon Swamp is located within the study area for the Upper Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the 3/23/2007. As the TMDL sets bacteria reductions for the watershed, the Recreation Use impairment is considered nested (Category 4A.)

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02R_DRN02B20 / Dragon Swamp / Exol Swamp to Route 602 (rm 15.08).	4A	Escherichia coli (E. coli)	2020	L	4.36

Dragon Swamp

Recreation

Estuary (Sq. Miles) Reservoir (Acres) River (Miles)
 Escherichia coli (E. coli) - Total Impaired Size by Water Type: 4.36

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-01-BAC Harpers Creek

Cause Location: Tidal limit to downstream extent of VDH-DSS condemnation 076B, 6/10/1997

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2010 cycle, tidal Harpers Creek was assessed as not supporting of the Recreation Use due to a enterococci exceedance rate of 7/10 at 7-HRP001.15, which is located at Rt. 198.

This impairment is considered nested within the area addressed by the Upper Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_HRP01A98 / Harper Creek / Described in the condemnation notice 076B, 6/10/1997. PIAMH	4A	Enterococcus	2010	L	0.062

Harpers Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.062		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-02-SF Piankatank River / Harpers Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnations 076A and 076B, 6/10/1997.

Cause City/County: Gloucester County; Middlesex County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnations 035-076A and -076E, 2/15/2020

During the 1998 cycle, the tidal Piankatank River above Anderson Point and Harpers Creek were included on the 303(d) list due to VDH condemnations 76A and 76B (6/10/1997), respectively.

The Upper Piankatank River Shellfish TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

The condemnations have vacillated in size. It shrank and split in the 2020 cycle and they now match the extent of the 1997 condemnations.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02E_DRN01A02 / Dragon Swamp / The tidal portion of Dragon Swamp to its mouth at the Piankatank River. PIAMH	4A	Fecal Coliform	1998	L	0.823
VAP-C03E_HRP01A98 / Harper Creek / Described in the condemnation notice 076B, 6/10/1997. PIAMH	4A	Fecal Coliform	1998	L	0.062
VAP-C03E_PNK01A98 / Piankatank River / Watershed limit (start of Piankatank River) downstream to limit of SFC 035-076A, 6/10/1997. PIAMH	4A	Fecal Coliform	1998	L	1.280

Piankatank River / Harpers Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	2.164		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-03-SF Frenchs Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 035-076D, 2/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnation 035-076D, 2/15/2020

Frenchs Creek was initially listed as impaired of the Shellfish Consumption Use during the 2002 cycle based on VDH-DSS Shellfish Condemnation Notice 076B, 6/6/2000.

Frenchs Creek is nested within the Upper Piankatank River (Harper Creek) Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_FRE01A02 / Frenchs Creek / As described in the condemnation notice 035-076D, 2/15/2020. PIAMH	4A	Fecal Coliform	2002	L	0.01

Frenchs Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.01		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-04-BAC **Ferry Creek**

Cause Location: The tidal portion of Ferry Creek.

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2010 cycle, Ferry Creek was assessed as impaired of the Recreation Use due to an enterococci exceedance rate of 2/10 at 7-FER000.92, which is located at a private dock off of Route 608.

The impairment is nested in the Upper Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Segment adjusted in the 2020 cycle to represent that the entire portion of Ferry Creek is impaired.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_FER01A98 / Ferry Creek / Described in VDH-DSS condemnation notice 035-076B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	4A	Enterococcus	2010	L	0.010
VAP-C03E_FER01B20 / Ferry Creek / Portion of Ferry Creek that is not closed for oyster harvest. Expanded in the 2022 cycle. PIAMH	4A	Enterococcus	2010	L	0.115

Ferry Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.124		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-04-SF **Ferry Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 035-076B, 2/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notices 035-076B, 2/15/2020

It is nested in the upstream Upper Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

The condemnation shrank and split in the 2020 cycle (035-076B and -076F, 12/28/2018). A portion is now seasonally condemned and was delisted (Category 2B.)

The condemned area shrank further in the 2022 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_FER01A98 / Ferry Creek / Described in VDH-DSS condemnation notice 035-076B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	4A	Fecal Coliform	2014	L	0.01

Ferry Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.01		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-05-SF **Wilton Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 034-126, 3/2/1993

Cause City/County: Middlesex County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 034-126A, 12/15/2020

This segment was originally listed in 1998 as not supporting for the Shellfish Use based on VDH-DSS Shellfish Condemnation 126, 3/2/1993. The “Piankatank River, Lower Watershed TMDL Report for Shellfish Condemnation Areas Listed Due to Bacteria Contamination” was approved by the EPA on 11/15/2005 and by the SWCB on 9/27/2006.

The condemnation shrank in the 2020 cycle and a portion converted to seasonally condemned (034-126S109, 12/28/2018). It was partially delisted (Category 2C/2B.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_WLT01A98 / Wilton Creek / Described in the condemnation notice 034-126A, 12/15/2020. PIAMH	4A	Fecal Coliform	1998	L	0.111

Wilton Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.111		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-06-SF Healy Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 034-208A, 12/15/2020

Cause City/County: Middlesex County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 034-208A, 12/15/2020

The upper portion of Healy Creek was originally listed in 1998 as not supporting for the Shellfish Use based on VDH-DSS Shellfish Condemnation 129, 3/3/1997. The Piankatank River, Lower Watershed TMDL Report was approved by the EPA on 11/15/2005 and by the SWCB on 9/27/2006.

The condemnation expanded in the 2016 cycle.

In the 2020 cycle, the condemnation shrank a portion converted to seasonally condemned (034-208S67, 12/28/2018). It was partially delisted (Category 2C/2B.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_HEA01A02 / Healy Creek / Described in VDH-DSS Shellfish Condemnation Notice 034-208A, 12/15/2020. PIAMH	4A	Fecal Coliform	1998	L	0.047

Healy Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.047		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C03E-10-EBEN** **Piankatank River**

Cause Location: Piankatank River Mesohaline Estuary

Cause City/County: Gloucester County; Mathews County; Middlesex County

Use(s): Aquatic Life

Causes(s)/VA Category: Estuarine Bioassessments/5A

Cause Description: During the 2006 cycle, the Piankatank River from Pond Point to just upstream of Iron Point was impaired of the Aquatic Life Use based on information collected from the Coastal 2000 station 7-PNK005.20 in 2003.

During the 2008 cycle, Coastal 2000 monitoring in 2004 at station 7-PNK005.35 also indicated benthic impairment. In addition, estuarine probabilistic monitoring was conducted at Coastal 2000 station 7-PNK010.41. The data was assessed by DEQ’s Central Office staff who considered the area around Berkley Island as impaired due to alteration of the benthic community (C03E-14-EBEN due 2020).

During the 2014 cycle, the entire mainstem Piankatank River/Dragon Swamp was impaired of the Aquatic Life Use based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was expanded. The TMDL due date is 2018 to reflect the earliest benthic impairment within the segment.

In addition, 2011 monitoring at Coastal 2000 station 7BPNK003.14 indicated benthic impairment. There is a high potential of chronic effects due to sediment PAHs.

During the 2016 cycle, benthic impairment was noted at Coastal 2000 estuarine probabilistic monitoring station 7BPNK016.89 (Category 5A, scenario 8 (“cause = water quality”).)

The mainstem continued to fail the Chesapeake Bay B-IBI in the 2020 cycle. In addition, 2017 Coastal 2000 station 7BMLF004.09 was also impaired in the 2020 cycle.

In the 2022 cycle, weight-of-evidence analysis at the following estuarine probabilistic monitoring stations also indicated impairment. 7-PNK003.72 (2019 - Cat 5A scenario 8) 7-XFH000.08 (2020 - Cat 5A scenario 8)

In addition, during the 2018 cycle, lower Edwards Creek was impaired of the Aquatic Life Use due to a slightly altered benthic community during a one-time sampling event at Coastal 2000 probabilistic monitoring station 7BEDW000.25 (C04E-06-EBEN). However, in the 2022 cycle, the impairment was moved under C03E-10-EBEN. In the 2022 cycle it was determined that the B-IBI segment should include the tributaries. As the Edwards Creek sample was used in the segment-wide determination and the impairment is due to scenario 8 (water quality), versus a local sediment contamination issue, these impairments were combined.

There is insufficient information to assess the B-IBI in the 2022 cycle; therefore, the impairment will be carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02E_DRN01A02 / Dragon Swamp / The tidal portion of Dragon Swamp to its mouth at the Piankatank River. PIAMH	5A	Estuarine Bioassessments	2014	L	0.823
VAP-C03E_COB02B20 / Cobbs Creek / Described in VDH-DSS condemnation 034-126S70, 12/15/2020. Expanded slightly in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.043
VAP-C03E_COB02C10 / Cobbs Creek / Described in VDH-DSS condemnation 034-126B, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.049

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_COR01A08 / Cores Creek / Described in VDH-DSS condemnation 034-208D, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.018
VAP-C03E_DAN01A08 / Dancing Creek / Described in VDH condemnation 025-076C, 2/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.034
VAP-C03E_FER01A98 / Ferry Creek / Described in VDH-DSS condemnation notice 035-076B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.010
VAP-C03E_FER01B20 / Ferry Creek / Portion of Ferry Creek that is not closed for oyster harvest. Expanded in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.115
VAP-C03E_FRE01A02 / Frenchs Creek / As described in the condemnation notice 035-076D, 2/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.010
VAP-C03E_HEA01A02 / Healy Creek / Described in VDH-DSS Shellfish Condemnation Notice 034-208A, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.047
VAP-C03E_HEA01B20 / Healy Creek / Described in VDH-DSS Shellfish Condemnation Notice 034-208S67, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.024
VAP-C03E_HRP01A98 / Harper Creek / Described in the condemnation notice 076B, 6/10/1997. PIAMH	5A	Estuarine Bioassessments	2022	L	0.062
VAP-C03E_JCK01A98 / Jackson Creek / Described in VDH-DSS condemnation notice 84A, 11/1/1996. PIAMH	5A	Estuarine Bioassessments	2022	L	0.019
VAP-C03E_JCK01B08 / Jackson Creek / Described in VDH-DSS condemnation notice 084B, 11/1/1996. PIAMH	5A	Estuarine Bioassessments	2022	L	0.015
VAP-C03E_JCK01C08 / Jackson Creek / Mainstem portion of condemnation notice 033-084A, 12/11/2018 not included in 84A, 11/1/1996. PIAMH	5A	Estuarine Bioassessments	2022	L	0.030
VAP-C03E_JCK01C14 / Jackson Creek, UT / Described in VDH-DSS condemnation notice 033-084B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.014
VAP-C03E_JCK02A20 / Jackson Creek / Portion of VDH-DSS condemnation notice 033-084D, 12/11/2018 not included in 084B, 11/1/1996. PIAMH	5A	Estuarine Bioassessments	2022	L	0.032

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_JCK02B16 / Jackson Creek / Described in VDH-DSS condemnation notice 033-084E, 11/12/2014. PIAMH	5A	Estuarine Bioassessments	2022	L	0.011
VAP-C03E_JCK02C10 / Jackson Creek / Portion of VDH-DSS condemnation notice 033-084M1, 2/15/2020 not included in 033-084A, -B, or -D, 12/11/2018. Segment expanded in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.171
VAP-C03E_JCK03C10 / Jackson Creek / Described in VDH-DSS condemnation notice 033-084B, 12/11/2018. PIAMH	5A	Estuarine Bioassessments	2022	L	0.013
VAP-C03E_MRE01A02 / Moore Creek / As described in the condemnation notice 034-208C, 12/15/2020. Split in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.034
VAP-C03E_MRE01B22 / Moore Creek / As described in the condemnation notice 034-208S69, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.035
VAP-C03E_PNK01A02 / Piankatank River / Downstream limit of VDH-DSS condemnation SFC 035-076A, 6/10/1997 to Deep Point Boat Landing. PIAMH	5A	Estuarine Bioassessments	2014	L	0.558
VAP-C03E_PNK01A98 / Piankatank River / Watershed limit (start of Piankatank River) downstream to limit of SFC 035-076A, 6/10/1997. PIAMH	5A	Estuarine Bioassessments	2014	L	1.280
VAP-C03E_PNK02A00 / Piankatank River / Mainstem Piankatank from end of 035-076S65, 2/15/2020 downstream to PNK03A00, excluding the Berkley Island area. Size reduced in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2014	L	3.355
VAP-C03E_PNK02B08 / Piankatank River / Bend around Berkley Island PIAMH	5A	Estuarine Bioassessments	2008	L	0.785
VAP-C03E_PNK02C20 / Piankatank River / Mainstem Piankatank from Deep Point Landing downstream to the boundary of 035-076S65, 2/15/2020. PIAMH	5A	Estuarine Bioassessments	2014	L	1.210
VAP-C03E_PNK03A00 / Piankatank River / One-half mile radius around monitoring station 7-PNK005.36 on the Piankatank River between Pond Point and Iron Point. PIAMH	5A	Estuarine Bioassessments	2006	L	1.167

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_PNK04A00 / Piankatank River / Mainstem Piankatank River from PNK03A00 downstream to the point at Fishing Bay. PIAMH	5A	Estuarine Bioassessments	2014	L	3.528
VAP-C03E_PNK04B06 / Piankatank River / As described in VDH-DSS SFC 034-208M1, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2014	L	0.040
VAP-C03E_PNK04C06 / Piankatank River - Fishing Bay / As described in VDH-DSS SFC 034-208 M2, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2014	L	0.085
VAP-C03E_PNK04D08 / Porpoise Cove / As described in VDH-DSS SFC 034-208B, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.011
VAP-C03E_PNK05A02 / Piankatank River / Piankatank River downstream of Fishing Bay at Stove Point to mouth at Chesapeake Bay PIAMH	5A	Estuarine Bioassessments	2014	L	4.949
VAP-C03E_PNK07B08 / Piankatank River, UT / Described in VDH-DSS SFC 034-126S71, 12/28/2018. PIAMH	5A	Estuarine Bioassessments	2022	L	0.007
VAP-C03E_PNK08B08 / Piankatank River, UT / Described in VDH-DSS SFC 034-126S72, 12/28/2018 PIAMH	5A	Estuarine Bioassessments	2022	L	0.003
VAP-C03E_WLT01A98 / Wilton Creek / Described in the condemnation notice 034-126A, 12/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.111
VAP-C03E_WLT01B20 / Wilton Creek / Portion of VDH-DSS condemnation 126, 3/2/1993 that is not condemned. PIAMH	5A	Estuarine Bioassessments	2022	L	0.023
VAP-C03E_ZZZ01B14 / Unsegmented estuaries in C03 / Unsegmented portion of watershed CB11. PIAMH	5A	Estuarine Bioassessments	2022	L	0.146
VAP-C04E_BLL01A16 / Billups Creek / Portion of VDH-DSS condemnation notice 204, 4/4/1997 seasonally condemned on 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.002
VAP-C04E_BLL01A98 / Billups Creek / Portion of VDH-DSS condemnation notice 204, 4/4/1997 closed on 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.044
VAP-C04E_BLL02A16 / Billups Creek / Billups Creek not otherwise segmented. Size reduced in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.185

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BLL02B20 / Billups Creek / Portion of VDH-DSS condemnation 037-061B, 4/15/2020 open on 4/4/1997. PIAMH	5A	Estuarine Bioassessments	2022	L	0.006
VAP-C04E_BLL02C12 / Billups Creek / Portion of VDH-DSS condemnation 037-061S129, 4/15/2020 open in 204, 4/4/1997. Size increased in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.137
VAP-C04E_BRN01A04 / Barn Creek / Described in VDH-DSS condemnation notice 036-197C, 3/15/2019. Split in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.021
VAP-C04E_BRN02A22 / Barn Creek / Described in VDH-DSS condemnation notice 036-197S126, 3/15/2019. PIAMH	5A	Estuarine Bioassessments	2022	L	0.026
VAP-C04E_EDW01B18 / Edwards Creek / Described in VDH condemnation notice 197A, 1/21/1997. PIAMH	5A	Estuarine Bioassessments	2022	L	0.027
VAP-C04E_EDW02A98 / Edwards Creek / Portion of VDH-DSS condemnation notice 036-197B, 1/21/1997 open 3/15/2019. PIAMH	5A	Estuarine Bioassessments	2018	L	0.041
VAP-C04E_EDW02B20 / Edwards Creek / Portion of VDH-DSS condemnation notice 036-197D, 3/15/2019 not included in 197B, 1/21/1997. PIAMH	5A	Estuarine Bioassessments	2018	L	0.006
VAP-C04E_HKC01A08 / Hickorynut Cove / Tidal limit to mouth at Milford Haven PIAMH	5A	Estuarine Bioassessments	2022	L	0.023
VAP-C04E_HUD01A08 / Hudgins Creek / Described in VDH-DSS Condemnation 037-061D, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.016
VAP-C04E_LAN01A02 / Lanes Creek / As described in VDH-DSS condemnation notice 037-099C, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.020
VAP-C04E_LAN01B08 / Lanes Creek, UT / Described in VDH Shellfish Condemnation 037-099E, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.002
VAP-C04E_LAN02A22 / Lanes Creek / Described in VDH-DSS Condemnation 037-099S127, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.054

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_MID01A02 / Winder Creek / As described in the condemnation notice 037-099B, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.025
VAP-C04E_MLF01A98 / Milford Haven / Described in the condemnation notice 036-197A, 3/15/2019. PIAMH	5A	Estuarine Bioassessments	2022	L	0.029
VAP-C04E_MLF02A98 / Milford Haven / Described in the condemnation notice 036-197E, 3/15/2019 PIAMH	5A	Estuarine Bioassessments	2022	L	0.030
VAP-C04E_MLF03A00 / Milford Haven / Downstream of SFC 036-197, 3/15/2019 except as otherwise segmented. PIAMH	5A	Estuarine Bioassessments	2022	L	1.411
VAP-C04E_MLF04A06 / Milford Haven / Hills Bay PIAMH	5A	Estuarine Bioassessments	2014	L	2.283
VAP-C04E_MLF05A06 / Milford Haven / Described in VDH-DSS condemnation 036-197M1, 3/15/2019. PIAMH	5A	Estuarine Bioassessments	2022	L	0.041
VAP-C04E_MRC01A98 / Morris Creek / Described in VDH-DSS condemnation notice 61B, 4/4/1997. PIAMH	5A	Estuarine Bioassessments	2022	L	0.034
VAP-C04E_QUE01A98 / Queens Creek / Portion of VDH-DSS condemnation 99A, 4/9/1977 within 037-099A and -D, 4/15/2020. Split in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.094
VAP-C04E_QUE01B10 / Queens Creek / Described in VDH-DSS condemnation notice 037-099M1, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.031
VAP-C04E_QUE01C10 / Queens Creek / Below condemnation notice 99A, 4/7/1997, unless otherwise segmented. PIAMH	5A	Estuarine Bioassessments	2022	L	0.068
VAP-C04E_QUE01D22 / Queens Creek / Portion of VDH-DSS condemnation notice 99A, 4/9/1997 within 037-099S132, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.068
VAP-C04E_QUE02A12 / Queens Creek, UT / Described in VDH-DSS condemnation 037-099S169, 4/15/2020. Size reduced in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.011
VAP-C04E_STO01A08 / Stoakes Creek / Described in VDH Shellfish Condemnation 037-061M1, 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.006

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_STO01B14 / Stoakes Creek / Tidal limit to mouth unless otherwise segmented. PIAMH	5A	Estuarine Bioassessments	2022	L	0.292
VAP-C04E_STT01A98 / Stutts Creek / Described in VDH-DSS condemnation notice 037-061A, 4/15/2020. Split in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.074
VAP-C04E_STT01B06 / Stutts Creek, UT (Hole in the Wall) / Described in VDH-DSS condemnation 037-061S130, 4/15/2020. Expanded in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.038
VAP-C04E_STT01B10 / Stutts Creek/Morris Creek / Portion of VDH condemnation notice 037-061C, 4/15/2020 not condemned on 4/4/1997. PIAMH	5A	Estuarine Bioassessments	2022	L	0.045
VAP-C04E_STT01C14 / Stutts Creek / Described in VDH-DSS condemnation notice 037-061S128, 4/15/2020 excluding areas in 037-061D, 2/21/2017 and 61A, 4/4/1997. Merged and expanded in the 2022 cycle. PIAMH	5A	Estuarine Bioassessments	2022	L	0.109
VAP-C04E_STT01D22 / Stutts Creek / Portion of VDH-DSS condemnation 061A, 4/4/1997 seasonally condemned on 4/15/2020. PIAMH	5A	Estuarine Bioassessments	2022	L	0.016
VAP-C04E_STT02A00 / Stutts Creek / Downstream limit of condemnation to Fanneys Point, except as otherwise segmented. PIAMH	5A	Estuarine Bioassessments	2022	L	0.229
VAP-C04E_STT02B20 / Stutts Creek, UT / Described in VDH-DSS condemnation 037-061D, 2/21/2017. PIAMH	5A	Estuarine Bioassessments	2022	L	0.009
VAP-C04E_STT05A10 / Stutts Creek (Hole in the Wall) / From Point Breeze downstream to its mouth at the Chesapeake Bay. PIAMH	5A	Estuarine Bioassessments	2022	L	1.037
VAP-C04E_WHA01A06 / Wharf Creek / Described in VDH-DSS SFC 036-197M2, 3/15/2019. PIAMH	5A	Estuarine Bioassessments	2022	L	0.018
VAP-C04E_WHI01A08 / Whites Creek / Whites Creek around Festival Beach PIAMH	5A	Estuarine Bioassessments	2022	L	0.074
VAP-C04E_WHI01B12 / Whites Creek / Stutts Creek to Festival Beach PIAMH	5A	Estuarine Bioassessments	2022	L	0.243

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_XFE01A16 / XFE - Piankatank River, UT (aka Kibble Pond) / Described in VDH-DSS condemnation 036-197B, 3/15/2019. PIAMH	5A	Estuarine Bioassessments	2022	L	0.016
VAP-C04E_ZZZ01A00 / Unsegmented estuaries in C04 / Unsegmented portion of the watershed within PIAMH	5A	Estuarine Bioassessments	2022	L	0.664

Piankatank River

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Estuarine Bioassessments - Total Impaired Size by Water Type:	26.467		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Natural Conditions - Water Quality Standards Use Attainability Analyses Needed; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-12-SF Cobbs Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 034-126B, 12/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 034-126B, 12/15/2020

The Piankatank River Lower Watershed TMDL Report for Shellfish Condemnation Areas Listed due to Bacteria Contamination was approved by the EPA on 11/15/2005 and by the SWCB on 9/27/2006. The TMDL addressed all of Cobbs Creek.

The condemnation expanded in the 2016 cycle.

It shrank in the 2020 cycle and a portion is now seasonally condemned (034-126S70, 12/28/2018). It was partially delisted (Category 2C/2B.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_COB02C10 / Cobbs Creek / Described in VDH-DSS condemnation 034-126B, 12/15/2020. PIAMH	4A	Fecal Coliform	2014	L	0.049

Cobbs Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.049		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-13-SF Jackson Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 033-084B, 2/15/2020

Cause City/County: Middlesex County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation Notice 033-084B, 2/15/2020

The impairment is nested within the neighboring Jackson Creek Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 6/27/2007. It is considered Category 4A.

It has varied in size.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_JCK01C14 / Jackson Creek, UT / Described in VDH-DSS condemnation notice 033-084B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	4A	Fecal Coliform	2014	L	0.014

Jackson Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.014		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C03E-15-SF** Dancing Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 035-076C, 2/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 035-076C, 2/15/2020

It is nested in the upstream Piankatank River and Harper Creek Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_DAN01A08 / Dancing Creek / Described in VDH condemnation 025-076C, 2/15/2020 PIAMH	4A	Fecal Coliform	2008	L	0.034

Dancing Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.034		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-16-BAC Piankatank River

Cause Location: Piankatank River's bend around Berkley Island

Cause City/County: Middlesex County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2014 cycle, the Piankatank River around Berkley Island was impaired of the Recreation Use due to an enterococci exceedance rate of 4/12 at 7-PNK010.39, which is located at the end of Route 630.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

The impairment is proposed for nesting in the upstream Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_PNK02B08 / Piankatank River / Bend around Berkley Island PIAMH	4A	Enterococcus	2014	L	0.785

Piankatank River

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.785		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-17-BAC Piankatank River

Cause Location: One-half mile radius around monitoring station 7-PNK005.36 on the Piankatank River between Pond Point and Iron Point.

Cause City/County: Mathews County; Middlesex County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2016 cycle, the segment was impaired of the Recreation Use due to an enterococci exceedance rate of 2/11 at 7-PNK05.78, which is located at the Route 630 boat ramp.

There is insufficient information to assess the B-IBI in the 2022 cycle; therefore, the impairment will be carried over.

The impairment is proposed for nesting in the upstream Piankatank River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_PNK03A00 / Piankatank River / One-half mile radius around monitoring station 7-PNK005.36 on the Piankatank River between Pond Point and Iron Point. PIAMH	4A	Enterococcus	2016	L	1.167

Piankatank River

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	1.167		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-18-SF Cores Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 034-208D, 12/15/2020

Cause City/County: Middlesex County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation 035-208D, 12/15/2020

It is nested within the neighboring Healy Creek TMDL, which was addressed in the report “Piankatank River, Lower Watershed TMDL Report for Shellfish Condemnation Areas Listed Due to Bacteria Contamination.” The TMDL was approved by the EPA on 11/15/2005 and by the SWCB on 9/7/2006.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_COR01A08 / Cores Creek / Described in VDH-DSS condemnation 034-208D, 12/15/2020. PIAMH	4A	Fecal Coliform	2014	L	0.018

Cores Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.018		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-19-SF Porpoise Cove

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 034-208B, 12/15/2020

Cause City/County: Middlesex County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation Notice 034-208B, 12/15/2020

The Porpoise Cove shellfish use impairment is nested within the nearby Healy Creek TMDL, which was addressed in the report “Piankatank River, Lower Watershed TMDL Report for Shellfish Condemnation Areas Listed Due to Bacteria Contamination”. The TMDL was approved by the EPA on 11/15/2005 and by the SWCB on 9/27/2006.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_PNK04D08 / Porpoise Cove / As described in VDH-DSS SFC 034-208B, 12/15/2020. PIAMH	4A	Fecal Coliform	2008	L	0.011

Porpoise Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.011		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-22-SF Jackson Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 034-126A, 2/15/2020.

Cause City/County: Middlesex County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 034-126A, 2/15/2020

The UT is closed due for shellfish harvesting. The impairment is nested in the Jackson Creek Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 6/27/2007.

In the 2020 cycle, the condemnation merged with the Jackson Creek condemnation (033-084E, 11/12/2014).

It split again in the 2022 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_JCK02B16 / Jackson Creek / Described in VDH-DSS condemnation notice 033-084E, 11/12/2014. PIAMH	4A	Fecal Coliform	2016	L	0.011

Jackson Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.011		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-24-PH Dragon Swamp

Cause Location: The tidal portion of Dragon Swamp.

Cause City/County: Gloucester County; Middlesex County

Use(s): Aquatic Life

Causes(s)/VA Category: pH/5C

Cause Description: During the 2022 cycle, tidal Dragon Swamp was impaired of the Aquatic Life Use due to a pH exceedance rate of 2/12 at Chesapeake Bay Governor's School station 7-DRN-DR9-CBGS. Natural conditions are suspected as the area feeding the watershed is largely Class VII swampwaters.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02E_DRN01A02 / Dragon Swamp / The tidal portion of Dragon Swamp to its mouth at the Piankatank River. PIAMH	5C	pH	2022	L	0.823

Dragon Swamp

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
pH - Total Impaired Size by Water Type:	0.823		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Natural Conditions - Water Quality Standards Use Attainability Analyses Needed; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality

Appendix 4 - Fact Sheets for Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-01-SF **Queens Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 99A, 4/9/1997.

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnations 037-099A and -D, 4/15/2020 VDH-DSS condemnation 037-099S132C, 4/15/2020

A portion of Queens Creek was assessed as impaired of the Shellfish Use during the 1998 cycle due to condemnation 99A, 4/9/1997. The Shellfish TMDL for Queens Creek was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

During several assessment cycles the condemned area has expanded and contracted. In the 2020 cycle, it matched the 1997 condemnation. In the 2022 cycle, it shrank and split. The condemned areas are considered Category 4A; the seasonal area will be partially delisted (Category 2C).

Note: During the 2012 cycle, it was determined that the TMDL addressed a smaller segment than previously believed. The Queens Creek mainstem impairment 037-099A, 131/2014 is now smaller than the 1998 impairment and is considered Category 4A/2C. 0.0838 mi2 was partially delisted.

The expansion on Queens Creek was corrected to remove the TMDL. Condemnation 037-099C, 1/28/2010 on Queens Creek, UT is located outside of the TMDL study area. The was due in 2014 since the condemnation first expanded in the 2002 cycle (see C04E-01-SF2)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_QUE01A98 / Queens Creek / Portion of VDH-DSS condemnation 99A, 4/9/1977 within 037-099A and -D, 4/15/2020. Split in the 2022 cycle. PIAMH	4A	Fecal Coliform	1998	L	0.094

Queens Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.094		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-03-SF Edwards Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 197A, 1/21/1997

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation 036-197D, 3/15/2019

A portion of Edwards Creek was included on the 1998 303(d) list due to VDH condemnation 197A, 1/21/1997. The TMDL was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

During the 2016 cycle, Edwards Creek was open or seasonally condemned (036-197, 1/31/2014); therefore, the impairment was delisted.

The upper portion was relisted in 2018 (Category 4A).

The condemnation expanded in the 2020 cycle and now extends past the TMDL extent. The expansion is addressed in fact sheet C04E-34-SF.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EDW01B18 / Edwards Creek / Described in VDH condemnation notice 197A, 1/21/1997. PIAMH	4A	Fecal Coliform	2018	L	0.027

Edwards Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.027		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-04-SF Put In Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 5B, 6/5/1996

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS SFC Number 041-005A, 10/15/2019

Due to the presence of the HRSD Mathews Courthouse WWTP, the upper portion of Put In Creek was previously listed as prohibited and then switched to administratively condemned in 2014 cycle. The Shellfish Use was considered removed.

A shellfish TMDL has been completed for the downstream condemnation on Put In Creek (C04E-14-SF); the TMDL was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009. The WWTP has since been terminated and the area was condemned in the 2016 cycle. The impairment is considered nested in the downstream TMDL.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_PUT02A98 / Put In Creek / Described in the condemnation notice 5B, 6/5/1996. MOBPH	4A	Fecal Coliform	2016	L	0.021

Put In Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.021		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-05-SF **Stutts Creek and Morris Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Numbers 061A & 61B, 4/4/1997

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnation 037-061A, 4/15/2020 Portion of VDH Shellfish Condemnations 037-061C, 4/15/2020

Portions of Stutts Creek and Morris Creek were included on the 1998 303(d) list due to VDH Shellfish Condemnations 61A & 61B, 4/4/1997. The condemnations have since merged and separated several times. However, the TMDL, which was developed by the DEQ and was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008, only addressed the portions which were impaired during the 1998 cycle. The 1998 portions are considered Category 4A. The expanded areas are addressed in fact sheet C04E-05-SF2.

In the 2022 cycle, condemnation A shrunk and is now smaller than the 1998 impairment. The seasonally condemned area will be partially delisted (Category 2C/2B).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_MRC01A98 / Morris Creek / Described in VDH-DSS condemnation notice 61B, 4/4/1997. PIAMH	4A	Fecal Coliform	1998	L	0.034
VAP-C04E_STT01A98 / Stutts Creek / Described in VDH-DSS condemnation notice 037-061A, 4/15/2020. Split in the 2022 cycle. PIAMH	4A	Fecal Coliform	1998	L	0.074

Stutts Creek and Morris Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.107		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-05-SF2 Morris Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation Numbers 036-061C, 4/15/2020 not included in 061A & 061B, 4/4/1997

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH Shellfish Condemnation 037-061C, 4/15/2020

Portions of Stutts Creek and Morris Creek were included on the 1998 303(d) list due to VDH Shellfish Condemnations 061A & 061B, 4/4/1997. The condemnations have since merged and separated several times. However, the TMDL only addressed the portions which were impaired during the 1998 cycle. The 1998 portions are considered Category 4A (C04E-05-SF). As the segment first expanded on the 2002 303(d) list, the TMDL for the expansion was due in 2014.

It is considered nested in the Stutts Creek Shellfish TMDL. The TMDL was addressed in the Gwynns Island and Milford Haven Watersheds report, which was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_STT01B10 / Stutts Creek/Morris Creek / Portion of VDH condemnation notice 037-061C, 4/15/2020 not condemned on 4/4/1997. PIAMH	4A	Fecal Coliform	2002	L	0.045

Morris Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.045		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-08-SF North River

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 157A, 6/3/1997

Cause City/County: Gloucester County; Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 042-157A, 7/15/2020 Portion of VDH-DSS SFC Number 042-157S24, 7/15/2020

The upstream portion of the North River was included on the 1998 303(d) list due to VDH Shellfish Condemnation 157A, 6/3/1997. The condemnation subsequently expanded, however the DEQ only addressed the original impaired segment during the bacteria TMDL. The TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007. The original portion is considered Category 4A.

The condemnation has expanded and contracted multiple times. Closed areas are Category 4A, while open areas are Category 2C or 2C/2B as appropriate.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BUR01A00 / Burke Mill Stream / From extent of tide to North River MOBPH	4A	Fecal Coliform	2010	L	0.025
VAP-C04E_NOR01A02 / North River / Described in VDH-DSS condemnation notice 042-157A, 7/15/2020, excluding tidal Burke Mill Stream. Split in the 2022 cycle. MOBPH	4A	Fecal Coliform	1998	L	0.250

North River

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.275		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-09-SF **Elmington Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 157B, 6/3/1997

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS condemnation 042-157D, 7/15/2020

The upstream portion of Elmington Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 157B, 6/3/1997. The condemnation subsequently expanded; however, the DEQ only addressed the original impaired segment in the North River Bacteria TMDL which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

During the 2012 cycle, condemnation 042-157B, 6/15/2007 was rescinded and Elmington Creek was reopened for harvest; the entire stream was delisted.

The creek was relisted in the 2014 cycle. The upstream portion is considered Category 4A; the expanded area is addressed in fact sheet C04E-09-SF2.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_ELM01A98 / Elmington Creek / Described in the condemnation notice 157B, 6/3/1997. MOBPH	4A	Fecal Coliform	2014	L	0.023

Elmington Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.022		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-09-SF2 Elmington Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation 042-157D, 7/15/2020 not included in 157B, 6/3/1997

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS condemnation 042-157D, 7/15/2020

The upstream portion of Elmington Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 157B, 6/3/1997. The condemnation subsequently expanded, however the DEQ only addressed the original impaired segment in the North River Bacteria TMDL report.

During the 2012 cycle, condemnation 042-157B, 6/15/2007 was rescinded and Elmington Creek was reopened for harvest; the entire stream was delisted.

The creek was relisted in the 2014 cycle. The upstream portion is considered Category 4A. The expanded area is considered nested in the Elmington Creek TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_ELM01B08 / Elmington Creek / Portion of VDH condemnation notice 042-157D, 7/15/2020 not included in 157B, 6/3/1997. MOBPH	4A	Fecal Coliform	2014	L	0.009

Elmington Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.009		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-10-SF Back Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 042-157C, 7/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnation 042-157C, 7/15/2020

Back Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 157C, 6/3/1997. The entire creek was addressed in the North River Bacteria TMDL which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

It has varied in size. It shrank in the 2020 cycle and a portion converted to seasonally condemned (2C/2B).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BKA01A98 / Back Creek / Described in VDH condemnation notice 042-157C, 7/15/2020. MOBPH	4A	Fecal Coliform	1998	L	0.056

Back Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.056		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-13-SF East River

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 92, 1/3/1995

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation 041-092A, 10/15/2020

A portion of the East River was included on the 1998 303(d) list due to VDH-DSS condemnation 92, 1/3/1995. The condemnation expanded in the 2008 cycle and incorporated several tributaries and coves (10/25/2005). The Shellfish TMDL was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009. However, only the original impairment was addressed.

The condemnations have expanded and contracted in various cycles. The 1998 portion is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EST01A98 / East River / Described in the condemnation notice 92, 1/3/1995. MOBPH	4A	Fecal Coliform	1998	L	0.198

East River

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.198		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-14-SF Put In Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation Number 041-005A, 9/24/2018 included in 5A, 6/5/1996.

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH Shellfish Condemnation 041-005A, 10/15/2019

Put In Creek was included on the 1998 303(d) list due to VDH-DSS condemnation 5A, 6/5/1996. The Shellfish TMDL was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009.

However, the condemned area has been reduced and the lowermost portion of the 1998 segment is now open for harvest.

The condemnation has expanded and contracted slightly through various cycles.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_PUT01A98 / Put In Creek / Portion of VDH-DSS condemnation notice 041-005A, 10/15/2019 included in 5A, 6/5/1996. MOBPH	4A	Fecal Coliform	1998	L	0.077

Put In Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.077		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-18-SF **Horn Harbor and Horn Harbor, UT**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnations 039-026A and 039-026E, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH condemnation notices 039-026A and -026E, 4/15/2020

Horn Harbor was included on the 1998 303(d) list due to VDH condemnation 26A, 2/25/1997. The TMDL was completed for Horn Harbor was approved by the EPA on 1/23/2008 and by the SWCB on 7/31/2008. The condemned area has retracted and portions of the study area are open for harvest or seasonally condemned.

Horn Harbor is considered Category 4A, 2C, or 2C/2B as appropriate.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_HAH01A98 / Horn Harbor / Described in VDH condemnation notices 039-026A and -026E, 4/15/2020. Shrank slightly in the 2022 cycle. CB6PH	4A	Fecal Coliform	1998	L	0.181

Horn Harbor and Horn Harbor, UT

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shellfishing			
Fecal Coliform - Total Impaired Size by Water Type:	0.181		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-23-SF Put In Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 041-005B, 10/15/2019.

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 041-005B, 10/15/2019

Put In Creek was included on the 1998 303(d) list due to VDH-DSS condemnation 5A, 6/5/1996 (C04E-14-SF). The Shellfish TMDL was developed was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009. However, the condemned area has been reduced and the lowermost portion of the 1998 segment was delisted (Category 2C).

This cove was relisted in the 2016 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_PUT01D16 / Put In Creek / Described in condemnation notice 041-005B, 10/15/2019. MOBPH	4A	Fecal Coliform	2016	L	0.005

Put In Creek, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.005		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-25-SF Winder Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 037-099B, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation 037-099B, 4/15/2020

Winder Creek is nested within the Queens Creek Shellfish TMDL, which was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_MID01A02 / Winder Creek / As described in the condemnation notice 037-099B, 4/15/2020. PIAMH	4A	Fecal Coliform	2002	L	0.025

Winder Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.025		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-27-SF Winter Harbor, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 038-178B, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 038-178B, 4/15/2020

The condemnation is nested in the nearby Horn Harbor Shellfish TMDL, which was approved by the EPA on 1/23/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_WIN01A06 / Winter Harbor, UT / Described in the condemnation notice 038-178B, 4/15/2020. CB6PH	4A	Fecal Coliform	2018	L	0.108

Winter Harbor, UT

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.108		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-28-SF Barn Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 036-197C, 3/15/2019

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation 036-197C, 3/15/2019

Barn Creek is nested within the nearby Edwards Creek Shellfish TMDL, which was addressed in the Gwynn's Island and Milford Haven Watersheds report. The TMDL was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

In the 2022 cycle, the condemnation shrank and the downstream portion is now seasonally condemned and will be partially delisted.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BRN01A04 / Barn Creek / Described in VDH-DSS condemnation notice 036-197C, 3/15/2019. Split in the 2022 cycle. PIAMH	4A	Fecal Coliform	2008	L	0.021

Barn Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.02		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-30-SF Lanes Creek, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 037-099E, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnation 037-099E, 4/15/2020

The impairment is nested within the nearby Edwards Creek Shellfish TMDL, which was addressed in the Gwynn's Island and Milford Haven Watersheds report. The TMDL was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_LAN01B08 / Lanes Creek, UT / Described in VDH Shellfish Condemnation 037-099E, 4/15/2020. PIAMH	4A	Fecal Coliform	2008	L	0.002

Lanes Creek, UT

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.002		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-31-SF Winter Harbor

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 038-178A and -C, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 038-178A and 038-178C, 4/15/2020

Upstream Winter Harbor was impaired of the Shellfish Use. The impairment is nested in the nearby Horn Harbor Shellfish TMDL, which was approved by the EPA on 1/23/2008 and by the SWCB on 7/31/2008.

The condemnation expanded in the 2020 cycle (038-178A, 2/28/2018).

In the 2022 cycle, the condemnation shrank and split. The downstream seasonally condemned portion will be partially delisted. The remaining condemnations are Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_WIN03B18 / Winter Harbor / Described in VDH-DSS condemnation 038-176A and 038-178C, 4/15/2020. Split in the 2022 cycle. CB6PH	4A	Fecal Coliform	2018	L	0.123

Winter Harbor

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.123		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-32-SF **Horn Harbor, UT**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 039-026B, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 039-026B, 4/15/2020

The impairment is nested in the upstream Horn Harbor Shellfish TMDL, which was approved by the EPA on 1/23/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_HAH02D18 / Horn Harbor, UT / Described in VDH-DSS condemnation 039-026B, 4/15/2020. CB6PH	4A	Fecal Coliform	2018	L	0.005

Horn Harbor, UT

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.005		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-33-SF **Borum Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 039-026C, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 039-026C, 4/15/2020

The impairment is nested in the upstream Horn Harbor Shellfish TMDL, which was approved by the EPA on 1/23/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BOR01A18 / Borum Creek / Described in VDH-DSS condemnation 039-026C, 4/15/2020. CB6PH	4A	Fecal Coliform	2018	L	0.028

Borum Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.028		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-34-SF Edwards Creek

Cause Location: Portion of VDH-DSS condemnation notice 036-197D, 3/15/2019 included in 197B, 1/21/1997.

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation 036-197D, 3/15/2019

A portion of Edwards Creek was included on the 1998 303(d) list due to VDH condemnation 197A, 1/21/1997. The TMDL was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

During the 2016 cycle, Edwards Creek was open or seasonally condemned (036-197, 1/31/2014); therefore, the impairment was delisted.

The upper portion was relisted in 2018 (Category 4A).

The condemnation expanded in the 2020 cycle and now extends past the TMDL extent. This expanded portion is considered nested (Category 4A.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EDW02B20 / Edwards Creek / Portion of VDH-DSS condemnation notice 036-197D, 3/15/2019 not included in 197B, 1/21/1997. PIAMH	4A	Fecal Coliform	2020	L	0.006

Edwards Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.006		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-36-SF Lanes Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 039-099C, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 037-099C, 4/15/2020

Lanes Creek is nested within the nearby Edwards Creek Shellfish TMDL, which was addressed in the Gwynn's Island and Milford Haven Watersheds report. The TMDL was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_LAN01A02 / Lanes Creek / As described in VDH-DSS condemnation notice 037-099C, 4/15/2020. PIAMH	4A	Fecal Coliform	2020	L	0.02

Lanes Creek

Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.02		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-37-SF Hudgins Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 037-061D, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 037-061D, 4/15/2020

Hudgins Creek is nested within the upstream Stutts Creek Shellfish TMDL, which was addressed in the Gwynn's Island and Milford Haven Watersheds report. The TMDL was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_HUD01A08 / Hudgins Creek / Described in VDH-DSS Condemnation 037-061D, 4/15/2020. PIAMH	4A	Fecal Coliform	2020	L	0.016

Hudgins Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.016		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-39-SF Billups Creek

Cause Location: Portion of VDH-DSS condemnation notice 204, 4/4/1997 closed on 4/15/2020.

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH Shellfish Condemnation 037-061B, 4/15/2020

A portion of Billups Creek was included on the 1998 303(d) list for the Shellfish Consumption Use due to VDH-DSS condemnation 204, 4/4/1997. The Shellfish TMDL, which was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008 addresses the 1998 portion.

In the 2018 cycle, the condemnation was rescinded and the impairment was delisted.

A portion of Billups Creek was relisted in the 2020 cycle. The condemnation extent differs from the TMDL extent; a portion of the TMDL remains open for harvest (Category 2C) while the condemnation also extends past the TMDL. The expansion will be addressed in C04E-40-SF.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BLL01A98 / Billups Creek / Portion of VDH-DSS condemnation notice 204, 4/4/1997 closed on 4/15/2020. PIAMH	4A	Fecal Coliform	2020	L	0.044

Billups Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.044		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-40-SF Billups Creek

Cause Location: Portion of VDH-DSS condemnation notice 037-061B, 4/15/2020 open on 204, 4/4/1997.

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH Shellfish Condemnation 037-061B, 4/15/2020

An upstream portion of Billups Creek was included on the 1998 303(d) list for the Shellfish Consumption Use due to VDH-DSS condemnation 204, 4/4/1997. The Shellfish TMDL, which was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008 addresses the 1998 portion.

In the 2018 cycle, the condemnation was rescinded and the impairment was delisted.

A portion of Billups Creek was relisted in the 2020 cycle. The condemnation extent differs from the TMDL extent; a portion of the TMDL remains open for harvest (Category 2C) while the condemnation also extends past the TMDL. The closed TMDL extent is addressed in C04E-39-SF.

The expansion is considered nested (Category 4A.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BLL02B20 / Billups Creek / Portion of VDH-DSS condemnation 037-061B, 4/15/2020 open on 4/4/1997. PIAMH	4A	Fecal Coliform	2020	L	0.006

Billups Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.006		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-42-SF **Weston Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 041-212A, 10/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnation 041-212A, 10/15/2020

The Weston Creek shellfish impairment is nested in the upstream East River Shellfish TMDL, which was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_WON01A08 / Weston Creek / Described in VDH Shellfish Condemnation 041-212A, 10/15/2020. MOBPH	4A	Fecal Coliform	2008	L	0.025

Weston Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.025		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-43-SF **Horn Harbor, UT**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 039-026D, 4/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 039-026D, 4/15/2020

The impairment is nested in the upstream Horn Harbor Shellfish TMDL, which was approved by the EPA on 1/23/2008 and by the SWCB on 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_HAH02C20 / Horn Harbor / Described in VDH-DSS condemnation 039-026D, 4/15/2020. CB6PH	4A	Fecal Coliform	2020	L	0.037

Horn Harbor, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.037		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-48-SF **Woodas Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 041-092B, 1/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Shellfish Condemnation 041-092B, 10/15/2020

A portion of the East River was included on the 1998 303(d) list due to VDH-DSS condemnation 92, 1/3/1995. The condemnation expanded in the 2008 cycle and incorporated several tributaries and coves (10/25/2005). During the 2010 cycle, the DEQ developed the Shellfish TMDL; however, only the original impairment was addressed.

In the 2010 cycle, the condemned area included the original 1998 impairment plus an expanded mainstem area, Woodas Creek, and two (later delisted) tributaries. The 1998 portion is considered Category 4A. The TMDL due date for the expansions is 2020.

Woodas Creek is nested in the upstream East River Shellfish TMDL, which was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_WOO01A10 / Woodas Creek / Described in VDH-DSS condemnation notice 041-092B, 10/15/2020. MOBPH	4A	Fecal Coliform	2008	L	0.029

Woodas Creek

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.029		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-49-SF East River

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation 041-092A, 10/15/2020 not included in 92, 1/3/1995

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH-DSS Shellfish Condemnation 041-092A, 10/15/2020

A portion of the East River was included on the 1998 303(d) list due to VDH-DSS condemnation 92, 1/3/1995. The condemnation subsequently expanded; however, only the original impairment was addressed. The 1998 portion is considered Category 4A. The TMDL due date for the expansion is 2020.

This expansion is nested in the upstream East River Shellfish TMDL, which was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009.

The condemnation has expanded and contracted multiple times.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EST01B10 / East River / Portion of condemnation notice 041-092A, 10/15/2020 open in 92, 1/3/1995. Size increased in the 2022 cycle. MOBPH	4A	Fecal Coliform	2008	L	0.072

East River

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.072		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C04E-50-SF** **Toddsbury Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 042-157E, 7/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 042-157E, 7/15/2020

Toddsbury Creek is nested within the upstream North River Shellfish TMDL. The TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_TOD01A20 / Toddsbury Creek / Described in VDH-DSS condemnation 042-157E, 7/15/2020. MOBPH	4A	Fecal Coliform	2020	L	0.02

Toddsbury Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.02		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-52-SF North River, UT

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 042-157B, 7/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 042-157B, 7/15/2020

The impairment is nested within the upstream North River Shellfish TMDL. The TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_NOR03A20 / North River, UT / Described in VDH-DSS condemnation 042-157B, 7/15/2020. MOBPH	4A	Fecal Coliform	2020	L	0.021

North River, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.021		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-53-BAC Whites Creek - Festival Beach

Cause Location: Whites Creek at Festival Beach

Cause City/County: Mathews County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/5A

Cause Description: During the 2012 cycle, Whites Creek at Festival Beach was mistakenly impaired of the Recreation Use due to seven short-term swimming advisories during the 2010 swim season. The advisories were limited to 1-3 days in length and therefore were not appropriate for listing.

During the 2016 and 2018 cycles, there were no beach closures of a week or more duration. However, there were two exceedances of the bacteria geometric mean during the 2016 cycle therefore the beach remained listed.

In the 2020 cycle, there were two geomean exceedances and five swimming advisories of short duration.

In the 2022 cycle, the four swimming advisories were all «1 week in duration and there were no geometric mean exceedances. However, the segment remains impaired because there were two or more STV exceedances in the same 90-day period represented by 10+ samples.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_WHI01A08 / Whites Creek / Whites Creek around Festival Beach PIAMH	5A	Enterococcus	2012	L	0.074

Whites Creek - Festival Beach

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.074		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-56-SF East River, UT

Cause Location: Described in VDH-DSS Condemnation 041-092C, 10/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: C04E-55-SF

VDH-DSS Condemnation 041-092C, 10/15/2020

The UT was closed for harvest in the 2022 cycle. The impairment will be considered nested in the upstream East River Shellfish TMDL, which was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EST02B20 / East River, UT / Described in VDH-DSS condemnation 041-092C, 10/15/2020. Size reduced in the 2022 cycle. MOBPH	4A	Fecal Coliform	2022	L	0.013

East River, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.013		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C04E-57-SF** Miles Creek

Cause Location: Described in VDH-DSS Condemnation 041-212B, 10/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 041-212B, 10/15/2020

Miles Creek is nested in the upstream East River Shellfish TMDL, which was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_MIS01A04 / Miles Creek / Described in VDH Condemnation Notice 041-212B, 10/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Fecal Coliform	2022	L	0.039

Miles Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.039		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-58-SF XFA - North River, UT

Cause Location: Described in VDH-DSS condemnation 042-131A, 7/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 042-131A, 7/15/2020

It is proposed for nesting within the upstream Blackwater Creek Shellfish TMDL, which was addressed in the North River TMDL report and approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_XFA03A14 / XFA - North River, UT / Described in VDH-DSS condemnation 042-131A, 7/15/2020. MOBPH	4A	Fecal Coliform	2022	L	0.02

XFA - North River, UT

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.02		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-59-SF **Raymond Creek**

Cause Location: Described in VDH-DSS condemnation 042-131B, 7/15/2020

Cause City/County: Mathews County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 042-131B, 7/15/2020

It is proposed for nesting within the upstream Blackwater Creek Shellfish TMDL, which was addressed in the North River TMDL report and approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_RAY01A12 / Raymond Creek / Described in VDH-DSS condemnation 042-131B, 7/15/2020. MOBPH	4A	Fecal Coliform	2022	L	0.026

Raymond Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.025		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04R-01-BAC East River

Cause Location: Nontidal mainstem of the East River.

Cause City/County: Mathews County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: During the 2012 cycle, the nontidal East River was impaired of the Recreation Use due to an E. coli exceedance rate of 2/12 at 7-EST008.71, which is located at Rt. 14.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

A shellfish bacterial impairment on tidal East River was addressed in the East River TMDL, which was approved by the EPA on 2/27/2008 and by the SWCB on 4/28/2009. Implementation of the TMDL is expected to bring the nontidal Recreation Use impairment into compliance; therefore, the segment is considered nested (Category 4A.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04R_EST01A12 / East River / Headwaters to tidal limit	4A	Escherichia coli (E. coli)	2012	L	0.59

East River

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			0.59

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04R-01-DO East River

Cause Location: Nontidal mainstem of the East River.

Cause City/County: Mathews County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5C

Cause Description: During the 2012 cycle, the nontidal East River was impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 4/12 at 7-EST008.71, which is located at Rt. 14.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04R_EST01A12 / East River / Headwaters to tidal limit	5C	Dissolved Oxygen	2012	L	0.59

East River

Aquatic Life

Estuary (Sq. Miles) Reservoir (Acres) River (Miles)
 Dissolved Oxygen - Total Impaired Size by Water Type: 0.59

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04R-01-PH East River

Cause Location: Nontidal mainstem of the East River.

Cause City/County: Mathews County

Use(s): Aquatic Life

Causes(s)/VA Category: pH/5C

Cause Description: During the 2012 cycle, the nontidal East River was impaired of the Aquatic Life Use due to a pH exceedance rate of 8/12 at 7-EST008.71, which is located at Rt. 14.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04R_EST01A12 / East River / Headwaters to tidal limit	5C	pH	2012	L	0.59

East River

Aquatic Life

pH - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.59

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04R-02-BAC **Burke Mill Stream**

Cause Location: Burke Mill Stream from extent of tide to mouth at the North River.

Cause City/County: Gloucester County; Mathews County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: Burke Mill Stream from Burke Pond to the tidal limit was assessed as impaired of the Recreation Use in 2004 based on fecal coliform exceedances at the Route 3/Route 14 bridge (7-BUR001.19).

During the 2008 cycle, the E. coli exceedance rate was 2/10; therefore, the impairment converted to E. coli. The original TMDL due date of 2016 was maintained.

However, during the 2010 cycle, it was determined that station 7-BUR001.19 is tidally influenced. Since no enterococci data had been collected at the site, the bacterial impairment was carried over. The extent of the impairment was changed from the tidal limit to the mouth.

Enterococci monitoring during the 2012 cycle confirmed the Recreation Use impairment. The exceedance rate was 7/12 at 7-BUR001.19.

As the impairment is within the area addressed in the Shellfish TMDL for the North River, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007, the Recreation Use impairment is considered nested (Category 4A).

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_BUR01A00 / Burke Mill Stream / From extent of tide to North River MOBPH	4A	Enterococcus	2012	L	0.025

Burke Mill Stream

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.025		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C05E-01-SF Ware River / Fox Mill Run

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 096A and 096B, 8/12/1996

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portions of VDH Shellfish Condemnation 043-096A, 7/15/2020

Fox Mill Run and a portion of the Ware River were included on the 1998 303(d) list due to VDH Shellfish Condemnation 96B and 96A, 8/12/1996. The Ware River condemnation has since expanded to incorporate the Fox Mill Run impairment. However, the DEQ developed the Bacteria TMDL for only the original 1998 portions; the TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007. The 1998 portions are considered Category 4A waters.

The expanded area of the Ware River is addressed in fact sheet C05E-01-SF2.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_FOX01A08 / Fox Mill Run / Described in VDH condemnation notice 96B, 8/12/1996. MOBPH	4A	Fecal Coliform	1998	L	0.085
VAP-C05E_WAR01A02 / Ware River / Described in the condemnation notice 096A, 8/12/1996. Tidal extent adjusted in the 2022 cycle. MOBPH	4A	Fecal Coliform	1998	L	0.270

Ware River / Fox Mill Run

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.356		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C05E-01-SF2 Ware River

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation 043-096A, 7/15/2020 not included in 096A and 096B, 8/12/1996

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH Shellfish Condemnation 043-096A, 7/15/2020

Fox Mill Run and a portion of the Ware River were included on the 1998 303(d) list due to VDH Shellfish Condemnation 96B and 96A, 8/12/1996. The Ware River condemnation has since expanded to incorporate the Fox Mill Run impairment. However, the DEQ developed the Bacteria TMDL for only the original 1998 portions. The TMDL for the expanded portion of the Ware River was due in 2014 since it first expanded in the 2002 list.

The expansion is nested within the upstream Ware River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

The condemnation has expanded and contracted multiple times.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_WAR01B08 / Ware River / Portion of VDH condemnation notice 043-096A, 7/15/2020 not included in condemnation 96A and 96B, 8/12/1996. Expanded in the 2022 cycle. MOBPH	4A	Fecal Coliform	2002	L	0.224

Ware River

Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.224		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C05E-02-SF Wilson Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 106, 8/12/1996

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH Shellfish Condemnation 043-096B, 7/15/2020

A portion of Wilson Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 106, 8/12/1996. The condemnation has since expanded and contracted. However, the bacteria TMDL was only developed for the original 1998 portion; the TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

In the 2014 cycle, the condemnations expanded and merged again. The expansion is addressed in fact sheet C05E-02-SF2.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_WIL01A98 / Wilson Creek / Described in the condemnation notice 106, 8/12/1996. MOBPH	4A	Fecal Coliform	1998	L	0.033

Wilson Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.033		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C05E-02-SF2 Wilson Creek

Cause Location: Portion of VDH Notice and Description of Shellfish Condemnation 043-096B, 7/15/2020 not included in 106, 8/12/1996

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion of VDH Shellfish Condemnation 043-096B, 7/15/2020

A portion of Wilson Creek was included on the 1998 303(d) list due to VDH Shellfish Condemnation 106, 8/12/1996. The condemnation has since expanded and contracted.

The impairment is nested in the upstream Wilson Creek TMDL, which was developed in the Ware River report. The TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_WIL01B08 / Wilson Creek / Portion of VDH condemnation notice 043-096B, 7/15/2020 not included in condemnation notice 106, 8/12/1996. MOBPH	4A	Fecal Coliform	2002	L	0.142

Wilson Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.142		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C05E-03-BAC Ware River

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 096A, 8/12/1996

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2018 cycle, the upper tidal Ware River was impaired of the Recreation Use due to an enterococci exceedance rate of 5/8 at 7-BEA000.40. The station is located near the tidal limit on Beaverdam Swamp at Rt. 14.

New bacteria criteria were implemented in the 2022 cycle. No new data were collected, but re-analysis of the previous data confirms that the segment remains impaired due to two or more STV exceedances in the same 90-day period with <10 samples.

The impairment is nested in the Ware River Watershed Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007. It is considered a Category 4A water.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_WAR01A02 / Ware River / Described in the condemnation notice 096A, 8/12/1996. Tidal extent adjusted in the 2022 cycle. MOBPH	4A	Enterococcus	2018	L	0.27

Ware River

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.27		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C05R-01-BAC Fox Mill Run

Cause Location: From its headwaters to the limit of tide.

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: In 2002, the segment was assessed not supporting of the Recreation Use because of a fecal coliform exceedance rate of 5/18 at the Route 17 bridge (7-FOX002.49).

Additional monitoring has been conducted. The bacterial impairment converted to E. coli in the 2010 cycle; however, the original TMDL due date was maintained. During the 2012 cycle, the segment remained impaired: 2/23 (FS) at 7-FOX002.49 3/12 at 7-FOX003.22 2/12 at 7-FOX004.68 3/12 at 7-FOX006.56

The impairment is considered nested (Category 4A) because it is located within the watershed study area for the Ware River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

New bacteria criteria were implemented in the 2022 cycle. There is insufficient information to assess the criteria; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05R_FOX01A00 / Fox Mill Run / From its headwaters to the extent of tide.	4A	Escherichia coli (E. coli)	2010	L	6.97

Fox Mill Run

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			6.97

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C05R-04-BAC XEG - Fox Mill Run, UT

Cause Location: Unnamed tributary to Fox Mill Run, in its entirety.

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: During the 2012 cycle, the tributary was assessed as not supporting of the Recreation Use due to an E. coli exceedance rate of 2/12 at 7-XEG000.27, which is located at a private drive off of Route 615.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

The impairment is considered nested (Category 4A) because it is located within the watershed study area for the Ware River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05R_XEG01A10 / XEG - Fox Mill Run, UT / Headwaters to mouth at Fox Mill Run	4A	Escherichia coli (E. coli)	2012	L	1.71

XEG - Fox Mill Run, UT

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.71

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06E-01-BAC Northwest Branch Severn River

Cause Location: From the limit of tide to the mouth at the Severn River.

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/5A

Cause Description: The nontidal portion of the Northwest Branch of the Severn River was initially assessed as not supporting of the Recreation Use goal because of fecal coliform exceedances at 7-SEN004.04 (fact sheet C06R-01-BAC). The TMDL was due in 2014.

During the 2008 cycle, the E. coli violation rate was 7/11; therefore, the impairment was converted. The original TMDL due date was maintained.

During the 2010 cycle, it was determined that the station is tidally influenced during most circumstances. The impairment was adjusted to extend from the tidal limit to the downstream extent of the shellfish condemnation.

The impairment was extended to the mouth during the 2016 cycle due to additional monitoring at 7-SEN001.35, which is located at Brays Point. The exceedance rate was 3/12.

The impairment was previously nested within the study area for the Severn River Watershed TMDL Report for Shellfish Condemnation Areas Listed Due to Bacteria Contamination, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007. In the 2020 cycle, a general permit was issued for a new domestic wastewater discharge. Since the shellfish TMDL did not address permitted point sources and did not include a WLA, the bacteria impairment can no longer be considered nested.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_SEN01A02 / Northwest Branch Severn River / Described in condemnation notice 044-093B, 6/15/2020, excluding tributary XEE. MOBPH	5A	Enterococcus	2010	L	0.127
VAP-C06E_SEN01C10 / Northwest Branch Severn River / Portion of condemnation notice 93A, 4/1/1997 open on 044-093, 6/15/2020. MOBPH	5A	Enterococcus	2016	L	0.167
VAP-C06E_SEN02A06 / Northwest Branch Severn River / Northwest Branch Severn Creek not otherwise segmented Segment adjusted in the 2022 cycle. MOBPH	5A	Enterococcus	2016	L	0.427

Northwest Branch Severn River

Recreation

Enterococcus - Total Impaired Size by Water Type:

Estuary
(Sq. Miles)
0.721

Reservoir
(Acres)

River
(Miles)

Sources: Non-Point Source; Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06E-01-SF Northwest Branch Severn River

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 044-093B, 6/15/2020.

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 044-093B, 6/15/2020

The upper portion of the Northwest Branch Severn River and a portion of Vaughans Creek were included on the 1998 303(d) list due to VDH Shellfish Condemnations 93A and 93B, 4/1/1997, respectively.

The Bacteria TMDL for the Shellfish Impairments in the Severn River Watershed was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007).

During the 2014 cycle, both creeks were completely reopened for harvest (044-093, 2/22/2012); therefore, the streams were delisted (Category 2C).

The segment was relisted in the 2016 cycle (Category 4A). The condemnation grew slightly in the 2020 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_SEN01A02 / Northwest Branch Severn River / Described in condemnation notice 044-093B, 6/15/2020, excluding tributary XEE. MOBPH	4A	Fecal Coliform	2016	L	0.127
VAP-C06E_XEE01A10 / XEE - Northwest Branch Severn River, UT / Tidal limit to mouth at NW Branch Severn River MOBPH	4A	Fecal Coliform	2016	L	0.003

Northwest Branch Severn River

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.13		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06E-03-SF Vaughans Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 044-093C, 6/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 044-093C, 6/15/2020

The upper portion of the Northwest Branch Severn River and a portion of Vaughans Creek were included on the 1998 303(d) list due to VDH Shellfish Condemnations 93A and 93B, 4/1/1997, respectively.

The Bacteria TMDL for the Shellfish Impairments in the Severn River Watershed was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

During the 2014 cycle, both creeks were completely reopened for harvest (044-093, 2/22/2012); therefore, the streams were delisted (Category 2C).

The portion of Vaughans Creek was relisted in the 2016 cycle (Category 4A). It has varied in size but was previously smaller than the TMDL extent.

In the 2022 cycle, the condemnation expanded past the TMDL. The expansion will be considered nested.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_VGH01A98 / Vaughans Creek / Described in the condemnation notice 93B, 4/1/1997. Merged in the 2022 cycle. MOBPH	4A	Fecal Coliform	2016	L	0.121
VAP-C06E_VGH02A22 / Vaughans Creek / Portion of VDH-DSS Condemnation 044-093C, 6/15/2020 not included in 93B, 4/4/1997 MOBPH	4A	Fecal Coliform	2022	L	0.015

Vaughans Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.135		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06E-04-SF Heywood Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 044-054B, 6/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH DSS Shellfish Condemnation 044-054B, 6/15/2020

Heywood Creek was listed on the 1998 303(d) list due to VDH Shellfish Condemnation 101, 4/1/1997. The TMDL for this area was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

The condemned area is currently smaller than the 1998 impairment; the open area within the completed TMDL is Category 2C.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_HEY01A98 / Heywood Creek / Described in the condemnation notice 044-054B, 6/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Fecal Coliform	1998	L	0.106

Heywood Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.106		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06E-05-SF **Thorntons Creek**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 044-054A, 6/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH DSS Shellfish Condemnation 044-054A, 6/15/2020

Thorntons Creek was listed on the 1998 303(d) list due to VDH Shellfish Condemnation 54, 4/1/1997. The TMDL for this area was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007. The 1998 portion of Thorntons Creek was considered a Category 4A water. The condemned area is now smaller than the 1998 impairment. The open area within the completed TMDL was partially delisted (Category 2C).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_THC01A98 / Thorntons Creek / Described in the condemnation notice 044-054A, 6/15/2020. MOBPH	4A	Fecal Coliform	1998	L	0.063

Thorntons Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.063		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06E-08-SF Free School Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 044-093A, 6/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH Shellfish Condemnation 044-093A, 6/15/2020

Free School Creek was addressed in the Severn River Watershed Bacteria TMDL for Shellfish Impairments. The TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

The condemnation is currently smaller than the TMDL extent. The closed portion is considered a Category 4A water. The open portion is Category 2C.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_FSC01A98 / Free School Creek / Described in VDH Shellfish Condemnation 044-093A, 6/15/2020. MOBPH	4A	Fecal Coliform	2008	L	0.039

Free School Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.039		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06E-09-SF Blevins Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation 045-125A, 12/15/2020

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS condemnation 045-125A, 12/15/2020

Blevins Creek is nested in the Browns Bay and Monday Creek Shellfish TMDL Report, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_BLV01A20 / Blevins Creek / Described in VDH-DSS condemnation 045-125A, 12/15/2020. Size reduced slightly in the 2022 cycle. MOBPH	4A	Fecal Coliform	2020	L	0.049

Blevins Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.049		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C06E-12-SF** **Whitaker Creek**

Cause Location: Described in VDH-DSS Condemnation 044-093D, 6/15/2020.

Cause City/County: Gloucester County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: VDH-DSS Condemnation 044-093D, 6/15/2020

The impairment is proposed for nesting in the neighboring Free School Creek TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_WTT01A08 / Whitaker Creek / Described in VDH-DSS Condemnation 044-093D, 6/15/2020 Size reduced in the 2022 cycle. MOBPH	4A	Fecal Coliform	2022	L	0.037

Whitaker Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.037		

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06R-01-BAC Northwest Branch of Severn River

Cause Location: From its headwaters to the limit of tide.

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: The nontidal portion of the Northwest Branch of the Severn River was initially assessed as not supporting of the Recreation Use goal because of fecal coliform exceedances at 7-SEN004.04, located near a private road off of Rt. 614. The TMDL was due in 2014.

During the 2008 cycle, the E. coli exceedance rate was 7/11; therefore, the impairment was converted. The original TMDL due date was maintained.

During the 2010 cycle, it was determined that station 7-SEN004.04 is actually tidally influenced during most circumstances. The segment was shortened to correct the tidal limit and additional data was collected at station 7-SEN004.78. The exceedance rate was 3/10 during the 2012 cycle.

The impairment is nested within the study area for the Severn River Watershed TMDL Report for Shellfish Condemnation Areas Listed Due to Bacteria Contamination, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007. The watershed requires a 98% reduction in bacterial loadings in order to meet the downstream TMDL.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06R_SEN01A00 / Northwest Branch Severn River / From its headwaters to the extent of tide.	4A	Escherichia coli (E. coli)	2008	L	2.16

Northwest Branch of Severn River

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			2.16

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C06R-02-BAC XEE - Northwest Branch Severn River, UT

Cause Location: The tidal portion of the tributary.

Cause City/County: Gloucester County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: During the 2010 cycle, the tributary was assessed as not supporting of the Recreation Use due to an E. coli violation rate of 2/6 at 7-XEE000.58, which is located at the Route 614 bridge.

During the 2012 cycle, it was determined that the station is tidally influenced. The station failed the Recreation Use due to an enterococci exceedance rate of 5/11. The impairment was converted to enterococci and the segment extent was corrected.

The impairment is nested within the study area for the Severn River Watershed TMDL Report for Shellfish Condemnation Areas Listed Due to Bacteria Contamination, which was approved by the EPA on 6/7/2006 and the SWCB on 3/23/2007.

New bacteria criteria were implemented in the 2022 cycle. No additional data have been collected; therefore, the impairment is carried over.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_XEE01A10 / XEE - Northwest Branch Severn River, UT / Tidal limit to mouth at NW Branch Severn River MOBPH	4A	Enterococcus	2012	L	0.003

XEE - Northwest Branch Severn River, UT

Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
	Enterococcus - Total Impaired Size by Water Type:	0.003	

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-01-BAC Brick Kiln Creek

Cause Location: This cause encompasses from 0.3 mi. downstream of Big Bethel Res. dam (approx. RM 5.0, end of tidal waters north of Ebenezer Church) downstream to confluence with Northwest Branch Back River. CBP Segment MOBPH.

Cause City/County: Hampton; York County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use impairment is retained due to Enterococcus concentrations exceeding the swimming indicator criteria. There was no new data in the current cycle. Recreation impairments included in TMDL (31233) EPA approved 4/24/2014 under TMDL ID = VAT-C07E-01 modified 2/9/2018.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BRK01A06 / Brick Kiln Creek / From 0.3 mi. downstream of Big Bethel Res. dam (approx. RM 5.0, end of tidal waters north of Ebenezer Church) downstream to confluence with Northwest Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 A (effective 20201115).	4A	Enterococcus	2004	L	0.086

Brick Kiln Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.086		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C07E-01-PCB** Chesapeake Bay and Tidal Tributaries VDH Fish Consumption Advisory for PCBs

Cause Location: This cause encompasses the Chesapeake Bay & Tidal Tributaries within the lower bay.

Cause City/County: Hampton; Poquoson City; York County

Use(s): Fish Consumption

Causes(s)/VA Category: PCBs in Fish Tissue/5A

Cause Description: The Fish Consumption Use is impaired based on the VDH fish consumption advisory for PCBs fish tissue contamination within the Chesapeake Bay issued 12/13/04. Previous Use ID (2006 IR) as TMDL ID: VDH-Bay PCBs.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BAK01A00 / Mainstem Back River / From junction of Northwest and Southwest Branches downstream to mouth of Back River. Portion of CBP Segment MOBPH. DSS Condemnation 054-215 OPEN (20181018) and 054-021 (20151102) shellfish condemnations.	5A	PCBs in Fish Tissue	2006	L	3.340
VAT-C07E_BAK01B08 / Mainstem Back River-South Shore at Mouth Wallace Cr. / Portion of mainstem along south shore between Windmill Pt. and Grunland Pt. CBP Segment MOBPH. DSS shellfish condemnation # 054-215 M1 (Seasonal)(effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.091
VAT-C07E_BAK02A14 / Back Creek - Inlet near Dandy Point [TMDL] / Tributary to south shore Back River (incl area in Back R), east of Harris R & adjacent to Inlet #2. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-215 B, 20181018.	5A	PCBs in Fish Tissue	2006	L	0.034
VAT-C07E_BCB01A06 / Buckroe Beaches / From northeast of Buckroe Beach southwest to parallel with start of Mill Cr. Portion of CBP Segment CB8PH. No DSS shellfish condemnations.	5A	PCBs in Fish Tissue	2006	L	0.224
VAT-C07E_BCK01A00 / Back Creek - Upper / Back Creek (S of York R mouth) tributary to the Thorofare and Chesapeake Bay. From end of tidal waters downstream to point upstream of Dandy (RM 1.6). CBP Segment MOBPH. DSS shellfish condemnation # 053-151 A &M1 (effective 20190515).	5A	PCBs in Fish Tissue	2006	L	0.281
VAT-C07E_BCK02A06 / Back Creek - Middle (DSS-marina area) / Back Creek (S of York R mouth) is a tributary to The Thorofare and Chesapeake Bay. CBP Segment MOBPH. Area within DSS shellfish condemnation # 053-151 M1, around marina area (effective 20180425).	5A	PCBs in Fish Tissue	2006	L	0.078

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BCK03A06 / Back Creek - Lower / Back Creek (S of York R mouth) is a tributary to The Thorofare and Chesapeake Bay. CBP Segment MOBPH. From upstream of Dandy (RM 1.6) downstream to mouth (RM 0.0). DSS (OPEN) shellfish condemnation # 053-151 (effective 20190515).	5A	PCBs in Fish Tissue	2006	L	0.405
VAT-C07E_BEN01A06 / Bennett Creek - Upper (DSS_06-IR) / Bennett Creek upstream portion (S of Poquoson R mouth) tributary to Poquoson River. From end of tidal waters downstream 0.1 mi. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 053-222 E (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.039
VAT-C07E_BEN02A08 / Bennet Creek - Lower Middle / South shore tributary to Poquoson R, in area of Griffins Beach. East of Roberts Cr. and north of White House Cove. CBP Segment MOBPH. DSS (OPEN, Seasonal, and Conditionally Approved) Shellfish condemnation # 053-222 M1 and S147 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.209
VAT-C07E_BEN03A16 / Bennett Creek-Mouth / Mouth of Bennett Creek. CBP Segment MOBPH. No DSS direct shellfish harvesting condemnation.	5A	PCBs in Fish Tissue	2006	L	0.366
VAT-C07E_BRK01A06 / Brick Kiln Creek / From 0.3 mi. downstream of Big Bethel Res. dam (approx. RM 5.0, end of tidal waters north of Ebenezer Church) downstream to confluence with Northwest Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 A (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.086
VAT-C07E_BTC01A08 / Bay Tree Creek / Trib to Bay, S of The Thorofare & N of mouth of Poquoson R. @ Bay Tree Point. CBP Segment MOBPH. DSS Shellfish condemnation # 053-221 B (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.076
VAT-C07E_BTC02A18 / Bay Tree Creek- Mouth / Trib to Bay, S of The Thorofare & N of mouth of Poquoson R. @ Bay Tree Point. CBP Segment MOBPH. DSS (OPEN) Shellfish condemnation # 053-221 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.050
VAT-C07E_BTH01A08 / Boathouse Creek / Boathouse Creek (N of Poquoson R mouth) tributary to Chisman Creek. CBP Segment MOBPH. DSS condemnation # 053-221 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.042
VAT-C07E_BTH01B22 / Chisman Creek-Lower North Shore (Marina) / Downstream section of Boathouse Creek, from Anchor Drive to mouth. CBP Segment MOBPH. DSS Conditionally Approved S141 condemnation # 053-221 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.030

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_CAB01A08 / Cabin Creek / Cabin Creek (N of Poquoson R mouth) tributary to Chisman Creek. CBP Segment MOBPH. DSS shellfish condemnation # 053-221 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.082
VAT-C07E_CCR01A06 / Cedar & Topping Creeks / Located near City of Poquoson. Cedar & Topping Creeks are tribs to the north shore of the Northwest Branch of Back River. Portion of DSS condemnation # 054-021 A (less NW Br Back R./Brick Kiln Cr. portion) effective 20201115. CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.109
VAT-C07E_CHS01A06 / Chisman Creek-Upper / From end of tidal waters (upper 1/3 of creek), downstream to area of Evergreen Shores (approx. RM 0.9). CBP Segment MOBPH. DSS condemnation # 053-221A & seasonal M2 (effective 20180425).	5A	PCBs in Fish Tissue	2006	L	0.408
VAT-C07E_CHS02A06 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Spivey Road to mouth. CBP Segment MOBPH. DSS (OPEN) condemnation # 053-221 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.520
VAT-C07E_CHS02B22 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Seaford Shores to north side of water near Spivey Rd. CBP Segment MOBPH. DSS Seasonally Restricted and Conditionally Approved condemnation # 053-221 M1 & S140 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.005
VAT-C07E_CHS02C22 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Goose Creek to Seaford Shores area. CBP Segment MOBPH. DSS Conditionally Approved condemnation # 053-221 S140 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.005
VAT-C07E_CHS03A20 / Chisman Creek - Lower / First inlet on the right coming into the mouth of the Chisman. CBP Segment MOBPH. DSS Restricted-condemnation # 053-221 & M1(effective 20180425).	5A	PCBs in Fish Tissue	2006	L	0.006
VAT-C07E_EAS01A06 / Easton Cove / Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. DSS Conditionally approved shellfish condemnation # 053-222 S147 (effective 20200615). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.057
VAT-C07E_FLY01A06 / Floyds Bay- Upper / Upper Portion of Floyds Bay. Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. Portion of DSS shellfish condemnation # 053-222 D (effective 20200615). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.042

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_FLY02A16 / Floyds Bay- mouth / Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. Portion of DSS shellfish condemnation # 053-222 D (effective 20180425). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.010
VAT-C07E_FRT01A06 / Front Cove - Upper / North shore trib. to mainstem Back R. Adjacent to Messick Point. DSS shellfish condemnation # 054-021 C (effective 20201115). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.042
VAT-C07E_FRT02A08 / Front Cove - Lower / North shore trib. to mainstem Back R. Adjacent to Messick Point. DSS shellfish Seasonal condemnation # 054-021 M1 (effective 20181018). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.036
VAT-C07E_GLD01A10 / Grunland Creek - Mouth / South shore trib. to mainstem Back R. Adjacent to Grandview area. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.053
VAT-C07E_GLD02A18 / Grunland Creek - Back River / South shore trib. to mainstem Back R. Adjacent to Grunland Point. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 C (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.049
VAT-C07E_GOO01A14 / Goose Creek- Upper / From end of tidal waters to approx. River mile 0.27. DSS Shellfish condemnation # 053-221 C (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.065
VAT-C07E_GOO02A14 / Goose Creek- Lower / From Rivermile 0.27 to mouth. CBP Segment MOBPH. DSS Restricted-condemnation # 053-221 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.036
VAT-C07E_GRV01A06 / Grandview Pier & Saltponds Beaches / From Grandview beach southwest to northeast of Buckroe Beach. Offshore of Buckroe Beach VDH monitoring. area Portion of CBP Segment CB8PH. No DSS shellfish condemnation present.	5A	PCBs in Fish Tissue	2006	L	0.241
VAT-C07E_GRV02A10 / Grandview Pier & Saltponds Beaches [No TMDL] / From southernmost point of Grandview Beach southwest to northeast of Buckroe Beach. Shoreward of GRV01A06. Portion of CBP Segment CB8PH. DSS ADMIN shellfish condemnation # 055-216 A (effective 20080530).	5A	PCBs in Fish Tissue	2006	L	0.119
VAT-C07E_HAR01A06 / Harris River - Upper / South shore trib. to mainstem Back R. Adjacent to Fox Hill area. DSS shellfish condemnation # 054-215 A (effective 20201115). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.198

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_HAR02A10 / Harris River - Mouth / South shore trib. to mainstem Back R. East shore area at mouth. Adjacent to Fox Hill area. CBP Segment MOBPH. DSS (OPEN) shellfish area # 054-215 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.160
VAT-C07E_HAR02B10 / Harris River - Lower Marina Area / South shore trib. to mainstem Back R. Adjacent to Fox Hill area. CBP Segment MOBPH. DSS (Seasonal) shellfish condemnation # 054-215 M2 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.053
VAT-C07E_HOD01A08 / Hodges Creek - Upper / North shore trib to Poquoson R. @ Fish Neck. CBP Segment MOBPH. Portion of DSS shellfish Conditionally Approved -condemnation # 053-137 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.047
VAT-C07E_IN101A08 / DSS Inlet #1 - Unnamed Inlet at Mouth of SW Branch / South shore trib. to mainstem Back R. Located east of mouth of SW Branch. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-021 B (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.025
VAT-C07E_INB01A04 / DSS Inlet #2 - Unnamed Inlet S. Shore of SW Br. Back River / South shore trib. to Southwest Branch Back R. Located near mouth of SW Branch, west of unnamed DSS Inlet #1. DSS Restricted condemnation # 054-021 B (effective 20201115). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.008
VAT-C07E_LMC01A04 / Lambs Creek - Poquoson River / South shore tributary to Poquoson R, west of Poquoson Shores. On border of Poquoson/York boundary. Between Moores Cr. and Roberts Cr to east. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 C (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.135
VAT-C07E_LMC02A16 / Lambs Creek - Mouth / Mouth of Lambs Creek located on South shore tributary to Poquoson R, west of Poquoson Shores. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 C (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.028
VAT-C07E_LON01A06 / Long & Grunland Creeks - Back River / South shore trib. to mainstem Back R. Adjacent to Grandview natural Preserve area. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 C (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.043
VAT-C07E_LON01B12 / Long & Grunland Creeks - Back River / South shore trib. to mainstem Back R. Adjacent to Grandview area. CBP Segment MOBPH. DSS shellfish ADMIN harvesting condemnation # 054-215 C (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.055

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_LON02A10 / Long & Grunland Creeks - DSS Admin Area / South shore trib. to mainstem Back R. Portion adjacent to Grandview area. CBP Segment CB8PH. DSS shellfish harvesting condemnation # 055-216 A ADMIN. Cond. (effective 20080530).	5A	PCBs in Fish Tissue	2006	L	0.085
VAT-C07E_LYO01A06 / Lyons Creek - Upper / South shore tributary to Poquoson R, in area of York Haven Anchorage. East of Roberts Cr. and north of White House Cove. CBP Segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 B (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.070
VAT-C07E_LYO02A06 / Lyons Creek - Middle and Lower / South shore tributary to Poquoson R, in area of York Haven Anchorage. East of Roberts Cr. and north of White House Cove. Lower portion of Lyons Cr. CBP Segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.050
VAT-C07E_NEW01A02 / Newmarket Creek - Upper / South of Blue Bird Gap Farm area. From end of tidal waters at Terrant ES (approx. RM 5.1) downstream to I-64 crossing (RM 3.68). CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.073
VAT-C07E_NEW02A02 / Newmarket Creek - Lower / South of Blue Bird Gap Farm area. From the I-64 crossing (RM 3.68) downstream to confluence with SW Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.079
VAT-C07E_NWB01A06 / Northwest Br. Back River - Upper [TMDL-CD] / CBP Segment MOBPH. Headwaters to confluence of Cedar Creek between Cedar Point and Marsh Point. Portion of DSS shellfish condemnation # 054-021 A (less Cedar/Topping & Brick Kiln Creeks, effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.220
VAT-C07E_NWB01B08 / Northwest Br. Back River - Upper [TMDL not CD] / Northwest Br. Back River upper portion from confluence of Cedar Creek downstream to confluence Tabbs Cr. Portion DSS shellfish condemnation # 054-021 A (less Cedar/Topping & Brick Kiln Creeks, effective 20201115). CBP Segment MOBPH.	5A	PCBs in Fish Tissue	2006	L	0.248
VAT-C07E_NWB02A06 / Northwest Br. Back River - Lower [DSS OPEN] / From area of confluence of Topping Creek (approx. RM 1.5) downstream to confluence with mainstem Back R. CBP Segment MOBPH. Portion of DSS (OPEN) shellfish condemnation # 054-021 (effective 20181018).	5A	PCBs in Fish Tissue	2006	L	0.961

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_POQ01A06 / Poquoson River - Upper [TMDL-CD] / From Rt 17 crossing @ reservoir dam (RM 5.7) downstream to past confluence of Quarter March Cr (RM 2.7) @ Calthrop Neck. Including Moores & Quarter March Creeks. CBP Segment MOBPH. DSS shellfish condemn # 053-137 A (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.518
VAT-C07E_POQ02A06 / Poquoson River - Lower [DSS-OPEN] / From Calthrop Neck downstream to mouth of Hodges Cove. CBP Segment MOBPH. DSS (OPEN) shellfish harvesting condemnation # 053-137 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.834
VAT-C07E_POQ03A08 / Poquoson River - Mouth / From Hunts Point a wedge NW across Poquoson River mouth to northern shore. CBP Segment MOBPH. DSS (OPEN) shellfish harvesting condemnation # 053-999 (effective 20201002).	5A	PCBs in Fish Tissue	2006	L	1.492
VAT-C07E_PTC01A04 / Patricks Creek - Poquoson River / North shore trib to Poquoson River south of Dare area. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 B (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.119
VAT-C07E_ROB01A04 / Roberts Creek - Upper / South of mouth of Poquoson River between Hunts Pt. and Griffins Beach areas. CBP Segment MOBPH. DSS ADMIN Shellfish condemnation # 053-222 A (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.104
VAT-C07E_ROB02A08 / Roberts Creek - Lower [DSS-OPEN] / South of mouth of Poquoson River between Hunts Pt. and Griffins Beach areas. CBP Segment MOBPH. DSS OPEN Shellfish condemnation # 053-222 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.009
VAT-C07E_SWB01A08 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.706
VAT-C07E_SWB02A08 / Southwest Br. Back River - Mouth [DSS OPEN -No TMDL] / Lower portion to confluence with mainstem Back R. CBP Segment MOBPH. Portion of DSS shellfish (OPEN) condemnation # 054-021 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.568
VAT-C07E_SWB03A20 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation seasonally restricted and conditionally condemned areas # 054-021 B (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.413

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_TBC01A04 / Tabbs Creek - NW Br Back River / Tributary to Northwest Branch Back River, entirety of creek. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-021 E (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.073
VAT-C07E_TBC02A10 / Tabbs Creek Mouth - NW Br Back River / Tributary to Northwest Branch Back River, mouth of creek. CBP segment MOBPH. Portion of DSS Conditionally Approved shellfish condemnation # 054-021 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.034
VAT-C07E_THR01A10 / Sandbox Area NW Thorofare / Sandbox Area NW Thorofare Inlet near Goodwin Neck. CBP Segment MOBPH. DSS OPEN condemnation 053-051 (effective 20190515).	5A	PCBs in Fish Tissue	2006	L	0.012
VAT-C07E_WAL01A06 / Wallace Creek - Upper (Back River) / Tributary to south shore Back River, east of Harris R & adjacent to Inlet #2. Most upstream tip of creek. CBP segment MOBPH. DSS (PROHIBITED - ADMIN COND) shellfish condemnation # 054-215 B& D (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.036
VAT-C07E_WAT01A06 / Watts Creek - (NW Br. Back River) / Located southwest of Poquoson. Watts Cr. trib to Northwest Br. of Back R. CBP segment MOBPH. Portion of DSS condemnation # 054-021 (effective 20201115).	5A	PCBs in Fish Tissue	2006	L	0.058
VAT-C07E_WHH01A06 / White House Cove - Bennet Cr. Area / Located in York Haven Anchorage area, south of mouth of Poquoson R, CBP segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 C and seasonal M1 (effective 20200615).	5A	PCBs in Fish Tissue	2006	L	0.145
VAT-C07E_ZZZ01A00 / Unsegmented estuaries in Back River / Non segmented areas of C07E. CBP Segment MOBPH. No DSS direct shellfish harvesting condemnation.	5A	PCBs in Fish Tissue	2006	L	1.040
VAT-C07E_ZZZ01B12 / Unsegmented estuaries in Back River - DSS / Non segmented areas of C07E. CBP Segment MOBPH. DSS Condemnation # 054-021 B (effective date 20201115).	5A	PCBs in Fish Tissue	2006	L	0.097

Chesapeake Bay and Tidal Tributaries VDH Fish Consumption Advisory for PCBs

Fish Consumption	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
PCBs in Fish Tissue - Total Impaired Size by Water Type:	16.028		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-01-SF Brick Kiln Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number #054-021A (effective 20181028).

Cause City/County: Hampton; York County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to DSS shellfish direct harvesting condemnation. Covered under TMDL ID 31233, Back River Northwest Branch (2/9/2018).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BRK01A06 / Brick Kiln Creek / From 0.3 mi. downstream of Big Bethel Res. dam (approx. RM 5.0, end of tidal waters north of Ebenezer Church) downstream to confluence with Northwest Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 A (effective 20201115).	4A	Fecal Coliform	1998	L	0.086

Brick Kiln Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.086		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C07E-02-BAC** **Newmarket Creek - Upper and Lower**

Cause Location: This cause encompasses from the end of tidal waters at Terrant ES (approx. RM 5.1) downstream to confluence with SW Branch Back River. South of Blue Bird Gap Farm area. CBP Segment MOBPH.

Cause City/County: Hampton

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use was impaired in the 2018 IR cycle due to exceedances of the criteria for Enterococcus bacteria, from data collected at the DEQ station @ 7-NEW001.92 (1 viol. / 5 obs.); the impairment was retained in the 2020 IR cycle due to the lack of new data. Data was collected at station 7-NEW000.95 in the 2022 IR cycle, but there was insufficient data to analyze the geometric mean. The impairment will be retained again in the current cycle.

Recreation and Shellfish bacteria impairments covered under TMDL for Back River (EPA approved 8/2/2006 modified 4/24/2014, 2/9/2018). (VAT-C07E-02)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_NEW01A02 / Newmarket Creek - Upper / South of Blue Bird Gap Farm area. From end of tidal waters at Terrant ES (approx. RM 5.1) downstream to I-64 crossing (RM 3.68). CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Enterococcus	2006	L	0.073
VAT-C07E_NEW02A02 / Newmarket Creek - Lower / South of Blue Bird Gap Farm area. From the I-64 crossing (RM 3.68) downstream to confluence with SW Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Enterococcus	2006	L	0.079

Newmarket Creek - Upper and Lower

Recreation

Enterococcus - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
	0.152		

Sources: Discharges from Municipal Separate Storm Sewer Systems (MS4); Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-04-BAC Poquoson River - Upper

Cause Location: This cause encompasses the area from Rt 17 crossing @ reservoir dam (RM 5.7) downstream to past confluence of Quarter March Cr (RM 2.7) @ Calthrop Neck. Including Moores & Quarter March Creeks. CBP Segment MOBPH.

Cause City/County: York County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use is not supporting due to Enterococcus concentrations at station 7-POQ004.1 (21 exceedances / 31 observations) exceeding the swimming indicator criteria. 1998 CD segment for FC (Attachment A, Category 1, Part 1) VAT-C07E-04. Covered under TMDL for Poquoson River (EPA approved 8/2/2006), TMDL EPA approved (VAT-C07E-11-SF) for Fecal Coliform [25403] 8/2/2006, modified 3/19/2014, 2/1/2018.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_POQ01A06 / Poquoson River - Upper [TMDL-CD] / From Rt 17 crossing @ reservoir dam (RM 5.7) downstream to past confluence of Quarter March Cr (RM 2.7) @ Calthrop Neck. Including Moores & Quarter March Creeks. CBP Segment MOBPH. DSS shellfish condemn # 053-137 A (effective 20200615).	4A	Enterococcus	1998	L	0.518

Poquoson River - Upper

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.517		

Sources: Discharges from Municipal Separate Storm Sewer Systems (MS4); Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C07E-05-BAC** SW Br Back R - DSS OPEN [TMDL]

Cause Location: This cause encompasses the headwaters of Southwest Branch downstream to Langley View. CBP segment MOBPH.

Cause City/County: Hampton

Use(s): Recreation; Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Recreation Use is not supporting due to previous Fecal Coliform data recorded @7-SWB000.00 during the 2002 IR which indicated exceedance of the bacteria criteria. There are no current data for Enterococcus bacteria data to assess the Recreation Use. Covered under TMDL for Back River - Southwest Branch was EPA approved [33839] for Fecal Coliform (VAT-C07E-22-SF) 2/1/2018.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_SWB01A08 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Fecal Coliform	1998	L	0.706
VAT-C07E_SWB03A20 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation seasonally restricted and conditionally condemned areas # 054-021 B (effective 20201115).	4A	Fecal Coliform	1998	L	0.413

SW Br Back R - DSS OPEN [TMDL]

Recreation

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
1.119		

SW Br Back R - DSS OPEN [TMDL]

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
1.119		

Sources: Discharges from Municipal Separate Storm Sewer Systems (MS4); Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-05-BAC2 Southwest Br. Back River - Mouth

Cause Location: This cause encompasses the lower portion of the SW Branch Back River to the confluence with mainstem Back River.

Cause City/County: Hampton; Poquoson City

Use(s): Recreation; Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Previous DEQ station showed impairment @7-SWB000.00 for Fecal Coliform bacteria (2002 IR). The Recreation Use impairment is retained due to previous Fecal Coliform data recorded during the 2002 IR which indicated exceedance of the bacteria criteria.

There is currently insufficient data to override the current recreation impairment. Station 7-SWB000.00 and 7-SWB000.34 each have only one sample within the assessment window.

Area included in the modified Back River TMDL 4/24/14, 2/9/2018.

Segment was nested in the 2014 IR however now based on the modified TMDL for Back River EPA approved 4/14/2014 this segment is included and no longer needs to be nested.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_SWB02A08 / Southwest Br. Back River - Mouth [DSS OPEN -No TMDL] / Lower portion to confluence with mainstem Back R. CBP Segment MOBPH. Portion of DSS shellfish (OPEN) condemnation # 054-021 (effective 20201115).	4A	Fecal Coliform	2002	L	0.568

Southwest Br. Back River - Mouth

Recreation

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.568		

Southwest Br. Back River - Mouth

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.568		

Sources: Discharges from Municipal Separate Storm Sewer Systems (MS4); Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-06-SF Lambs Creek - Poquoson River

Cause Location: This cause encompasses this south shore tributary to Poquoson R, west of Poquoson Shores. On border of Poquoson/York boundary. Between Moores Creek and Roberts Cr to east. CBP Segment MOBPH.

Cause City/County: Poquoson City

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is impaired based on DSS Condemnation # 053-137 C (effective 20180425). This AU (part of Lambs Cr) was delisted in 2016 for Fecal Coliform - C07E-06-SF (1998).

Lambs Creek is covered under TMDL for Poquoson River - Lambs Creek [EPA approved 8/2/2006, VAT-C07E-06-SF for Fecal Coliform [31190] 8/2/2006, modified 3/19/2014.].

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_PUN01A06 / Pungoteague Creek - Upper / W of Melfa. Upper portion of Pungoteague Cr. from the end of tidal waters downstream to Boggs Wharf and Route 634. CBP segment CB7PH. DSS condemnation # 081-119 B (effective 20200518).	4A	Fecal Coliform	1998	L	0.232
VAT-C12E_WRP02A06 / Warehouse Prong - Lower / Located north of Bobtown and east of Boggs Wharf. Lower portion, from confluence with UT downstream to confluence with Pungoteague Cr. Portion of CBP segment CB7PH. DSS (Admin Cond) condemnation # 081-119 B (effective 20200518).	4A	Fecal Coliform	2022	L	0.054

Pungoteague Creek - Upper, Warehouse Prong- Lower

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.286		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C12E-11-SF** Taylor Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 081-119 C 20200518.

Cause City/County: Accomack County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: DSS shellfish condemnation # 081-119 C effective date 20200518. The Shellfishing Use is impaired due to the DSS shellfish harvesting condemnation which is present. Covered under TMDL (25416) "Taylor Creek" for VAT-C12E-03-SF (EPA approved 6/7/06).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_TAY01A06 / Taylor Creek / Located southwest of Harborton. From the end of tidal waters downstream Route 628 and Eastern Shore Yacht Club. Portion of CBP segment CB7PH. Portion of DSS condemnation # 081-119 C (effective 20200518).	4A	Fecal Coliform	1998	L	0.13

Taylor Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.13		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C12E-12-SF** Underhill Creek

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 081-119 A (effective 20200518).

Cause City/County: Accomack County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is impaired due to the DSS condemnation # 081-119 A (effective 20200518). Covered under TMDL (25416) "Taylor Creek" for VAT-C12E-03-SF (EPA approved 6/7/06).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_UNR01A06 / Underhill Creek / In area of Mount Nebo. North shore tributary to Pungoteague Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 081-119 A (effective 20200518).	4A	Fecal Coliform	2006	L	0.07

Underhill Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.07		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C12E-13-SF** Taylor Creek- Mouth

Cause Location: Located southwest of Harborton. From Route 628 and Eastern Shore Yacht Club to Puncoteague confluence. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 &M1 (effective 20180321).

Cause City/County: Accomack County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is impaired based on Restricted-condemnation # 081-119 M1 (effective 20180321).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_TAY02A14 / Taylor Creek- Mouth / Located southwest of Harborton. From Route 628 and Eastern Shore Yacht Club to Puncoteague confluence. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 C (effective 20200518).	4A	Fecal Coliform	2020	L	0.033

Taylor Creek- Mouth

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.032		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C12E-14-SF** **Upper Warehouse Prong**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 081-119 B (effective 20200518).

Cause City/County: Accomack County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is impaired due to the DSS condemnation# 081-119 B (effective 20200518).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_WRP01A06 / Warehouse Prong - Upper / Located north of Bobtown and east of Boggs Wharf. Upper portion, from headwaters to confluence with UT. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 B (effective 20200518).	4A	Fecal Coliform	2022	L	0.042

Upper Warehouse Prong

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.042		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C12R-01-BEN Taylor Creek

Cause Location: This cause encompasses the riverine portion of Taylor Creek, from the point where stream forks north of Rt 180 downstream to the confluence of UT below Rt 178.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use impairment is due to monitored impacts to the stream's benthic population. Assessment is based on biological benthic monitoring with VCPMI [2020: S=18 F= 25 2013: S=17.3 & 2010: S=11.9, F=9.7] at Station 7-TAY003.11.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12R_TAY01A04 / Taylor Creek / Located east of Town of Pungoteague. From point where stream forks north of Rt 180 downstream to confluence of UT below Rt 178.	5A	Benthic Macroinvertebrates Bioassessments	2004	L	0.91

Taylor Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.91

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C12R-02-BEN Bull Branch

Cause Location: This cause encompasses the riverine portion of Bull Branch, from headwaters near Rt 609 (Accomack Co. Airport) downstream to confluence with eastern prong of upper Pungoteague Creek.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use impairment is retained for the 2014 IR due to impacts to the stream's benthic population. Benthic impairment assessment is based on biological benthic monitoring noting MI [MI: S&F-03, S-04; SI: F-04] at DEQ (BIO) station @ 7-BBR001.31.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12R_BBR01A08 / Bull Branch / Located east of Town of Pungoteague. Eastern tributary to upper eastern prong of Pungoteague Cr. From headwaters near Rt 609 (Accomack Co. Airport) downstream to confluence with eastern prong of upper Pungoteague Cr.	5A	Benthic Macroinvertebrates Bioassessments	2008	L	2.25

Bull Branch

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		2.25

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C12R-03-BAC Taylor Creek

Cause Location: Located east of Town of Pungoteague. From point where stream forks north of Rt 180 downstream to confluence of UT below Rt 178.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: The Recreation Use impairment is retained current data is insufficient to assess with one STV exceedance in one or multiple 90-day periods but insufficient data to analyze geomean. Impairment listing based on E. coli data (4 exc / 12 obs) collected @ Station 7-TAY003.11.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12R_TAY01A04 / Taylor Creek / Located east of Town of Pungoteague. From point where stream forks north of Rt 180 downstream to confluence of UT below Rt 178.	5A	Escherichia coli (E. coli)	2020	L	0.91

Taylor Creek

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			0.91

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13E-02-BAC** Nassawadox Creek - Lower

Cause Location: This cause encompasses the lower mainstem of Nassawadox Creek. Portion of CBP segment CB7PH.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use is impaired based on Enterococcus bacteria data which has 2 or more STV hits in the same 90-day period with <10 samples at DEQ (AQM) station @ 7-NSS001.62. This segment is covered under revised TMDL for “Nassawadox Creek Watershed” (33777) EPA approved 8/15/2017.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_NSS02A06 / Nassawadox Creek - Lower / Mainstem of lower portion of creek to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 085-110 & 085-185 (effective 20191115).	4A	Enterococcus	2008	L	2.121

Nassawadox Creek - Lower

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	2.121		

Sources: Agriculture; Animal Feeding Operations (NPS); Livestock (Grazing or Feeding Operations); On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers; Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C13E-11-SF Church Creek -Upper

Cause Location: This cause encompasses the area of Elliotts Neck. Tributary to Nassawadox Creek, upstream portion of Church Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-185 B (effective 20191115).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is impaired based on the DSS shellfish direct harvesting condemnation # 085-185 B (effective 20191115). Previous Use ID (2006 IR) as TMDL ID: VAT-C13E-11. TMDL for "Nassawadox Creek Watershed" (33777) EPA approved 9/20/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_CHC01B16 / Church Creek -Upper / In area of Elliotts Neck. Tributary to Nassawadox Creek, upstream portion of Church Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-185 B (effective 20191115).	4A	Fecal Coliform	2016	L	0.165

Church Creek -Upper

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shellfishing			
Fecal Coliform - Total Impaired Size by Water Type:	0.165		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C13E-11-SF2 Church Creek - Middle, UT North and South Cove

Cause Location: This cause encompasses the area of Elliotts Neck. Tributary to Church Creek - Middle, UT North & South Coves. Portion of CBP segment.

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is impaired due to the DSS shellfish direct harvesting condemnation # 085-185 A & D (effective 20191115). Impairment included in revised TMDL for "Nassawadox Creek Watershed" (33777) EPA approved 9/20/2007, 2/1/2018.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_CHC01C10 / Church Creek - Middle-UT North Cove / In area of Elliotts Neck. Tributary to Church Creek - Middle, UT North Cove. Portion of CBP segment CB7PH. DSS shellfish harvesting condemnation # 085-185 A (effective 20191115).	4A	Fecal Coliform	2004	L	0.059
VAT-C13E_CHC01D22 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted # 085-185 D (effective 20191115).	4A	Fecal Coliform	2022	L	0.050

Church Creek - Middle, UT North and South Cove

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.109		

Sources: Agriculture; Livestock (Grazing or Feeding Operations); On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers; Wastes from Pets; Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13E-12-SF** Craddock Creek - Upper [TMDL-bact.]

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 085-110 A (effective 20121210).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: DSS shellfish direct harvesting condemnation # 083-195 A (effective 20121210). Previous Use ID (2006 IR) as TMDL ID: VAT-C13E-12.

Covered under TMDL for “Craddock Creek” (25417) EPA approved 6/7/2006.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_CRA01A06 / Craddock Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to end of shellfish condemnation (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 083-195 A (effective 20121210).	4A	Fecal Coliform	1998	L	0.082

Craddock Creek - Upper [TMDL-bact.]

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.082		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13E-13-SF** Holly Grove Cove- Upper and Kelley Cove

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 085-110 B &E (effective 20201115).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: DSS shellfish direct harvesting condemnation # 085-110 B&E (effective 20201115). Previous Use ID (2006 IR) as TMDL ID: VAT-C13E-13. Covered under TMDL for "Nassawadox Creek Watershed" (33777) EPA approved 9/20/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_HGC01A06 / Holly Grove Cove- Upper / Located near Wellington Neck. From end of tidal waters downstream to mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-110 E (effective 20201115).	4A	Fecal Coliform	1998	L	0.143
VAT-C13E_KLL01A06 / Kelley Cove / From end of tidal waters downstream to confluence with Nassawadox Cr. (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	4A	Fecal Coliform	1998	L	0.026

Holly Grove Cove- Upper and Kelley Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.168		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13E-14-SF** Nassawadox Creek - Upper [TMDL-bact.]

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 085-110 B(effective 20201115).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: DSS shellfish direct harvesting condemnation # 085-110 B(effective 20201115). Covered under TMDL for "Nassawadox Creek Watershed" (33777) EPA approved 9/20/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_NSS01A06 / Nassawadox Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to confluence with Kelly Cove (RM 5.2) area of TMDL-bact 6/07. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	4A	Fecal Coliform	1998	L	0.205

Nassawadox Creek - Upper [TMDL-bact.]

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.205		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C13E-15-SF Occohannock Creek - Upper

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation# 084-043 A (effective 20190107).

Cause City/County: Accomack County; Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: DSS condemnation# 084-043 A (effective 20190107). Covered under TMDL for “Occohannock Creek” (38189) EPA approved 6/7/2006).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_OCH01A06 / Occohannock Creek - Upper / Upper portion of Occohannock Creek and tidal tribs., from end of tidal waters downstream to Creekside Dr at end of SF restricted area. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 A (effective 20201215).	4A	Fecal Coliform	1998	L	0.538

Occohannock Creek - Upper

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.538		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C13E-18-SF McLean Gut

Cause Location: This cause encompasses the middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 082-160 B (effective 20200515).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting based on the DSS shellfish direct harvesting condemnation # 082-160 (effective 20200515). The EPA approved TMDL (6/7/2006) for Nandua & Currituck Cr includes most of the impaired area excluding the mouth. The mouth of McLean will be nested in 2022 based on similar land use and reductions proposed in the TMDL. No additional point sources.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_MAG01A08 / McLean Gut - Upper / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	4A	Fecal Coliform	1998	L	0.038
VAT-C13E_MAG02A08 / McLean Gut - Lower / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	4A	Fecal Coliform	2022	L	0.032

McLean Gut

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.069		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13E-19-SF** Nandua Creek - Upper [TMDL-bact.]

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 082-160 A & C (effective 20200515).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to DSS shellfish direct harvesting condemnation # 082-160 A & C (effective 20200515). Previous Use ID (2006 IR) as TMDL ID: VAT-C13E-19

Covered under TMDL for “Nandua and Currituck Creeks” (25419) EPA approved 6/7/2006.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_NAN01A00 / Nandua Creek - Upper [TMDL-bact.] / Southeast of Hacks Neck area. The two most upstream branches of Nandua Creek, incl. Kusian Cove. Portion of CBP segment CB7PH. DSS condemnation # 082-160 A&C (effective 20200515).	4A	Fecal Coliform	1998	L	0.144

Nandua Creek - Upper [TMDL-bact.]

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.144		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13E-20-SF** Nassawadox Creek - Middle, N. Shore Tribs

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 085-110 A & C (effective 20201115).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to DSS shellfish direct harvesting condemnation # 085-110 A & C (effective 20201115). Covered under revised TMDL for “Nassawadox Creek Watershed” (68338) EPA approved 8/5/2017.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_NSS03A08 / Nassawadox Creek - Middle, N. Shore Tribs / Occohannock Neck Area. North Shore UTs to lower-middle mainstem Nassawadox. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 A & C(effective 20201115).	4A	Fecal Coliform	2008	L	0.126

Nassawadox Creek - Middle, N. Shore Tribs

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.126		

Sources: Agriculture; Livestock (Grazing or Feeding Operations); On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers; Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C13E-22-SF Shields Cove and Fisher Cove

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation # 084-043 B & C (effective 20190107).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to DSS shellfish direct harvesting condemnation # 084-043 B & C (effective 20190107).

Not covered under TMDL for "Occohannock" (38189) EPA approved 6/7/2006). However will nest since SF impairment is within tidal range of Occohannock Creek TMDL, newly impaired segments are comparable and all existing sources are accounted for in the TMDL. (NESTED 2014: 38189, 6/7/2006.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_OCH03A08 / Shields Cove & Fisher Cove / West of Belle Haven area. North and South shore tributaries of Occohannock Cr., NW of Youngs Pt. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 B & C (effective 20201215).	4A	Fecal Coliform	2008	L	0.087

Shields Cove and Fisher Cove

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.087		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C13E-23-SF Boggs Gut

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 082-160 D (effective 20200515)

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/5B

Cause Description: The Shellfishing Use is not supporting due to DSS shellfish direct harvesting condemnation # 082-160 D (effective 20200515). No TMDL.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_BOS01A08 / Boggs Gut / Southwest of Fairview Neck area. South shore tributary of Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 D (effective 20200515)	5B	Fecal Coliform	2022	L	0.034

Boggs Gut

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.034		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13E-24-EBEN** Church Creek

Cause Location: This cause encompasses the lower mainstem area of Church Creek, a tributary to Nassawadox Creek.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Estuarine Bioassessments/5A

Cause Description: Aquatic Life Use is not supporting based on station 7BCCR000.74 2020 benthic WoE data. WoE analysis listed as impaired with a category 5A. Station data suggests strong evidence for pollution induced degradation.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_CHC01A00 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting OPEN # 085-185 (effective 20191115).	5A	Estuarine Bioassessments	2022	L	0.323

Church Creek

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Estuarine Bioassessments - Total Impaired Size by Water Type:	0.323		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C13R-01-BEN** Taylor Branch - Occohannock Creek

Cause Location: This cause encompasses Taylor Branch, from the confluence of two branches upstream of station downstream to the confluence with Occohannock Creek.

Cause City/County: Accomack County; Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use is impaired due to impacts to the stream's benthic population. Assessment is based on biological benthic monitoring in 2010 using VCPMI scoring [2010_IM: S=11.9, F=9.7] at DEQ (BIO) station @ 7-TLR000.75.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13R_TLR01A08 / Taylor Branch - Occohannock Cr. / West of Painter. Tributary to most upstream portion of Occohannock Creek, west of Town of Painter. From confluence of two branches upstream of station downstream to the confluence with Occohannock Creek.	5A	Benthic Macroinvertebrates Bioassessments	2008	L	2.32

Taylor Branch - Occohannock Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		2.32

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C14E-01-BAC Hungars Creek - Upper

Cause Location: This cause encompasses the upper portion of Hungars Creek from end tidal waters downstream to Waterford Point (RM 1.8) @ confluence with Jacobus Creek.

Cause City/County: Northampton County

Use(s): Recreation; Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Fecal Coliform impairment is retained from the 2006 IR as there is insufficient Enterococci bacteria data to verify the assessment status. No STV exceedances but insufficient data to analyze geomean data from station 7-HUG004.40.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_HUG01A00 / Hungars Creek - Upper / Upper portion of Hungars Creek from end tidal waters downstream to end of TMDL boundary near Holloway Dr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A (effective 20200915).	4A	Fecal Coliform	1998	L	0.058
VAT-C14E_HUG01B22 / Hungars Creek - Upper / Upper portion of Hungars Creek from end of TMDL boundary near Holloway Dr to start of open shellfish area near Park Ln. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A & S195 (effective 20200915).	4A	Fecal Coliform	1998	L	0.080

Hungars Creek - Upper

Recreation

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.138		

Hungars Creek - Upper

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.138		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C14E-11-SF Hungars Creek - Upper

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 086-136 A, 20200915.

Cause City/County: Northampton County

Use(s): Recreation; Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to DSS shellfish Restricted direct harvesting condemnation # 086-136 A effective 20200915.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_HUG01A00 / Hungars Creek - Upper / Upper portion of Hungars Creek from end tidal waters downstream to end of TMDL boundary near Holloway Dr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A (effective 20200915).	4A	Fecal Coliform	1998	L	0.058
VAT-C14E_HUG01B22 / Hungars Creek - Upper / Upper portion of Hungars Creek from end of TMDL boundary near Holloway Dr to start of open shellfish area near Park Ln. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A & S195 (effective 20200915).	4A	Fecal Coliform	1998	L	0.080

Hungars Creek - Upper

Recreation

	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles) 0.138	Reservoir (Acres)	River (Miles)
--	---	---------------------------------	----------------------	------------------

Hungars Creek - Upper

Shellfishing

	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles) 0.138	Reservoir (Acres)	River (Miles)
--	---	---------------------------------	----------------------	------------------

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C14E-13-SF Mattawoman Creek - Upper

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation# 086-136 S48 & D (effective 20200915).

Cause City/County: Accomack County; Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to DSS shellfish direct harvesting condemnation. The Shellfishing Use is impaired based on the DSS restricted and seasonal shellfish harvesting condemnation which is present. TMDL 38541 EPA Approved 5/6/2010; SWCB Approved 9/30/2012.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_MAT01A06 / Mattawoman Creek - Upper / South of Wilsonia Neck. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 D & S48 (effective 20200915).	4A	Fecal Coliform	2006	L	0.155

Mattawoman Creek - Upper

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.155		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C14E-14-SF** **The Gulf - Upper**

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 087-174 A (effective 20150827).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: DSS shellfish direct harvesting condemnation # 087-174 A (effective 20150827). The Shellfishing Use is impaired due to the DSS shellfish harvesting condemnation which is present. Previous Use ID (2006 IR) as TMDL ID: VAT-C14E-14. This impairment is covered under TMDL for “The Gulf” (33770) VAT-C14E-14-SF, EPA approved 9/20/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_THG01A06 / The Gulf - Upper / From end of tidal waters downstream to narrowing 0.45 mi. from mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 087-174 A (effective 20150827).	4A	Fecal Coliform	1998	L	0.09

The Gulf - Upper

Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.09		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C14E-16-SF Westerhouse Creek - Upper and Middle South Branch [TMDL]

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 085-199 A (effective 20181115).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Portion DSS shellfish direct harvesting condemnation # 085-199 A (effective 20181115). Previous Use ID (2006 IR) as TMDL ID: VAT-C14E-16.

Covered under TMDL for "Nassawadox Creek Watershed" (33777) EPA approved 9/20/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_WHS02A06 / Westerhouse Creek - Upper South Branch [TMDL] / In Church Neck area, west of Bridgetown. Upper portion of Westerhouse Creek South Branch. Portion of CBP segment CB7PH. Portion DSS shellfish direct harvesting condemnation # 085-199 A (effective 20181115).	4A	Fecal Coliform	1998	L	0.019

Westerhouse Creek - Upper and Middle South Branch [TMDL]

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.019		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C14E-18-SF** **UT to Hungars Creek**

Cause Location: This cause encompasses the Northern trib between Great Neck and Sparrow Point. Restricted portion of SF. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 C (effective 20200915).

Cause City/County: Accomack County; Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Shellfish Use is impaired based on DSS shellfish direct harvesting condemnation # 086-136 C (effective 20200915).

2016 nested under TMDL for “Hungars Creek Watershed” (34370) EPA approved 4/30/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_HUG02B12 / UT to Hungars Creek / Northern trib between Great Neck and Sparrow Point. Restricted portion of SF. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 C (effective 20200915).	4A	Fecal Coliform	2012	L	0.039

UT to Hungars Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.038		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C14E-20-SF** Upper Westerhouse Creek - North Branch and Upper Middle [TMDL]

Cause Location: In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted-condemnation # 085-199 (20181115).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is now impaired based on the DSS shellfish direct harvesting Restricted-condemnation # 085-199 (effective 20181115).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_WHS03A20 / Upper Westerhouse Creek - North Branch& Upper Middle [TMDL] / In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted-condemnation # 085-199 (20181115).	4A	Fecal Coliform	2020	L	0.03

Upper Westerhouse Creek - North Branch and Upper Middle [TMDL]

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.03		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C15E-10-SF Kings Creek - Upper Forks and Middle

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation# 088-139 A (effective 20180821).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: Shellfishing Use is impaired due to the DSS shellfish direct harvesting condemnation # 088-139 A (effective 20180821). Previous Use ID (2006 IR) as TMDL ID: VAT-C15E-10. This impairment is covered under TMDL for “Cherrystone Inlet” which includes Kings Creek (33772) VAT-C15E-10-SF, EPA approved 9/20/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C15E_KNS01A00 / Kings Creek - Upper Forks and Middle / From end of tidal waters downstream 0.16 mi. past confluence of the two most upstream forks. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 088-139 A (20180821).	4A	Fecal Coliform	1998	L	0.093

Kings Creek - Upper Forks and Middle

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.092		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C16E-10-SF** Old Plantation Creek - Upper [TMDL]

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation # 090-152 A (effective 20190815).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to the DSS shellfish harvesting condemnation # 090-152 A (effective 20190815). This impairment is covered under TMDL for “Old Plantation and Elliot Creeks” (33772) VAT-C16E-10-SF, EPA approved 8/30/2007.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C16E_OPC01A06 / Old Plantation Creek - Upper [TMDL-bact] / Upper portion of Old Plantation Creek within TMDL-Bact (33771). CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	4A	Fecal Coliform	1998	L	0.044

Old Plantation Creek - Upper [TMDL]

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.044		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C16E-10-SF2 Old Plantation Creek - Upper

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 090-152 A,B,C 12/22/2015.

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting due to the DSS shellfish harvesting condemnation # 090-152 A,B,C (effective 20151222). This impairment is NOT covered under TMDL for “Old Plantation and Elliot Creeks” (33771) VAT-C16E-10-SF, EPA approved 8/30/2007. However the impairment was nested in 2014 IR since SF impairment is within tidal range of Old Plantation and Elliot Creeks TMDL, newly impaired segments are comparable and all existing sources are accounted for in the TMDL.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C16E_OPC01B08 / Old Plantation Creek - Upper [No TMDL-bact] / Upper portion of Old Plantation Creek and one southeast embayment not within TMDL-Bact (33771). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	4A	Fecal Coliform	2008	L	0.152

Old Plantation Creek - Upper

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary	Reservoir	River
		(Sq. Miles)	(Acres)	(Miles)
		0.152		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **CB5MH-DO-BAY** Chesapeake Bay segment **CB5MH-VA**

Cause Location: This area encompasses the complete CBP segment CB5MH_VA.

Cause City/County: Chesapeake Bay - County Not Applicable; Lancaster County; Northumberland County

Use(s): Aquatic Life; Deep-Channel Seasonal Refuge; Deep-Water Aquatic Life; Open-Water Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4A

Cause Description: The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. These criteria are based on segment-wide dissolved oxygen and submerged aquatic vegetation criteria.

In the 2020 cycle, CB5MH failed the 30-day summer Open Water dissolved oxygen criteria. The rest-of-year 30-day mean criteria was met and there is insufficient information to assess other frequencies.

The estuary passes both the summer and rest-of-year criteria in the 2022 cycle and the subuse will be partially delisted.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010; therefore, CB5MH is considered Category 2C.

Applicable portions of the mesohaline Chesapeake Bay estuary and applicable small tributaries fail the Deep Water- and Deep Channel dissolved oxygen criteria (Category 4A.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-CB5 / Chesapeake Bay - VA portion of CBP Segment CB5MH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment CB5MH, located in the northern part of the Virginia mainstem Bay from the mouth of the Rappahannock River and northward. HUC: 02080101.	4A	Dissolved Oxygen	2004	L	185.846
VAP-C01E_ANT01C08 / Antipoison Creek, UT / Described in VDH-DSS condemnation notice 017-188B, 11/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2020	L	0.013
VAP-C01E_ANT02A08 / Antipoison Creek / Downstream of condemnation notice 017-188, 11/15/2020 not otherwise segmented. Merged in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2020	L	0.325
VAP-C01E_ASH01A10 / Ashleys Cove / Described in VDH-DSS condemnation 016-024D, 1/28/2005 CB5MH	4A	Dissolved Oxygen	2016	L	0.056
VAP-C01E_BAL01A02 / Ball Creek / Portion of VDH condemnation notice 014-124B, 6/2/1997 open in 014-124, 6/15/2020 Size reduced in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2020	L	0.010
VAP-C01E_BAL02A02 / Ball Creek / From VDH-DSS Condemnation 124B, 6/2/1997, downstream to its mouth. CB5MH	4A	Dissolved Oxygen	2020	L	0.128

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BEL01A08 / Bells Creek / Described in VDH condemnation 016-057B, 12/13/2006. CB5MH	4A	Dissolved Oxygen	2002	L	0.042
VAP-C01E_BLA01B22 / Blackwells Creek / Described in VDH-DSS Condemnation 013-089S181, 6/15/2020. CB5MH	4A	Dissolved Oxygen	2020	L	0.016
VAP-C01E_BLS01A02 / Balls Creek / Described in VDH-DSS condemnation notice 89B, 5/28/1997. CB5MH	4A	Dissolved Oxygen	2006	L	0.064
VAP-C01E_BLS02A08 / Balls Creek / Portion of condemnation notice 013-089F, 6/15/2020 not included in 89B, 5/28/1997. Size reduced in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2006	L	0.042
VAP-C01E_BLS03A22 / Balls Creek / Described in VDH-DSS Condemnation 013-089S179, 6/15/2020 CB5MH	4A	Dissolved Oxygen	2006	L	0.022
VAP-C01E_BMS01A12 / Bush Mill Stream / Tidal limit to mouth at Great Wicomico River CB5MH	4A	Dissolved Oxygen	2020	L	0.095
VAP-C01E_BRS01A08 / Barnes Creek / Portion of VDH-DSS condemnation 016-057C, 12/13/2006 open in 016-057, 11/15/2020. Split in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2008	L	0.194
VAP-C01E_BRS01B20 / Barnes Creek / Portion of VDH-DSS condemnation 12/13/2006 open on 016-057, 11/15/2020. CB5MH	4A	Dissolved Oxygen	2008	L	0.023
VAP-C01E_BRS01C20 / Barnes Creek / Described in VDH-DSS condemnation 016-057B, 11/15/2020. Shrank in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2008	L	0.062
VAP-C01E_BRS01D22 / Barnes Creek / Portion of VDH-DSS condemnation 016-057C, 12/13/2006 open in 016-057, 11/15/2020. CB5MH	4A	Dissolved Oxygen	2008	L	0.031
VAP-C01E_CLE02A06 / Cloverdale Creek / Downstream of condemnation notice 014-124A, 6/2/1997. CB5MH	4A	Dissolved Oxygen	2020	L	0.056
VAP-C01E_COC01A98 / Cockrell Creek / As described in VDH-DSS Shellfish Condemnation 012-002B, 8/15/2020. CB5MH	4A	Dissolved Oxygen	2020	L	0.612

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_COC03A98 / Cockrell Creek / Described in the condemnation notice. VDH-DSS SFC 012-002C, 8/15/2020. CB5MH	4A	Dissolved Oxygen	2020	L	0.035
VAP-C01E_COC04A20 / Cockrell Creek / Portion of VDH-DSS Condemnation Notice 012-002A, 9/22/2005 open 8/15/2020 CB5MH	4A	Dissolved Oxygen	2020	L	0.202
VAP-C01E_COC04B10 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002A, 8/15/2020 CB5MH	4A	Dissolved Oxygen	2020	L	0.198
VAP-C01E_COC04C22 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002S194, 8/15/2020. CB5MH	4A	Dissolved Oxygen	2020	L	0.070
VAP-C01E_COC05A06 / Cockrell Creek / From VDH-DSS SFC 012-002A, 9/22/2005 downstream to mouth at Fleet Point. CB5MH	4A	Dissolved Oxygen	2020	L	0.152
VAP-C01E_DIV01A98 / Dividing Creek / Described in VDH-DSS condemnation 015-022A, 6/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2020	L	0.091
VAP-C01E_DIV01B12 / Dividing Creek / Portion of VDH-DSS condemnation 022, 2/27/1997 open on 015-022, 6/15/2020. Size reduced in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2016	L	0.138
VAP-C01E_DIV03A00 / Dividing Creek / From the downstream limit of VDH-DSS SFC 022, 2/27/1997, to the mouth at Chesapeake Bay. CB5MH	4A	Dissolved Oxygen	2006	L	0.816
VAP-C01E_DYM01A98 / Dymer Creek / Described in VDH-DSS condemnation notice 016-024A, 11/15/2020 and portion of 016-024D, 11/15/2020 within mainstem Dymer Creek. CB5MH	4A	Dissolved Oxygen	2020	L	0.190
VAP-C01E_DYM01B14 / Dymer Creek / Portion of VDH-DSS SFC 016-024A 1/28/2005 not condemned on 11/15/2020. Expanded in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2020	L	0.110
VAP-C01E_DYM02A00 / Dymer Creek / Dymer Creek downstream of VDH-DSS SFC 016-024A 1/28/2005 unless otherwise segmented. Size increased in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2016	L	0.665

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_DYM02B20 / Georges Cove / Portion of 016-024S114, 11/15/2020 not located within VDH-DSS SFC 016-024A or -E, 1/28/2005. Size reduced in the 2022 cycle and is now limited to Georges Cove. CB5MH	4A	Dissolved Oxygen	2016	L	0.020
VAP-C01E_FLB01A00 / Fleets Bay / Fleets Bay north of Bluff Point at Barnes Creek south to Fleets Island. CB5MH Size adjusted in 2006 cycle.	4A	Dissolved Oxygen	2002	L	5.177
VAP-C01E_GEO01A98 / Georges Cove / Portion of condemnation notice 016-024E, 1/28/2005 not closed 11/15/2020. CB5MH	4A	Dissolved Oxygen	2016	L	0.016
VAP-C01E_GEO01B20 / Georges Cove / Described in condemnation notice 016-024B, 1/15/2020. CB5MH	4A	Dissolved Oxygen	2016	L	0.018
VAP-C01E_GOU01A06 / Gougher Creek / Described in VDH-DSS Shellfish Condemnation 013-220S84, 6/15/2020 Size reduced in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2006	L	0.036
VAP-C01E_GWR01A98 / Great Wicomico River / Portion of condemnation notice 013-089A, 6/15/2020 which is not administratively closed, excluding Head River Branch and Bush Mill Stream CB5MH	4A	Dissolved Oxygen	2020	L	0.232
VAP-C01E_GWR01B08 / Great Wicomico River / Portion of VDH-DSS condemnation 013-089S182, 6/15/2020 not included in 089A, 5/28/1997. Split in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2020	L	0.070
VAP-C01E_GWR01C10 / Great Wicomico River / Portion of condemnation notice 089A, 5/28/1997 which is administratively closed CB5MH	4A	Dissolved Oxygen	2020	L	0.058
VAP-C01E_GWR01D22 / Great Wicomico River / Portion of condemnation notice 089A, 5/28/1997 which is within 013-089S182, 6/15/2020 CB5MH	4A	Dissolved Oxygen	2020	L	0.036
VAP-C01E_GWR02A00 / Great Wicomico River / From VDH-DSS SFC 013-089S182, 6/15/2020 downstream to Rogue Point unless otherwise segmented. Size reduced in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2006	L	1.883

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_GWR02B06 / Great Wicomico River / As described in VDH-DSS Shellfish Condemnation 013-089M2, 6/15/2020 CB5MH	4A	Dissolved Oxygen	2016	L	0.017
VAP-C01E_GWR02C06 / Great Wicomico River / As described in VDH-DSS Shellfish Condemnation 013-089M1, 6/15/2020 CB5MH	4A	Dissolved Oxygen	2006	L	0.008
VAP-C01E_GWR02D12 / Great Wicomico River / VDH-DSS Condemnation 013-089M3, 6/15/2020 CB5MH	4A	Dissolved Oxygen	2006	L	0.008
VAP-C01E_GWR02E16 / Great Wicomico River, UT / Described in VDH-DSS condemnation 013-089S82, 5/1/2018 CB5MH	4A	Dissolved Oxygen	2006	L	0.033
VAP-C01E_GWR03A06 / Great Wicomico River / From Rogue Point (GWR02A00) downstream to Ingram Bay at Dameron Marsh. CB5MH	4A	Dissolved Oxygen	2006	L	5.651
VAP-C01E_HEN02A14 / Henrys Creek / Downstream of 016-057C, 1/28/2005 CB5MH	4A	Dissolved Oxygen	2006	L	0.103
VAP-C01E_HNT01A98 / Hunts Cove / Described in the condemnation notice 016-024B, 1/28/2005. CB5MH	4A	Dissolved Oxygen	2016	L	0.040
VAP-C01E_IND01A98 / Indian Creek / Portion of VDH-DSS condemnation notice 016-057A, 11/15/2020 that is not administratively condemned. CB5MH	4A	Dissolved Oxygen	2016	L	0.331
VAP-C01E_IND01B10 / Indian Creek / Administratively condemned portion of VDH-DSS condemnation notice 016-057A, 11/15/2020. CB5MH	4A	Dissolved Oxygen	2016	L	0.037
VAP-C01E_IND01C10 / Indian Creek / Portion of condemnation notice 016-057A, 12/13/2006 seasonally condemned on 11/15/2020. CB5MH	4A	Dissolved Oxygen	2016	L	0.042
VAP-C01E_IND03A00 / Indian Creek / Indian Creek from end of condemnation 016-057A, 12/13/2006, downstream to mouth unless otherwise segmented. Expanded in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2002	L	0.595
VAP-C01E_IND03B06 / Indian Creek / Portion of VDH-DSS Seasonal Shellfish Condemnation 016-057S110, 11/15/2020 not addressed in the TMDL. Shortened and split in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2002	L	0.005

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_IND03C22 / Indian Creek / Described in VDH-DSS Condemnation 016-057M1, 11/15/2020. CB5MH	4A	Dissolved Oxygen	2002	L	0.017
VAP-C01E_JAR02A10 / Jarvis Creek / Downstream of VDH condemnations CB5MH	4A	Dissolved Oxygen	2020	L	0.200
VAP-C01E_JOH01A06 / Johnson Creek / As described in VDH-DSS SFC 016-024S112, 11/15/2020 CB5MH	4A	Dissolved Oxygen	2016	L	0.029
VAP-C01E_LTB01A02 / Little Bay / Little Bay CB5MH	4A	Dissolved Oxygen	2020	L	1.147
VAP-C01E_MIL01A98 / Mill Creek / Described in the condemnation notice 123, 6/2/1997. CB5MH	4A	Dissolved Oxygen	2020	L	0.241
VAP-C01E_MIL01B06 / Mill Creek / Mouth of Mill Creek at Ingram Bay CB5MH	4A	Dissolved Oxygen	2006	L	1.173
VAP-C01E_MIL02A08 / Mill Creek / Portion of VDH Condemnation 014-123A, 6/15/2020 not included in the notice 123, 6/2/1997. CB5MH	4A	Dissolved Oxygen	2020	L	0.027
VAP-C01E_MIL03A08 / Mill Creek / Middle Mill Creek downstream of condemnations to Ingrams Bay. CB5MH	4A	Dissolved Oxygen	2020	L	0.146
VAP-C01E_MIL03B22 / Mill Creek / Described in VDH-DSS Condemnation 014-123S150, 6/15/2020. CB5MH	4A	Dissolved Oxygen	2020	L	0.318
VAP-C01E_OHC01A08 / Old House Cove / Described in VDH-DSS SFC 015-022F, 5/9/2016. CB5MH	4A	Dissolved Oxygen	2020	L	0.024
VAP-C01E_PNT02A02 / Prentice Creek / Downstream of VDH-DSS condemnation 015-022, 6/15/2020 to its mouth. CB5MH	4A	Dissolved Oxygen	2016	L	0.156
VAP-C01E_PNT02B10 / Prentice Creek / Portion of VDH-DSS condemnation 015-022E, 6/15/2020 that was open on 022, 2/27/1997. CB5MH	4A	Dissolved Oxygen	2016	L	0.014
VAP-C01E_REA01A10 / Reason Creek / Described in VDH-DSS condemnation 013-220C, 8/23/2010 CB5MH	4A	Dissolved Oxygen	2020	L	0.025
VAP-C01E_TBS02A00 / Tabbs Creek / Tabbs Creek downstream of VDH-DSS Condemnation 016-133, 12/13/2006. Merged in the 2022 cycle. CB5MH	4A	Dissolved Oxygen	2006	L	0.175

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_WCO02A08 / Warehouse Creek / Portion of VDH condemnation notice 013-220A, 6/15/2020 not included in 89E, 5/28/1997 CB5MH	4A	Dissolved Oxygen	2006	L	0.008
VAP-C01E_XES01A12 / XES - Dividing Creek, UT / Described in the VDH-DSS condemnation 015-022D, 6/15/2020. CB5MH	4A	Dissolved Oxygen	2018	L	0.029
VAP-C01E_XFJ01A22 / XFJ - Mill Creek, UT (Guarding Cove) / Described in VDH-DSS Condemnation 014-123S174, 6/15/2020. CB5MH	4A	Dissolved Oxygen	2020	L	0.059
VAP-C01E_ZZZ01A22 / Unsegmented estuaries in C01 / Unsegmented estuaries in CB02 CB5MH	4A	Dissolved Oxygen	2006	L	0.371
VAP-C01E_ZZZ01B14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB03. CB5MH	4A	Dissolved Oxygen	2020	L	0.058
VAP-C01E_ZZZ01C14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB04. CB5MH	4A	Dissolved Oxygen	2020	L	0.764

Chesapeake Bay segment CB5MH-VA

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
209.696		

Chesapeake Bay segment CB5MH-VA

Deep-Channel Seasonal Refuge

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
197.89		

Chesapeake Bay segment CB5MH-VA

Deep-Water Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
209.696		

Chesapeake Bay segment CB5MH-VA

Open-Water Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
209.696		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **CB5MH-SAV-BAY** Chesapeake Bay segment CB5MH

Cause Location: This cause encompasses the complete CBP segment CB5MH.

Cause City/County: Chesapeake Bay - County Not Applicable; Lancaster County; Northumberland County

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. These criteria are based on segment-wide dissolved oxygen and submerged aquatic vegetation criteria.

Chesapeake Bay segment CB5MH is impaired of the Aquatic Life due to inadequate submerged aquatic vegetation acreage. The Submerged Aquatic Vegetation goal is 7,633 acres but only 36% was attained found in the most recent 3 years according to aerial analysis of SAV. Only 69% of the water clarity goal was met according to 2013 and 2014 Dataflow surveys.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-CB5 / Chesapeake Bay - VA portion of CBP Segment CB5MH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment CB5MH, located in the northern part of the Virginia mainstem Bay from the mouth of the Rappahannock River and northward. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	185.846
VAP-C01E_ANT01A98 / Antipoison Creek / Described in the condemnation notice 017-188A, 11/15/2020. Expanded in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.083
VAP-C01E_ANT01B08 / Antipoison Creek, UT / Described in the condemnation notice 017-188C, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.005
VAP-C01E_ANT01C08 / Antipoison Creek, UT / Described in VDH-DSS condemnation notice 017-188B, 11/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.013
VAP-C01E_ANT02A08 / Antipoison Creek / Downstream of condemnation notice 017-188, 11/15/2020 not otherwise segmented. Merged in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.325
VAP-C01E_ASH01A10 / Ashleys Cove / Described in VDH-DSS condemnation 016-024D, 1/28/2005 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.056
VAP-C01E_BAI01A16 / Bailey Prong / Described in VDH-DSS condemnation 013-220H, 4/1/2014. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.052

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BAL01A02 / Ball Creek / Portion of VDH condemnation notice 014-124B, 6/2/1997 open in 014-124, 6/15/2020 Size reduced in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.010
VAP-C01E_BAL01B20 / Ball Creek / Described in VDH condemnation notice 014-124S152, 6/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.039
VAP-C01E_BAL02A02 / Ball Creek / From VDH-DSS Condemnation 124B, 6/2/1997, downstream to its mouth. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.128
VAP-C01E_BAR01A98 / Barrett Creek / Described in the condemnation notice, 013-08S80, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.066
VAP-C01E_BAR02A08 / Barrett Creek, UT / Described in VDH-DSS SFC 013-089S81, 6/15/2020 Size decreased in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.007
VAP-C01E_BEL01A08 / Bells Creek / Described in VDH condemnation 016-057B, 12/13/2006. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAP-C01E_BLA01A22 / Blackwells Creek / Described in VDH-DSS Condemnation 013-08D, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.045
VAP-C01E_BLA01B22 / Blackwells Creek / Described in VDH-DSS Condemnation 013-089S181, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C01E_BLS01A02 / Balls Creek / Described in VDH-DSS condemnation notice 89B, 5/28/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.064
VAP-C01E_BLS02A08 / Balls Creek / Portion of condemnation notice 013-089F, 6/15/2020 not included in 89B, 5/28/1997. Size reduced in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAP-C01E_BLS03A22 / Balls Creek / Described in VDH-DSS Condemnation 013-089S179, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.022
VAP-C01E_BMC01A04 / Betts Mill Creek / Described in the VDH Shellfish Condemnation 013-089B, 6/15/2020. Split in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.048

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_BMC01B22 / Betts Mill Creek / Described in VDH Shellfish Condemnation 013-089S181, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAP-C01E_BMS01A12 / Bush Mill Stream / Tidal limit to mouth at Great Wicomico River CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.095
VAP-C01E_BRS01A08 / Barnes Creek / Portion of VDH-DSS condemnation 016-057C, 12/13/2006 open in 016-057, 11/15/2020. Split in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.194
VAP-C01E_BRS01B20 / Barnes Creek / Portion of VDH-DSS condemnation 12/13/2006 open on 016-057, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.023
VAP-C01E_BRS01C20 / Barnes Creek / Described in VDH-DSS condemnation 016-057B, 11/15/2020. Shrank in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.062
VAP-C01E_BRS01D22 / Barnes Creek / Portion of VDH-DSS condemnation 016-057C, 12/13/2006 open in 016-057, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.031
VAP-C01E_CHA01A08 / Dymmer Creek, UT / Described in condemnation notice 016-024B, 12/30/2015. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAP-C01E_CHA01B12 / Chases Cove / Described in VDH-DSS condemnation notice 016-024D, 12/30/2015 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.023
VAP-C01E_CLE01A98 / Cloverdale Creek / Described in the condemnation notice 014-124A, 6/2/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAP-C01E_CLE02A06 / Cloverdale Creek / Downstream of condemnation notice 014-124A, 6/2/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.056
VAP-C01E_COC01A98 / Cockrell Creek / As described in VDH-DSS Shellfish Condemnation 012-002B, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.612
VAP-C01E_COC03A98 / Cockrell Creek / Described in the condemnation notice. VDH-DSS SFC 012-002C, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.035

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_COC04A20 / Cockrell Creek / Portion of VDH-DSS Condemnation Notice 012-002A, 9/22/2005 open 8/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.202
VAP-C01E_COC04B10 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002A, 8/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.198
VAP-C01E_COC04C22 / Cockrell Creek / Described in VDH-DSS Condemnation Notice 012-002S194, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.070
VAP-C01E_COC05A06 / Cockrell Creek / From VDH-DSS SFC 012-002A, 9/22/2005 downstream to mouth at Fleet Point. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.152
VAP-C01E_COL01A08 / Coles Creek / Described in VDH-DSS SFC 013-089C, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.019
VAP-C01E_CRN01A06 / Cranes Creek / Described in VDH-DSS Shellfish Condemnation 013-220C, 5/1/2018 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.019
VAP-C01E_CRN01B06 / Cranes Creek / Described in VDH-DSS Shellfish Condemnation 013-220M1, 8/9/2011 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C01E_DIV01A98 / Dividing Creek / Described in VDH-DSS condemnation 015-022A, 6/15/2020. Size increased in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.091
VAP-C01E_DIV01B12 / Dividing Creek / Portion of VDH-DSS condemnation 022, 2/27/1997 open on 015-022, 6/15/2020. Size reduced in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.138
VAP-C01E_DIV01C14 / Dividing Creek, UT / VDH-DSS condemnation 015-022G, 5/3/2018 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.009
VAP-C01E_DIV03A00 / Dividing Creek / From the downstream limit of VDH-DSS SFC 022, 2/27/1997, to the mouth at Chesapeake Bay. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.816
VAP-C01E_DVN01A04 / Davenport Creek / Described in VDH Shellfish Condemnation 017-188A, 5/12/2012. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.019

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_DYM01A98 / Dymer Creek / Described in VDH-DSS condemnation notice 016-024A, 11/15/2020 and portion of 016-024D, 11/15/2020 within mainstem Dymer Creek. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.190
VAP-C01E_DYM01B14 / Dymer Creek / Portion of VDH-DSS SFC 016-024A 1/28/2005 not condemned on 11/15/2020. Expanded in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.110
VAP-C01E_DYM02A00 / Dymer Creek / Dymer Creek downstream of VDH-DSS SFC 016-024A 1/28/2005 unless otherwise segmented. Size increased in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.665
VAP-C01E_DYM02B20 / Georges Cove / Portion of 016-024S114, 11/15/2020 not located within VDH-DSS SFC 016-024A or -E, 1/28/2005. Size reduced in the 2022 cycle and is now limited to Georges Cove. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAP-C01E_FLB01A00 / Fleets Bay / Fleets Bay north of Bluff Point at Barnes Creek south to Fleets Island. CB5MH Size adjusted in 2006 cycle.	4A	Aquatic Plants (Macrophytes)	2006	L	5.177
VAP-C01E_GEO01A98 / Georges Cove / Portion of condemnation notice 016-024E, 1/28/2005 not closed 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C01E_GEO01B20 / Georges Cove / Described in condemnation notice 016-024B, 1/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAP-C01E_GOU01A06 / Gougher Creek / Described in VDH-DSS Shellfish Condemnation 013-220S84, 6/15/2020 Size reduced in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.036
VAP-C01E_GSK01A10 / Gaskin Pond / As described in VDH-DSS condemnation 011-122A, 8/15/2020. Segment split in the 2022 cycle.	4A	Aquatic Plants (Macrophytes)	2006	L	0.076
VAP-C01E_GSK01B22 / Gaskin Pond / As described in VDH-DSS condemnation 011-122S189, 8/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.042

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_GWR01A98 / Great Wicomico River / Portion of condemnation notice 013-089A, 6/15/2020 which is not administratively closed, excluding Head River Branch and Bush Mill Stream CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.232
VAP-C01E_GWR01B08 / Great Wicomico River / Portion of VDH-DSS condemnation 013-089S182, 6/15/2020 not included in 089A, 5/28/1997. Split in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.070
VAP-C01E_GWR01C10 / Great Wicomico River / Portion of condemnation notice 089A, 5/28/1997 which is administratively closed CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.058
VAP-C01E_GWR01D22 / Great Wicomico River / Portion of condemnation notice 089A, 5/28/1997 which is within 013-089S182, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.036
VAP-C01E_GWR02A00 / Great Wicomico River / From VDH-DSS SFC 013-089S182, 6/15/2020 downstream to Rogue Point unless otherwise segmented. Size reduced in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	1.883
VAP-C01E_GWR02B06 / Great Wicomico River / As described in VDH-DSS Shellfish Condemnation 013-089M2, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.017
VAP-C01E_GWR02C06 / Great Wicomico River / As described in VDH-DSS Shellfish Condemnation 013-089M1, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.008
VAP-C01E_GWR02D12 / Great Wicomico River / VDH-DSS Condemnation 013-089M3, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.008
VAP-C01E_GWR02E16 / Great Wicomico River, UT / Described in VDH-DSS condemnation 013-089S82, 5/1/2018 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.033
VAP-C01E_GWR03A06 / Great Wicomico River / From Rogue Point (GWR02A00) downstream to Ingram Bay at Dameron Marsh. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	5.651
VAP-C01E_GWR03B16 / Great Wicomico River / Described in VDH-DSS condemnation 013-220D, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.004
VAP-C01E_HAP01B10 / Harpers Creek / Described in VDH-DSS Condemnation 017-188E, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.022

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_HAV01A08 / Harveys Creek / Described in VDH Shellfish Condemnation 014-123C, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.045
VAP-C01E_HEN01A00 / Henrys Creek / Described in VDH condemnation 016-057C, 11/15/2020. Expanded in the 2020 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.041
VAP-C01E_HEN01B14 / Henrys Creek / Portion of VDH condemnation 016-057C, 1/28/2005 open on 11/15/2020. Merged in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAP-C01E_HEN02A14 / Henrys Creek / Downstream of 016-057C, 1/28/2005 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.103
VAP-C01E_HHB01A98 / Horn Harbor / Described in the condemnation notice 013-089S183, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.071
VAP-C01E_HNT01A98 / Hunts Cove / Described in the condemnation notice 016-024B, 1/28/2005. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.040
VAP-C01E_HRB01A12 / Head River Branch / Tidal limit to mouth at Bush Mill Stream. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAP-C01E_IND01A98 / Indian Creek / Portion of VDH-DSS condemnation notice 016-057A, 11/15/2020 that is not administratively condemned. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.331
VAP-C01E_IND01B10 / Indian Creek / Administratively condemned portion of VDH-DSS condemnation notice 016-057A, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.037
VAP-C01E_IND01C10 / Indian Creek / Portion of condemnation notice 016-057A, 12/13/2006 seasonally condemned on 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAP-C01E_IND02A98 / Indian Creek / Described in the condemnation notice 016-057E, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.015
VAP-C01E_IND03A00 / Indian Creek / Indian Creek from end of condemnation 016-057A, 12/13/2006, downstream to mouth unless otherwise segmented. Expanded in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.595

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_IND03B06 / Indian Creek / Portion of VDH-DSS Seasonal Shellfish Condemnation 016-057S110, 11/15/2020 not addressed in the TMDL. Shortened and split in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.005
VAP-C01E_IND03C22 / Indian Creek / Described in VDH-DSS Condemnation 016-057M1, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.017
VAP-C01E_JAR01A02 / Jarvis Creek, UT / Described in VDH-DSS condemnation notice 015-022H, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.026
VAP-C01E_JAR01B08 / Jarvis Creek / As described in VDH-DSS condemnation 015-022C, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C01E_JAR02A10 / Jarvis Creek / Downstream of VDH condemnations CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.200
VAP-C01E_JOH01A06 / Johnson Creek / As described in VDH-DSS SFC 016-024S112, 11/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.029
VAP-C01E_LEE01A02 / Lees Cove / As described in the condemnation notice 016-024C, 1/28/2005 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.015
VAP-C01E_LEE02A12 / Lees Cove / Portion of VDH-DSS SFC 016-024C, 11/15/2020 not impaired in 016-024C, 1/28/2005. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.010
VAP-C01E_LOC01A08 / Long Creek / Described in VDH condemnation 016-057D, 12/13/2006. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.017
VAP-C01E_LRC01A12 / Lawrence Cove / Described in the VDH-DSS condemnation 015-022B, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.087
VAP-C01E_LTB01A02 / Little Bay / Little Bay CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	1.147
VAP-C01E_LTM01A98 / Little Taskmakers Creek / Described in the condemnation notice 011-190S192, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.038
VAP-C01E_LTM01B22 / Little Taskmakers Creek / Portion of VDH condemnation notice 190, 4/13/1993 that is not included in 011-190, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.011
VAP-C01E_MIL01A98 / Mill Creek / Described in the condemnation notice 123, 6/2/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.241

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_MIL01B06 / Mill Creek / Mouth of Mill Creek at Ingram Bay CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	1.173
VAP-C01E_MIL02A08 / Mill Creek / Portion of VDH Condemnation 014-123A, 6/15/2020 not included in the notice 123, 6/2/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.027
VAP-C01E_MIL03A08 / Mill Creek / Middle Mill Creek downstream of condemnations to Ingrams Bay. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.146
VAP-C01E_MIL03B22 / Mill Creek / Described in VDH-DSS Condemnation 014-123S150, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.318
VAP-C01E_NPC01A16 / Natty Point Cove / Described in VDH-DSS condemnation 015-022C, 5/3/2018. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAP-C01E_OHC01A08 / Old House Cove / Described in VDH-DSS SFC 015-022F, 5/9/2016. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.024
VAP-C01E_OWP01A98 / Owens Pond / Downstream of VDH-DSS condemnation 011-122, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.076
VAP-C01E_OWP02B12 / Owens Pond / Described in VDH-DSS condemnation 011-122S191, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.037
VAP-C01E_OWP02C12 / Owens Pond / VDH-DSS condemnation 011-122S190, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.073
VAP-C01E_OYS01A08 / Oyster Creek / Described in VDH condemnation 018-053A, 1/4/2005 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.103
VAP-C01E_PEN01A12 / Penny Creek / Described in VDH-DSS Condemnation 013-220S85, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.009
VAP-C01E_PNT02A02 / Prentice Creek / Downstream of VDH-DSS condemnation 015-022, 6/15/2020 to its mouth. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.156
VAP-C01E_PNT02B10 / Prentice Creek / Portion of VDH-DSS condemnation 015-022E, 6/15/2020 that was open on 022, 2/27/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.014
VAP-C01E_PNT02C22 / Prentice Creek, UT / Described in VDH-DSS condemnation 015-022F, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.004

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_PNT03A02 / Prentice Creek / Described in VDH-DSS condemnation notice 022D, 2/27/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.015
VAP-C01E_REA01A10 / Reason Creek / Described in VDH-DSS condemnation 013-220C, 8/23/2010 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.025
VAP-C01E_TBS01A98 / Tabbs Creek / Described in VDH-DSS condemnation notice 016-133A, 11/15/2020 Size reduced in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.180
VAP-C01E_TBS01B10 / Tabbs Creek / Portion of VDH-DSS condemnation notice 016-133A, 12/13/2006 seasonally condemned in 016-133, 11/15/2020. Split in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.025
VAP-C01E_TBS01C22 / Tabbs Creek / Portion of the condemnation notice 016-133A, 12/13/2006 open on 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.029
VAP-C01E_TBS02A00 / Tabbs Creek / Tabbs Creek downstream of VDH-DSS Condemnation 016-133, 12/13/2006. Merged in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.175
VAP-C01E_TIP01A98 / Tipers Creek / Described in VDH-DSS condemnation notice 013-089E, 6/15/2020 Split in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.052
VAP-C01E_TIP01B22 / Tipers Creek / Portion of VDH-DSS condemnation notice 89C, 5/28/1997 included in 013-089S178, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.031
VAP-C01E_TIP02A08 / Tipers Creek / Portion of condemnation notice 013-089S178, 6/15/2020 not included in 89C, 5/28/1997 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.013
VAP-C01E_TOW01A06 / Towles Creek / Described in VDH-DSS Shellfish Condemnation 014-123B, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.027
VAP-C01E_TSK01A14 / Taskmakers Creek / As described in VDH-DSS condemnation 011-190S193, 8/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAP-C01E_WCO01A98 / Warehouse Creek / Described in the condemnation notice 89E, 5/28/1997 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.069

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_WCO02A08 / Warehouse Creek / Portion of VDH condemnation notice 013-220A, 6/15/2020 not included in 89E, 5/28/1997 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.008
VAP-C01E_WHY01A98 / Whays Creek / Described in VDH-DSS condemnation notice 013-220B, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.028
VAP-C01E_WHY01B22 / Whays Creek / Portion of VDH-DSS condemnation notice 089D, 4/3/2002 open in 013-220, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.013
VAP-C01E_WHY03A10 / Whays Creek / Downstream of condemnation notice 013-089D, 4/3/2002. Merged in the 2022 cycle. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.099
VAP-C01E_XDL01A02 / XDL - Chesapeake Bay, UT (aka Big Fleets Pond) / As described in condemnation notice 011-190A, 8/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAP-C01E_XDZ01A10 / XDZ - Mill Creek, UT (Gascony Cove) / Tidal limit to mouth at Mill Creek	4A	Aquatic Plants (Macrophytes)	2006	L	0.028
VAP-C01E_XEO01A10 / XEO - Reason Creek, UT / Described in VDH-DSS Condemnation 013-220C, 6/15/2020 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.001
VAP-C01E_XES01A12 / XES - Dividing Creek, UT / Described in the VDH-DSS condemnation 015-022D, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.029
VAP-C01E_XEU01A02 / XEU - Prentice Creek, UT / Described in VDH-DSS condemnation notice 022C, 2/27/1997. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.011
VAP-C01E_XEV01A12 / XEV - Mill Creek, UT / Described in VDH-DSS condemnation 014-123C, 5/9/2016. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.007
VAP-C01E_XEW01A14 / XEW - Chesapeake Bay, UT / Tidal limit to mouth	4A	Aquatic Plants (Macrophytes)	2006	L	0.022
VAP-C01E_XFC02C12 / XFC - Antipoison Creek, UT / Described in VDH-DSS condemnation 017-188D, 11/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.002
VAP-C01E_XFJ01A22 / XFJ - Mill Creek, UT (Guarding Cove) / Described in VDH-DSS Condemnation 014-123S174, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.059

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C01E_XUC01A98 / XUC - Dividing Creek, UT / Described in the condemnation notice 015-022G, 6/15/2020. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.013
VAP-C01E_ZZZ01A22 / Unsegmented estuaries in C01 / Unsegmented estuaries in CB02 CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.371
VAP-C01E_ZZZ01B14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB03. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.058
VAP-C01E_ZZZ01C14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB04. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.764
VAP-C01E_ZZZ01D14 / Unsegmented estuaries in C01 / Unsegmented portion of watershed CB05. CB5MH	4A	Aquatic Plants (Macrophytes)	2006	L	0.065

Chesapeake Bay segment CB5MH

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
211.89		

Chesapeake Bay segment CB5MH

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
211.89		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality

Appendix 4 - Fact Sheets for Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **CB6PH-DO-BAY** Chesapeake Bay segment **CB6PH**

Cause Location: This cause encompasses the complete CBP segment CB6PH.

Cause City/County: Chesapeake Bay - County Not Applicable

Use(s): Aquatic Life; Deep-Water Aquatic Life; Open-Water Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4A

Cause Description: The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment meets the 30-day mean Open Water summer and Deep Water dissolved oxygen criteria. Because this segment fails as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

During the 2014 cycle, applicable areas also failed the Deep Water summer 30-day mean dissolved oxygen criteria. The segment met in the 2016 cycle.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and were partially delisted (Category 2C.)

The assessment remained the same in the 2020 cycle.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-CB6N / Chesapeake Bay - Northern portion of CBP Segment CB6PH / This assessment unit is the mainstem northern portion of Chesapeake Bay Program segment CB6PH, located in the northeastern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Dissolved Oxygen	2006	L	127.195
VACB-R01E-CB6S / Chesapeake Bay - Southern portion of CBP Segment CB6PH / This assessment unit is the mainstem southern portion of Chesapeake Bay Program segment CB6PH, located in the northeastern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Dissolved Oxygen	2006	L	160.307

Chesapeake Bay segment CB6PH

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
287.502		

Chesapeake Bay segment CB6PH

Deep-Water Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
127.195		

Chesapeake Bay segment CB6PH

Open-Water Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
287.502		

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **CB6PH-SAV-BAY** Chesapeake Bay segment **CB6PH**

Cause Location: This cause encompasses the complete CBP segment CB6PH.

Cause City/County: Chesapeake Bay - County Not Applicable; Mathews County

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: Submerged Aquatic Vegetation acres goal is 1,268 acres but only 47% was attained found in the most recent 3 years according to aerial analysis of SAV. Only 88% of water clarity goal met according to 2012 Dataflow survey (the other surveys out are outside of the assessment period).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-CB6N / Chesapeake Bay - Northern portion of CBP Segment CB6PH / This assessment unit is the mainstem northern portion of Chesapeake Bay Program segment CB6PH, located in the northeastern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	127.195
VACB-R01E-CB6S / Chesapeake Bay - Southern portion of CBP Segment CB6PH / This assessment unit is the mainstem southern portion of Chesapeake Bay Program segment CB6PH, located in the northeastern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	160.307
VAP-C04E_BOR01A18 / Borum Creek / Described in VDH-DSS condemnation 039-026C, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.028
VAP-C04E_DOC01A98 / Doctors Creek / Described in VDH condemnation notice 26B, 2/25/1997. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.015
VAP-C04E_DYE01A08 / Dyer Creek / Described in VDH-DSS Condemnation 039-100S76, 4/15/2020. Expanded in the 2022 cycle. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.052
VAP-C04E_DYE01B22 / Dyer Creek, UT / Described in VDH-DSS Condemnation 039-100S123, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.014
VAP-C04E_DYE02A04 / Dyer Creek / Downstream limit of condemnation to mouth. Shrank and split in the 2022 cycle. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.220
VAP-C04E_GDN01A06 / Garden Creek / Tidal limit to mouth. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.373

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_HAH01A98 / Horn Harbor / Described in VDH condemnation notices 039-026A and -026E, 4/15/2020. Shrank slightly in the 2022 cycle. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.181
VAP-C04E_HAH01C12 / Horn Harbor / Portion of VDH-DSS condemnation 26A, 2/25/1997 not closed in the 039-026, 4/15/2020 condemnation. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.054
VAP-C04E_HAH02A02 / Horn Harbor / From VDH-DSS condemnation 26A, 2/25/1997 downstream to the mouth, unless otherwise segmented. Merged in the 2022 cycle. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	1.367
VAP-C04E_HAH02B12 / Horn Harbor / Portion of VDH-DSS condemnation 039-026S73, 4/15/2020 downstream of 26A, 2/25/1997. Shortened and split in the 2022 cycle. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.180
VAP-C04E_HAH02C20 / Horn Harbor / Described in VDH-DSS condemnation 039-026D, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.037
VAP-C04E_HAH02D18 / Horn Harbor, UT / Described in VDH-DSS condemnation 039-026B, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.005
VAP-C04E_HAH02F22 / Horn Harbor / Described in VDH-DSS condemnation 039-026M1, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.005
VAP-C04E_HAH04A06 / Horn Harbor, UT (Jacks Creek) / Described in VDH Shellfish Condemnation 039-100S170, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.016
VAP-C04E_WIN01A06 / Winter Harbor, UT / Described in the condemnation notice 038-178B, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.108
VAP-C04E_WIN01B00 / Winter Harbor / Lower Winter Harbor, not otherwise segmented. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.348
VAP-C04E_WIN01C20 / Winter Harbor / Described in VDH-DSS Condemnation 038-178S171, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.030
VAP-C04E_WIN02B06 / Winter Harbor / Described in VDH-DSS SFC 038-178M1, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.037
VAP-C04E_WIN03A06 / Winter Harbor / Northern portion of Winter Harbor. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.715

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_WIN03B18 / Winter Harbor / Described in VDH-DSS condemnation 038-176A and 038-178C, 4/15/2020. Split in the 2022 cycle. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.123
VAP-C04E_WIN03C22 / Winter Harbor / Described in VDH-DSS condemnation 038-176S122, 4/15/2020. CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.124
VAP-C04E_ZZZ02A06 / Unsegmented estuaries in C04 / Unsegmented portion within CB6PH	4A	Aquatic Plants (Macrophytes)	2016	L	0.010

Chesapeake Bay segment CB6PH

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
291.543		

Chesapeake Bay segment CB6PH

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
291.543		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **CB7PH-DO-BAY** Chesapeake Bay segment **CB7PH**

Cause Location: This cause encompasses the complete CBP segment CB7PH.

Cause City/County: Accomack County; Chesapeake Bay - County Not Applicable; Northampton County

Use(s): Aquatic Life; Deep-Water Aquatic Life; Open-Water Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4A

Cause Description: The 30-day dissolved oxygen criteria for the open water and deep water uses failed for the 2022 assessment. There are insufficient data to assess remaining shorter-term dissolved oxygen criteria for this use.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-04CE / Chesapeake Bay - Cape Charles BSS #089-011, Section A. / Va Dept of Health Shellfish (administrative) condemnation #089-011, Opposite Cape Charles City, Section A. HUC: 02080101.[effective 2005-3-08]	4A	Dissolved Oxygen	2006	L	0.312
VACB-R01E-CB7N / Chesapeake Bay - Northern portion of CBP Segment CB7PH / This assessment unit is the mainstem northern portion of Chesapeake Bay Program segment CB7PH, located in the northwestern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Dissolved Oxygen	1998	L	168.603
VACB-R01E-CB7S / Chesapeake Bay - Southern portion of CBP Segment CB7PH / This assessment unit is the mainstem southern portion of Chesapeake Bay Program segment CB7PH, located in the southwestern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Dissolved Oxygen	1998	L	372.814
VACB-R01E_CB7N01A20 / Chesapeake Bay - Northern portion of CBP Segment CB7PH / Chesapeake Bay - VDH DSS condemnation #079-112 (Open)	4A	Dissolved Oxygen	1998	L	0.023
VAT-C10E_DEP01A06 / Deep Creek - Middle / East of town of Bayside. Middle portion of creek adjacent to Town of Deep Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 077-138 C (effective 20170620).	4A	Dissolved Oxygen	2006	L	0.160
VAT-C10E_DEP01B10 / Deep Creek - Upper [DSS ADMIN] / East of town of Bayside. Upper portion of creek adjacent to Town of Deep Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 077-138 C (effective 20200715).	4A	Dissolved Oxygen	2006	L	0.114
VAT-C10E_DEP02A06 / Deep Creek - Lower / East of town of Bayside. Lower portion of creek, from RM 1.6 downstream to mouth. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 077-138 C (effective 20200715).	4A	Dissolved Oxygen	2006	L	0.420

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_DEP03A08 / Deep Creek - Lower [No DSS] / East of town of Bayside. Lower portion of creek, from RM 1.6 downstream to mouth. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Dissolved Oxygen	2006	L	0.220
VAT-C10E_ISB01A06 / Island Bay - [No DSS] / Between Russell Island & Long Ridge area. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnations.	4A	Dissolved Oxygen	2006	L	0.953
VAT-C10E_PMC01A20 / Pompcro Creek / Inlets of unnamed island on the eastern portion of Pompcro Creek. Portion of CBP segment CB7PH. Shellfishing OPEN Condemnation (20180614).	4A	Dissolved Oxygen	2006	L	0.011
VAT-C10E_ZZZ01A06 / Unsegmented Bay Waters in C10E-CB7PH. / Evaluated non-segmented Bay Waters in C10E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnations.	4A	Dissolved Oxygen	2006	L	1.405
VAT-C11E_CED01A00 / Cedar Creek / Entire estuarine portion of creek. North shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.063
VAT-C11E_CSX01A00 / Chesconessex Creek - South Br. - Upper / South of Chesconessex and northwest of Onancock. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 079-112 A (effective 20180620).	4A	Dissolved Oxygen	2006	L	0.109
VAT-C11E_CSX01B10 / Chesconessex Creek - South Br. - Middle / South of Chesconessex and northwest of Onancock. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 079-112 Restricted(effective 20180614).	4A	Dissolved Oxygen	2006	L	0.100
VAT-C11E_CSX02A06 / Chesconessex Creek - N. Branch / Lower portion of Creek, including tidal tribs., from the end DSS condemnation # 079-112 downstream to mouth. Portion of CBP segment CB7PH. Part of area contains no DSS Condemnation remainder is OPEN 079-112 (20180614).	4A	Dissolved Oxygen	2006	L	1.832
VAT-C11E_CSX02B10 / Chesconessex Creek - N. Branch / North Branch portion of creek at marina area. DSS Admin condemnation # 079-112 B (effective 20180614). Portion of CBP segment CB7PH.	4A	Dissolved Oxygen	2006	L	0.030
VAT-C11E_FNN01A00 / Finneys Creek - Upper / East of Bailey Neck area. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.069

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_FNN02A00 / Finneys Creek - Lower / East of Bailey Neck area. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 080-013 A(effective 20200515).	4A	Dissolved Oxygen	2006	L	0.119
VAT-C11E_LTH01A00 / Leatherberry Creek / Entire estuarine portion of creek. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 081-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.070
VAT-C11E_MTC01A06 / Matchotank Creek - Upper / South of Broadway Neck area. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted condemnation # 080-169 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.069
VAT-C11E_MTC02A06 / Matchotank Creek - Lower / South of Broadway Neck area. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 080-169 A (effective 20200515)	4A	Dissolved Oxygen	2006	L	0.116
VAT-C11E_OCB01A00 / Central Branch, Onancock Creek / CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 080-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.018
VAT-C11E_OCN01A04 / Onancock Creek Mainstem - Upper [Admin Cond] / Near Town of Onancock. From junction of N, Central & S Brs downstream to end of Admin DSS condemnation. CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 080-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.129
VAT-C11E_OCN01C10 / Onancock Creek Mainstem - Upper / Near Town of Onancock. From junction of N, Central & S Brs downstream to north of Cedar Cr. CBP segment CB7PH. Portion of DSS shellfish condemnation # 081-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.097
VAT-C11E_OCN02A04 / Onancock Creek Mainstem - Lower / East of Bailey Neck area. Mainstem of Onancock Creek- lower. From Parker Cr downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 080-013 (effective 20200515).	4A	Dissolved Oxygen	2006	L	1.163
VAT-C11E_OCN02B08 / Onancock Creek Mainstem - Poplar Cove / East of Bailey Neck area. Mainstem of Onancock Creek. Marina in area of Poplar Cove. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.016

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_OCN02C22 / Onancock Creek Mainstem - Lower / Mainstem of Onancock Creek- Upper. From area near Cedar Creek downstream to Parker Cr. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 A(effective 20200515).	4A	Dissolved Oxygen	2006	L	0.790
VAT-C11E_ONB01A02 / North Branch, Onancock Creek / Located near Town of Onancock. Entire North Branch, Onancock Creek. CBP segment CB7PH. DSS shellfish condemnation (Admin Cond-PROHIBITION) # 081-013 D (effective 20180327).	4A	Dissolved Oxygen	2006	L	0.021
VAT-C11E_OSB01A02 / Southern Branch, Onancock Creek / Near Town of Onancock. Entire Southern Branch Onancock Creek. CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 081-013 A (effective 20180327).	4A	Dissolved Oxygen	2006	L	0.058
VAT-C11E_PMC01B20 / Lower Pompcro Creek / Portions of Pompcro Creek encompassing Tobacco Island and Rogue Island.	4A	Dissolved Oxygen	2006	L	0.934
VAT-C11E_PMC02B20 / Pompcro Cr- SW Inlet of UT off of Rogue Island / Southwest Inlet of Pompcro Creek trib at Tobacco Island. VDH DSS Restricted-Condemnation #079-112 (20180614).	4A	Dissolved Oxygen	2006	L	0.010
VAT-C11E_PRK01A08 / Parkers Creek - Upper / South shore tributary of Onancock Creek at Finneys Neck. Upstream portion of creek. Portion of CBP segment CB7PH. DSS shellfish Restricted-condemnation direct harvesting condemnation # 080-013 (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.035
VAT-C11E_PRK02A08 / Parkers Creek - Middle / South shore tributary of Onancock Creek at Finneys Neck. Middle portion of creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted condemnation # 080-013 (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.041
VAT-C11E_PRK03A08 / Parkers Creek - Lower / South shore tributary of Onancock Creek at Finneys Neck. Area around marina at mouth of Parkers Creek. Portion of CBP segment CB7PH. DSS shellfish seasonal condemnation # 080-013 A (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.086
VAT-C11E_TAR01A06 / Tarkill Creek / Located in Sluitkill Neck area. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Dissolved Oxygen	2006	L	0.190
VAT-C11E_ZZZ01A00 / Unsegmented estuaries in C11E. / Evaluated non segmented portions of C11E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 080-013 (20200515).	4A	Dissolved Oxygen	2006	L	0.550

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_ZZZ01B22 / Unsegmented estuaries in C11E. / Evaluated non segmented portions of C11E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 (20200515).	4A	Dissolved Oxygen	2006	L	0.050
VAT-C12E_PUN01A06 / Pungoteague Creek - Upper / W of Melfa. Upper portion of Pungoteague Cr. from the end of tidal waters downstream to Boggs Wharf and Route 634. CBP segment CB7PH. DSS condemnation # 081-119 B (effective 20200518).	4A	Dissolved Oxygen	2006	L	0.232
VAT-C12E_PUN01B16 / Pungoteague Creek - Middle-Upper / W of Melfa. Upper portion of Pungoteague Cr. from the Boggs Warf to Horse Hole Creek. CBP segment CB7PH. DSS condemnation Conditionally Approved # 081-119 C4 (effective 20200518).	4A	Dissolved Oxygen	2006	L	0.265
VAT-C12E_PUN02A06 / Pungoteague Creek - Lower / Located west of Town of Melfa. Lower portion of Pungoteague Cr. from Horse Hole Creek downstream to mouth. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 081-119 (effective 20200518).	4A	Dissolved Oxygen	2006	L	1.186
VAT-C12E_TAY01A06 / Taylor Creek / Located southwest of Harborton. From the end of tidal waters downstream Route 628 and Eastern Shore Yacht Club. Portion of CBP segment CB7PH. Portion of DSS condemnation # 081-119 C (effective 20200518).	4A	Dissolved Oxygen	2006	L	0.130
VAT-C12E_TAY02A14 / Taylor Creek- Mouth / Located southwest of Harborton. From Route 628 and Eastern Shore Yacht Club to Puncoteague confluence. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 C (effective 20200518).	4A	Dissolved Oxygen	2006	L	0.033
VAT-C12E_UNR01A06 / Underhill Creek / In area of Mount Nebo. North shore tributary to Pungoteague Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 081-119 A (effective 20200518).	4A	Dissolved Oxygen	2006	L	0.070
VAT-C12E_WRP01A06 / Warehouse Prong - Upper / Located north of Bobtown and east of Boggs Wharf. Upper portion, from headwaters to confluence with UT. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 B (effective 20200518).	4A	Dissolved Oxygen	2006	L	0.042
VAT-C12E_WRP02A06 / Warehouse Prong - Lower / Located north of Bobtown and east of Boggs Wharf. Lower portion, from confluence with UT downstream to confluence with Pungoteague Cr. Portion of CBP segment CB7PH. DSS (Admin Cond) condemnation # 081-119 B (effective 20200518).	4A	Dissolved Oxygen	2006	L	0.054

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_ZZZ01A00 / Unsegmented Bay Waters in C12E. / Evaluated non segmented portions of C12E, UT south of Pungoteague Cr. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Dissolved Oxygen	2006	L	0.002
VAT-C13E_BCE01A08 / Back Creek / Southwest of Fairview Neck area. North shore tributary of Nandua Cr. Portion of CBP segment CB7PH. DSS Open and Conditionally Approved shellfish direct harvesting condemnation # 082-160 C7 (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.141
VAT-C13E_BOS01A08 / Boggs Gut / Southwest of Fairview Neck area. South shore tributary of Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 D (effective 20200515)	4A	Dissolved Oxygen	2006	L	0.034
VAT-C13E_CHC01A00 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting OPEN # 085-185 (effective 20191115).	4A	Dissolved Oxygen	2006	L	0.323
VAT-C13E_CHC01B16 / Church Creek -Upper / In area of Elliotts Neck. Tributary to Nassawadox Creek, upstream portion of Church Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-185 B (effective 20191115).	4A	Dissolved Oxygen	2006	L	0.165
VAT-C13E_CHC01C10 / Church Creek - Middle-UT North Cove / In area of Elliotts Neck. Tributary to Church Creek - Middle, UT North Cove. Portion of CBP segment CB7PH. DSS shellfish harvesting condemnation # 085-185 A (effective 20191115).	4A	Dissolved Oxygen	2006	L	0.059
VAT-C13E_CHC01D22 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted # 085-185 D (effective 20191115).	4A	Dissolved Oxygen	2006	L	0.050
VAT-C13E_CRA01A06 / Craddock Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to end of shellfish condemnation (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 083-195 A (effective 20121210).	4A	Dissolved Oxygen	2006	L	0.082
VAT-C13E_CRA02A08 / Craddock Creek - Lower and UT / Most of Craddock Cr. excluding SF condemnation in upper creek. Including all tribs. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 083-195 (effective 20121210).	4A	Dissolved Oxygen	2006	L	0.911

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_CRR01A08 / Curratuck Creek / Southwest of Fairview Neck area. Lower south shore tributary of middle Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS (OPEN & Conditionally Approved) shellfish direct harvesting condemnation # 082-160 C6(effective 20200515).	4A	Dissolved Oxygen	2006	L	0.277
VAT-C13E_HGC01A06 / Holly Grove Cove- Upper / Located near Wellington Neck. From end of tidal waters downstream to mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-110 E (effective 20201115).	4A	Dissolved Oxygen	2006	L	0.143
VAT-C13E_KLL01A06 / Kelley Cove / From end of tidal waters downstream to confluence with Nassawadox Cr. (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	4A	Dissolved Oxygen	2006	L	0.026
VAT-C13E_MAG01A08 / McLean Gut - Upper / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.038
VAT-C13E_MAG02A08 / McLean Gut - Lower / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.032
VAT-C13E_NAN01A00 / Nandua Creek - Upper [TMDL-bact.] / Southeast of Hacks Neck area. The two most upstream branches of Nandua Creek, incl. Kusian Cove. Portion of CBP segment CB7PH. DSS condemnation # 082-160 A&C (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.144
VAT-C13E_NAN01B08 / Nandua Creek - Lower Upper / Southwest of Fairview Neck area. North shore tributary of Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 082-160 (effective 20200515).	4A	Dissolved Oxygen	2006	L	0.223
VAT-C13E_NAN02A06 / Nandua Creek - Lower / Lower portion of Nandua Creek including unsegmented tidal tribs., from the confluence of Boggs Gut downstream to mouth (RM 0.0). Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Dissolved Oxygen	2006	L	3.150
VAT-C13E_NSS01A06 / Nassawadox Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to confluence with Kelly Cove (RM 5.2) area of TMDL-bact 6/07. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	4A	Dissolved Oxygen	2006	L	0.205

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_NSS01B08 / Nassawadox Creek - Upper [No TMDL-bact] / From confluence with Kelly Cove (RM 5.2) downstream to mainstem (outside of area of TMDL-bact 6/07). Portion of CBP segment CB7PH. Portion of DSS (OPEN) shellfish direct harvesting condemnation # 085-110 (effective 20201115).	4A	Dissolved Oxygen	2006	L	0.169
VAT-C13E_NSS02A06 / Nassawadox Creek - Lower / Mainstem of lower portion of creek to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 085-110 & 085-185 (effective 20191115).	4A	Dissolved Oxygen	2006	L	2.121
VAT-C13E_NSS03A08 / Nassawadox Creek - Middle, N. Shore Tribs / Occohannock Neck Area. North Shore UTs to lower-middle mainstem Nassawadox. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 A & C (effective 20201115).	4A	Dissolved Oxygen	2006	L	0.126
VAT-C13E_OCH01A06 / Occohannock Creek - Upper / Upper portion of Occohannock Creek and tidal tribs., from end of tidal waters downstream to Creekside Dr at end of SF restricted area. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 A (effective 20201215).	4A	Dissolved Oxygen	2006	L	0.538
VAT-C13E_OCH02A06 / Occohannock Creek - Lower / Lower portion of Occohannock Creek and tidal tribs., from downstream of Youngs Pt. to mouth (RM 0.0). Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 084-043 (effective 20201215).	4A	Dissolved Oxygen	2006	L	2.469
VAT-C13E_OCH02B08 / Occohannock Creek - Middle Marina Area / In middle portion of Occohannock Creek, marina area of Davis Wharf. Portion of CBP segment CB7PH. DSS SEASONAL shellfish direct harvesting condemnation # 084-043 M1 (effective 20201215).	4A	Dissolved Oxygen	2006	L	0.034
VAT-C13E_OCH03A08 / Shields Cove & Fisher Cove / West of Belle Haven area. North and South shore tributaries of Occohannock Cr., NW of Youngs Pt. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 B & C (effective 20201215).	4A	Dissolved Oxygen	2006	L	0.087
VAT-C13E_WHC01A06 / Warehouse Creek - Upper / Southeast fork of upper portion of creek. Portion of CBP segment CB7PH. DSS ADMIN-PROHIB shellfish direct harvesting condemnation # 085-110 F (effective 20201115) (VPDES outfall condemnation for Shore Memorial Hospital STP VA0027537).	4A	Dissolved Oxygen	2006	L	0.032

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_WHC01B10 / Warehouse Creek - Upper Middle (Admin Cond) / Including northern fork and continuing downstream to bend near Wellington Neck. Portion of CBP segment CB7PH. DSS (Admin Cond) shellfish direct harvesting condemnation # 085-110C (effective 20201115).	4A	Dissolved Oxygen	2006	L	0.166
VAT-C13E_WHC02A06 / Warehouse Creek - Lower / Including bend near Wellington Neck to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 085-110 (effective 20201115).	4A	Dissolved Oxygen	2006	L	0.246
VAT-C13E_ZZZ01A00 / Unsegmented estuaries in C13E. / Evaluated non segmented portions of C13E. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Dissolved Oxygen	2006	L	0.752
VAT-C14E_BRL01A06 / Barlow Creek / In area of Old Town Neck. South shore tributary to lower Mattawoman Cr. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.049
VAT-C14E_HUG01A00 / Hungars Creek - Upper / Upper portion of Hungars Creek from end tidal waters downstream to end of TMDL boundary near Holloway Dr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.058
VAT-C14E_HUG01B22 / Hungars Creek - Upper / Upper portion of Hungars Creek from end of TMDL boundary near Holloway Dr to start of open shellfish area near Park Ln. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A & S195 (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.080
VAT-C14E_HUG02A00 / Hungars Creek - Lower / Lower portion of Hungars Creek near Park Ln upstream of confluence with Jacobus Cr. downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Dissolved Oxygen	2006	L	1.187
VAT-C14E_HUG02B12 / UT to Hungars Creek / Northern trib between Great Neck and Sparrow Point. Restricted portion of SF. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 C (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.039
VAT-C14E_HUG02C14 / Hungars Creek - Northern Trib / Lower portion of Hungars Creek, Trib north of the mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 S196 (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.073

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_JAC01A06 / Jacobus Creek - Upper South Fork / West of Johnstown. Trib to Hungars Cr. Uppermost portion of south branch. Portion of CBP segment CB7PH. DSS (Admin - Prohibition) due to STP VA0023817 Outfall) shellfish direct harvesting condemnation # 086-136F (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.028
VAT-C14E_JAC02A06 / Jacobus Creek - Upper Forks / West of Johnstown. Trib to Hungars Cr. Middle mainstem, north fork and lower portion of south fork. Portion of CBP segment CB7PH. DSS (Admin Cond) shellfish direct harvesting condemnation # 086-136 B (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.152
VAT-C14E_JAC03A06 / Jacobus Creek - Lower / West of Johnstown. South shore trib. to Hungars Cr. Lower mainstem portion. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.187
VAT-C14E_MAT01A06 / Mattawoman Creek - Upper / South of Wilsonia Neck. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 D & S48 (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.155
VAT-C14E_MAT02A10 / Mattawoman Creek - Lower / South of Wilsonia Neck - mouth of Mattawoman Cr. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Dissolved Oxygen	2006	L	0.357
VAT-C14E_THG01A06 / The Gulf - Upper / From end of tidal waters downstream to narrowing 0.45 mi. from mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 087-174 A (effective 20150827).	4A	Dissolved Oxygen	2006	L	0.090
VAT-C14E_THG02A06 / The Gulf - Lower / From narrowing 0.45 mi. from mouth downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish condemnation # 087-174 (20150827) & no DSS.	4A	Dissolved Oxygen	2006	L	0.204
VAT-C14E_WHS01A06 / Westerhouse Creek - North Branch [TMDL] / In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-199 (20181115).	4A	Dissolved Oxygen	2006	L	0.214
VAT-C14E_WHS02A06 / Westerhouse Creek - Upper South Branch [TMDL] / In Church Neck area, west of Bridgetown. Upper portion of Westerhouse Creek South Branch. Portion of CBP segment CB7PH. Portion DSS shellfish direct harvesting condemnation # 085-199 A (effective 20181115).	4A	Dissolved Oxygen	2006	L	0.019

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_WHS03A20 / Upper Westerhouse Creek - North Branch& Upper Middle [TMDL] / In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted-condemnation # 085-199 (20181115).	4A	Dissolved Oxygen	2006	L	0.030
VAT-C14E_ZZZ01A00 / Unsegmented estuaries in C14E. / Evaluated non segmented portions of C14E - mouth of Matchotank & Hungars Crs. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 20200915.	4A	Dissolved Oxygen	2006	L	0.838
VAT-C15E_CCB01A06 / Cape Charles Beach / Located west of Town of Cape Charles, along Chesapeake Bay. Portion of CBP segment CB7PH. DSS (Administrative) shellfish harvesting condemnation 089-011 A (effective 20051202) which is present.	4A	Dissolved Oxygen	2006	L	0.079
VAT-C15E_CRS01A06 / Cherrystone Inlet - Upper / From Eyreville Neck end of tidal waters downstream to confluence with Chesapeake Bay. Including Old Castle Cr. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 088-139 (20200815)	4A	Dissolved Oxygen	2006	L	2.138
VAT-C15E_CRS01B18 / Cherrystone Inlet - Eyrehall Cr / SE trib to Cherrystone Inlet. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 088-139 (20200815).	4A	Dissolved Oxygen	2006	L	0.103
VAT-C15E_CRS02A20 / Cherrystone Inlet - Upper / From Eyreville Neck end of tidal waters downstream to the mouth of the inlet. Portion of CBP segment CB7PH. DSS shellfish OPEN # 088-139 (20200815).	4A	Dissolved Oxygen	2006	L	0.243
VAT-C15E_KNS01A00 / Kings Creek - Upper Forks and Middle / From end of tidal waters downstream 0.16 mi. past confluence of the two most upstream forks. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 088-139 A (20180821).	4A	Dissolved Oxygen	2006	L	0.093
VAT-C15E_KNS03A08 / Kings Creek - Lower Middle / From start of DSS marina area downstream to Cherrystone. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 088-139 (20200815) &Seasonal Condemnation M1.	4A	Dissolved Oxygen	2006	L	0.167
VAT-C15E_KNS03B22 / Kings Creek - Lower Middle / DSS marina area DSS (Admin) shellfish direct harvesting condemnation # 088-139 (20200815) Section B. Portion of CBP segment CB7PH	4A	Dissolved Oxygen	2006	L	0.040
VAT-C15E_KNS04A22 / Kings Creek - Lower Middle / From Townfield Dr to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation OPEN # 088-139 (20200815).	4A	Dissolved Oxygen	2006	L	0.040

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C15E_ZZZ01A08 / Unsegmented estuaries in C15E. / Evaluated non segmented portions of C15E. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Dissolved Oxygen	2006	L	0.587
VAT-C16E_CCH01A04 / Cape Charles Harbor - Upper / From most upstream end of harbor downstream to 1/2 distance to mouth (RM 0.23). Portion of CBP segment CB7PH. DSS ADMINISTRATIVE shellfish harvesting condemnation # 089-011 B (effective 20051202) (VPDES outfall Town of Cape Charles STP VA0021288).	4A	Dissolved Oxygen	2006	L	0.056
VAT-C16E_CCH02A00 / Cape Charles Harbor - Lower / From 1/2 distance to mouth (RM 0.23) downstream to mouth. Portion of CBP segment CB7PH. DSS ADMINISTRATIVE shellfish harvesting condemnation # 089-011 A (effective 20051202) (VPDES outfall Town of Cape Charles STP VA0021288).	4A	Dissolved Oxygen	2006	L	0.060
VAT-C16E_KPT01A06 / Kiptopeke Beach / Located west of Cedar Grove, along Chesapeake Bay, near southern tip of Eastern Shore. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation present.	4A	Dissolved Oxygen	2006	L	0.044
VAT-C16E_OPC01A06 / Old Plantation Creek - Upper [TMDL-bact] / Upper portion of Old Plantation Creek within TMDL-Bact (33771). CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	4A	Dissolved Oxygen	2006	L	0.044
VAT-C16E_OPC01B08 / Old Plantation Creek - Upper [No TMDL-bact] / Upper portion of Old Plantation Creek and one southeast embayment not within TMDL-Bact (33771). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	4A	Dissolved Oxygen	2006	L	0.152
VAT-C16E_OPC02A00 / Old Plantation Creek - Lower / Lower portion of Old Plantation Creek, from approx. Red Bank (RM 2.0) downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 090-152 (20190815).	4A	Dissolved Oxygen	2006	L	0.926
VAT-C16E_ZZZ01A00 / Unsegmented estuaries in C16E. / Evaluated non segmented portions of C16E. Portion of CBP segment CB7PH. DSS Shellfish OPEN condemnation 20190815.	4A	Dissolved Oxygen	2006	L	0.146

Chesapeake Bay segment CB7PH

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
575.227		

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay segment CB7PH

Deep-Water Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	168.626		

Chesapeake Bay segment CB7PH

Open-Water Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	575.227		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **CB7PH-SAV-BAY** Chesapeake Bay segment CB7PH

Cause Location: This cause encompasses the complete CBP segment CB7PH.

Cause City/County: Accomack County; Chesapeake Bay - County Not Applicable; Northampton County

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: The acres of submerged aquatic vegetation (SAV) mapped through aerial surveys does not meet the criteria. Aerial analysis of SAV over the three most recent years of data indicate segment is short of this goal by 38%. There is insufficient data to assess the water clarity criteria.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-04CE / Chesapeake Bay - Cape Charles BSS #089-011, Section A. / Va Dept of Health Shellfish (administrative) condemnation #089-011, Opposite Cape Charles City, Section A. HUC: 02080101.[effective 2005-3-08]	4A	Aquatic Plants (Macrophytes)	2006	L	0.312
VACB-R01E-CB7N / Chesapeake Bay - Northern portion of CBP Segment CB7PH / This assessment unit is the mainstem northern portion of Chesapeake Bay Program segment CB7PH, located in the northwestern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	168.603
VACB-R01E-CB7S / Chesapeake Bay - Southern portion of CBP Segment CB7PH / This assessment unit is the mainstem southern portion of Chesapeake Bay Program segment CB7PH, located in the southwestern half of the Virginia Chesapeake Bay between the mouths of the James and Rappahannock Rivers. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	372.814
VACB-R01E_CB7N01A20 / Chesapeake Bay - Northern portion of CBP Segment CB7PH / Chesapeake Bay - VDH DSS condemnation #079-112 (Open)	4A	Aquatic Plants (Macrophytes)	2006	L	0.023
VAT-C10E_DEP01A06 / Deep Creek - Middle / East of town of Bayside. Middle portion of creek adjacent to Town of Deep Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 077-138 C (effective 20170620).	4A	Aquatic Plants (Macrophytes)	2006	L	0.160
VAT-C10E_DEP01B10 / Deep Creek - Upper [DSS ADMIN] / East of town of Bayside. Upper portion of creek adjacent to Town of Deep Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 077-138 C (effective 20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.114
VAT-C10E_DEP02A06 / Deep Creek - Lower / East of town of Bayside. Lower portion of creek, from RM 1.6 downstream to mouth. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 077-138 C (effective 20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.420

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_DEP03A08 / Deep Creek - Lower [No DSS] / East of town of Bayside. Lower portion of creek, from RM 1.6 downstream to mouth. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Aquatic Plants (Macrophytes)	2006	L	0.220
VAT-C10E_ISB01A06 / Island Bay - [No DSS] / Between Russell Island & Long Ridge area. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnations.	4A	Aquatic Plants (Macrophytes)	2006	L	0.953
VAT-C10E_PMC01A20 / Pompcro Creek / Inlets of unnamed island on the eastern portion of Pompcro Creek. Portion of CBP segment CB7PH. Shellfishing OPEN Condemnation (20180614).	4A	Aquatic Plants (Macrophytes)	2006	L	0.011
VAT-C10E_ZZZ01A06 / Unsegmented Bay Waters in C10E-CB7PH. / Evaluated non-segmented Bay Waters in C10E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnations.	4A	Aquatic Plants (Macrophytes)	2006	L	1.405
VAT-C11E_CED01A00 / Cedar Creek / Entire estuarine portion of creek. North shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.063
VAT-C11E_CSX01A00 / Chesconessex Creek - South Br. - Upper / South of Chesconessex and northwest of Onancock. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 079-112 A (effective 20180620).	4A	Aquatic Plants (Macrophytes)	2006	L	0.109
VAT-C11E_CSX01B10 / Chesconessex Creek - South Br. - Middle / South of Chesconessex and northwest of Onancock. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 079-112 Restricted(effective 20180614).	4A	Aquatic Plants (Macrophytes)	2006	L	0.100
VAT-C11E_CSX02A06 / Chesconessex Creek - N. Branch / Lower portion of Creek, including tidal tribs., from the end DSS condemnation # 079-112 downstream to mouth. Portion of CBP segment CB7PH. Part of area contains no DSS Condemnation remainder is OPEN 079-112 (20180614).	4A	Aquatic Plants (Macrophytes)	2006	L	1.832
VAT-C11E_CSX02B10 / Chesconessex Creek - N. Branch / North Branch portion of creek at marina area. DSS Admin condemnation # 079-112 B (effective 20180614). Portion of CBP segment CB7PH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAT-C11E_FNN01A00 / Finneys Creek - Upper / East of Bailey Neck area. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.069

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_FNN02A00 / Finneys Creek - Lower / East of Bailey Neck area. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 080-013 A(effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.119
VAT-C11E_LTH01A00 / Leatherberry Creek / Entire estuarine portion of creek. South shore tributary of Onancock Creek. Portion of CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 081-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.070
VAT-C11E_MTC01A06 / Matchotank Creek - Upper / South of Broadway Neck area. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted condemnation # 080-169 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.069
VAT-C11E_MTC02A06 / Matchotank Creek - Lower / South of Broadway Neck area. Portion of CBP segment CB7PH. DSS (Restricted) shellfish direct harvesting condemnation # 080-169 A (effective 20200515)	4A	Aquatic Plants (Macrophytes)	2006	L	0.116
VAT-C11E_OCB01A00 / Central Branch, Onancock Creek / CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 080-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAT-C11E_OCN01A04 / Onancock Creek Mainstem - Upper [Admin Cond] / Near Town of Onancock. From junction of N, Central & S Brs downstream to end of Admin DSS condemnation. CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 080-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.129
VAT-C11E_OCN01C10 / Onancock Creek Mainstem - Upper / Near Town of Onancock. From junction of N, Central & S Brs downstream to north of Cedar Cr. CBP segment CB7PH. Portion of DSS shellfish condemnation # 081-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.097
VAT-C11E_OCN02A04 / Onancock Creek Mainstem - Lower / East of Bailey Neck area. Mainstem of Onancock Creek- lower. From Parker Cr downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 080-013 (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	1.163
VAT-C11E_OCN02B08 / Onancock Creek Mainstem - Poplar Cove / East of Bailey Neck area. Mainstem of Onancock Creek. Marina in area of Poplar Cove. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.016

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_OCN02C22 / Onancock Creek Mainstem - Lower / Mainstem of Onancock Creek- Upper. From area near Cedar Creek downstream to Parker Cr. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 A(effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.790
VAT-C11E_ONB01A02 / North Branch, Onancock Creek / Located near Town of Onancock. Entire North Branch, Onancock Creek. CBP segment CB7PH. DSS shellfish condemnation (Admin Cond-PROHIBITION) # 081-013 D (effective 20180327).	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAT-C11E_OSB01A02 / Southern Branch, Onancock Creek / Near Town of Onancock. Entire Southern Branch Onancock Creek. CBP segment CB7PH. Portion of DSS (Admin Cond) shellfish condemnation # 081-013 A (effective 20180327).	4A	Aquatic Plants (Macrophytes)	2006	L	0.058
VAT-C11E_PMC01B20 / Lower Pompc Creek / Portions of Pompc Creek encompassing Tobacco Island and Rogue Island.	4A	Aquatic Plants (Macrophytes)	2006	L	0.934
VAT-C11E_PMC02B20 / Pompc Cr- SW Inlet of UT off of Rogue Island / Southwest Inlet of Pompc Creek trib at Tobacco Island. VDH DSS Restricted-Condemnation #079-112 (20180614).	4A	Aquatic Plants (Macrophytes)	2006	L	0.010
VAT-C11E_PRK01A08 / Parkers Creek - Upper / South shore tributary of Onancock Creek at Finneys Neck. Upstream portion of creek. Portion of CBP segment CB7PH. DSS shellfish Restricted-condemnation direct harvesting condemnation # 080-013 (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.035
VAT-C11E_PRK02A08 / Parkers Creek - Middle / South shore tributary of Onancock Creek at Finneys Neck. Middle portion of creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted condemnation # 080-013 (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.041
VAT-C11E_PRK03A08 / Parkers Creek - Lower / South shore tributary of Onancock Creek at Finneys Neck. Area around marina at mouth of Parkers Creek. Portion of CBP segment CB7PH. DSS shellfish seasonal condemnation # 080-013 A (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.086
VAT-C11E_TAR01A06 / Tarkill Creek / Located in Sluitkill Neck area. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Aquatic Plants (Macrophytes)	2006	L	0.190
VAT-C11E_ZZZ01A00 / Unsegmented estuaries in C11E. / Evaluated non segmented portions of C11E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 080-013 (20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.550

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C11E_ZZZ01B22 / Unsegmented estuaries in C11E. / Evaluated non segmented portions of C11E not contained within VACB-R01E-CB7S. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 080-013 (20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.050
VAT-C12E_PUN01A06 / Pungoteague Creek - Upper / W of Melfa. Upper portion of Pungoteague Cr. from the end of tidal waters downstream to Boggs Wharf and Route 634. CBP segment CB7PH. DSS condemnation # 081-119 B (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	0.232
VAT-C12E_PUN01B16 / Pungoteague Creek - Middle-Upper / W of Melfa. Upper portion of Pungoteague Cr. from the Boggs Warf to Horse Hole Creek. CBP segment CB7PH. DSS condemnation Conditionally Approved # 081-119 C4 (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	0.265
VAT-C12E_PUN02A06 / Pungoteague Creek - Lower / Located west of Town of Melfa. Lower portion of Pungoteague Cr. from Horse Hole Creek downstream to mouth. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 081-119 (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	1.186
VAT-C12E_TAY01A06 / Taylor Creek / Located southwest of Harborton. From the end of tidal waters downstream Route 628 and Eastern Shore Yacht Club. Portion of CBP segment CB7PH. Portion of DSS condemnation # 081-119 C (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	0.130
VAT-C12E_TAY02A14 / Taylor Creek- Mouth / Located southwest of Harborton. From Route 628 and Eastern Shore Yacht Club to Puncoteague confluence. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 C (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	0.033
VAT-C12E_UNR01A06 / Underhill Creek / In area of Mount Nebo. North shore tributary to Pungoteague Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 081-119 A (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	0.070
VAT-C12E_WRP01A06 / Warehouse Prong - Upper / Located north of Bobtown and east of Boggs Wharf. Upper portion, from headwaters to confluence with UT. Portion of CBP segment CB7PH. Portion of DSS Restricted condemnation # 081-119 B (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAT-C12E_WRP02A06 / Warehouse Prong - Lower / Located north of Bobtown and east of Boggs Wharf. Lower portion, from confluence with UT downstream to confluence with Pungoteague Cr. Portion of CBP segment CB7PH. DSS (Admin Cond) condemnation # 081-119 B (effective 20200518).	4A	Aquatic Plants (Macrophytes)	2006	L	0.054

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C12E_ZZZ01A00 / Unsegmented Bay Waters in C12E. / Evaluated non segmented portions of C12E, UT south of Pungoteague Cr. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Aquatic Plants (Macrophytes)	2006	L	0.002
VAT-C13E_BCE01A08 / Back Creek / Southwest of Fairview Neck area. North shore tributary of Nandua Cr. Portion of CBP segment CB7PH. DSS Open and Conditionally Approved shellfish direct harvesting condemnation # 082-160 C7 (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.141
VAT-C13E_BOS01A08 / Boggs Gut / Southwest of Fairview Neck area. South shore tributary of Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 D (effective 20200515)	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAT-C13E_CHC01A00 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting OPEN # 085-185 (effective 20191115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.323
VAT-C13E_CHC01B16 / Church Creek -Upper / In area of Elliotts Neck. Tributary to Nassawadox Creek, upstream portion of Church Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-185 B (effective 20191115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.165
VAT-C13E_CHC01C10 / Church Creek - Middle-UT North Cove / In area of Elliotts Neck. Tributary to Church Creek - Middle, UT North Cove. Portion of CBP segment CB7PH. DSS shellfish harvesting condemnation # 085-185 A (effective 20191115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.059
VAT-C13E_CHC01D22 / Church Creek / In area of Elliotts Neck. Tributary to Nassawadox Creek. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted # 085-185 D (effective 20191115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.050
VAT-C13E_CRA01A06 / Craddock Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to end of shellfish condemnation (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 083-195 A (effective 20121210).	4A	Aquatic Plants (Macrophytes)	2006	L	0.082
VAT-C13E_CRA02A08 / Craddock Creek - Lower and UT / Most of Craddock Cr. excluding SF condemnation in upper creek. Including all tribs. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 083-195 (effective 20121210).	4A	Aquatic Plants (Macrophytes)	2006	L	0.911

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_CRR01A08 / Curratuck Creek / Southwest of Fairview Neck area. Lower south shore tributary of middle Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS (OPEN & Conditionally Approved) shellfish direct harvesting condemnation # 082-160 C6(effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.277
VAT-C13E_HGC01A06 / Holly Grove Cove- Upper / Located near Wellington Neck. From end of tidal waters downstream to mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-110 E (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.143
VAT-C13E_KLL01A06 / Kelley Cove / From end of tidal waters downstream to confluence with Nassawadox Cr. (area of TMDL-bact 6/07). Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.026
VAT-C13E_MAG01A08 / McLean Gut - Upper / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.038
VAT-C13E_MAG02A08 / McLean Gut - Lower / Southwest of Fairview Neck area. Middle south shore tributary of middle Nandua Cr. Portion of CBP segment CB7PH. DSS Restricted shellfish direct harvesting condemnation # 082-160 B (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.032
VAT-C13E_NAN01A00 / Nandua Creek - Upper [TMDL-bact.] / Southeast of Hacks Neck area. The two most upstream branches of Nandua Creek, incl. Kusian Cove. Portion of CBP segment CB7PH. DSS condemnation # 082-160 A&C (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.144
VAT-C13E_NAN01B08 / Nandua Creek - Lower Upper / Southwest of Fairview Neck area. North shore tributary of Nandua Cr. near mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 082-160 (effective 20200515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.223
VAT-C13E_NAN02A06 / Nandua Creek - Lower / Lower portion of Nandua Creek including unsegmented tidal tribs., from the confluence of Boggs Gut downstream to mouth (RM 0.0). Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Aquatic Plants (Macrophytes)	2006	L	3.150
VAT-C13E_NSS01A06 / Nassawadox Creek - Upper [TMDL-bact.] / From end of tidal waters downstream to confluence with Kelly Cove (RM 5.2) area of TMDL-bact 6/07. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 B (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.205

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_NSS01B08 / Nassawadox Creek - Upper [No TMDL-bact] / From confluence with Kelly Cove (RM 5.2) downstream to mainstem (outside of area of TMDL-bact 6/07). Portion of CBP segment CB7PH. Portion of DSS (OPEN) shellfish direct harvesting condemnation # 085-110 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.169
VAT-C13E_NSS02A06 / Nassawadox Creek - Lower / Mainstem of lower portion of creek to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 085-110 & 085-185 (effective 20191115).	4A	Aquatic Plants (Macrophytes)	2006	L	2.121
VAT-C13E_NSS03A08 / Nassawadox Creek - Middle, N. Shore Tribs / Occohannock Neck Area. North Shore UTs to lower-middle mainstem Nassawadox. Portion of CBP segment CB7PH. Portion of DSS shellfish direct harvesting condemnation # 085-110 A & C (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.126
VAT-C13E_OCH01A06 / Occohannock Creek - Upper / Upper portion of Occohannock Creek and tidal tribs., from end of tidal waters downstream to Creekside Dr at end of SF restricted area. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 A (effective 20201215).	4A	Aquatic Plants (Macrophytes)	2006	L	0.538
VAT-C13E_OCH02A06 / Occohannock Creek - Lower / Lower portion of Occohannock Creek and tidal tribs., from downstream of Youngs Pt. to mouth (RM 0.0). Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 084-043 (effective 20201215).	4A	Aquatic Plants (Macrophytes)	2006	L	2.469
VAT-C13E_OCH02B08 / Occohannock Creek - Middle Marina Area / In middle portion of Occohannock Creek, marina area of Davis Wharf. Portion of CBP segment CB7PH. DSS SEASONAL shellfish direct harvesting condemnation # 084-043 M1 (effective 20201215).	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAT-C13E_OCH03A08 / Shields Cove & Fisher Cove / West of Belle Haven area. North and South shore tributaries of Occohannock Cr., NW of Youngs Pt. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 084-043 B & C (effective 20201215).	4A	Aquatic Plants (Macrophytes)	2006	L	0.087
VAT-C13E_WHC01A06 / Warehouse Creek - Upper / Southeast fork of upper portion of creek. Portion of CBP segment CB7PH. DSS ADMIN-PROHIB shellfish direct harvesting condemnation # 085-110 F (effective 20201115) (VPDES outfall condemnation for Shore Memorial Hospital STP VA0027537).	4A	Aquatic Plants (Macrophytes)	2006	L	0.032

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C13E_WHC01B10 / Warehouse Creek - Upper Middle (Admin Cond) / Including northern fork and continuing downstream to bend near Wellington Neck. Portion of CBP segment CB7PH. DSS (Admin Cond) shellfish direct harvesting condemnation # 085-110C (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.166
VAT-C13E_WHC02A06 / Warehouse Creek - Lower / Including bend near Wellington Neck to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 085-110 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.246
VAT-C13E_ZZZ01A00 / Unsegmented estuaries in C13E. / Evaluated non segmented portions of C13E. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Aquatic Plants (Macrophytes)	2006	L	0.752
VAT-C14E_BRL01A06 / Barlow Creek / In area of Old Town Neck. South shore tributary to lower Mattawoman Cr. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.049
VAT-C14E_HUG01A00 / Hungars Creek - Upper / Upper portion of Hungars Creek from end tidal waters downstream to end of TMDL boundary near Holloway Dr. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.058
VAT-C14E_HUG01B22 / Hungars Creek - Upper / Upper portion of Hungars Creek from end of TMDL boundary near Holloway Dr to start of open shellfish area near Park Ln. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 A & S195 (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.080
VAT-C14E_HUG02A00 / Hungars Creek - Lower / Lower portion of Hungars Creek near Park Ln upstream of confluence with Jacobus Cr. downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	1.187
VAT-C14E_HUG02B12 / UT to Hungars Creek / Northern trib between Great Neck and Sparrow Point. Restricted portion of SF. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 C (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.039
VAT-C14E_HUG02C14 / Hungars Creek - Northern Trib / Lower portion of Hungars Creek, Trib north of the mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 S196 (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.073

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_JAC01A06 / Jacobus Creek - Upper South Fork / West of Johnstown. Trib to Hungars Cr. Uppermost portion of south branch. Portion of CBP segment CB7PH. DSS (Admin - Prohibition) due to STP VA0023817 Outfall) shellfish direct harvesting condemnation # 086-136F (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.028
VAT-C14E_JAC02A06 / Jacobus Creek - Upper Forks / West of Johnstown. Trib to Hungars Cr. Middle mainstem, north fork and lower portion of south fork. Portion of CBP segment CB7PH. DSS (Admin Cond) shellfish direct harvesting condemnation # 086-136 B (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.152
VAT-C14E_JAC03A06 / Jacobus Creek - Lower / West of Johnstown. South shore trib. to Hungars Cr. Lower mainstem portion. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.187
VAT-C14E_MAT01A06 / Mattawoman Creek - Upper / South of Wilsonia Neck. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 086-136 D & S48 (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.155
VAT-C14E_MAT02A10 / Mattawoman Creek - Lower / South of Wilsonia Neck - mouth of Mattawoman Cr. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 (effective 20200915).	4A	Aquatic Plants (Macrophytes)	2006	L	0.357
VAT-C14E_THG01A06 / The Gulf - Upper / From end of tidal waters downstream to narrowing 0.45 mi. from mouth. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 087-174 A (effective 20150827).	4A	Aquatic Plants (Macrophytes)	2006	L	0.090
VAT-C14E_THG02A06 / The Gulf - Lower / From narrowing 0.45 mi. from mouth downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish condemnation # 087-174 (20150827) & no DSS.	4A	Aquatic Plants (Macrophytes)	2006	L	0.204
VAT-C14E_WHS01A06 / Westerhouse Creek - North Branch [TMDL] / In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 085-199 (20181115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.214
VAT-C14E_WHS02A06 / Westerhouse Creek - Upper South Branch [TMDL] / In Church Neck area, west of Bridgetown. Upper portion of Westerhouse Creek South Branch. Portion of CBP segment CB7PH. Portion DSS shellfish direct harvesting condemnation # 085-199 A (effective 20181115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.019

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C14E_WHS03A20 / Upper Westerhouse Creek - North Branch& Upper Middle [TMDL] / In Church Neck area, west of Bridgetown. Portion of CBP segment CB7PH. DSS shellfish direct harvesting Restricted-condemnation # 085-199 (20181115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAT-C14E_ZZZ01A00 / Unsegmented estuaries in C14E. / Evaluated non segmented portions of C14E - mouth of Matchotank & Hungars Crs. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 086-136 20200915.	4A	Aquatic Plants (Macrophytes)	2006	L	0.838
VAT-C15E_CCB01A06 / Cape Charles Beach / Located west of Town of Cape Charles, along Chesapeake Bay. Portion of CBP segment CB7PH. DSS (Administrative) shellfish harvesting condemnation 089-011 A (effective 20051202) which is present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.079
VAT-C15E_CRS01A06 / Cherrystone Inlet - Upper / From Eyreville Neck end of tidal waters downstream to confluence with Chesapeake Bay. Including Old Castle Cr. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 088-139 (20200815)	4A	Aquatic Plants (Macrophytes)	2006	L	2.138
VAT-C15E_CRS01B18 / Cherrystone Inlet - Eyrehall Cr / SE trib to Cherrystone Inlet. Portion of CBP segment CB7PH. DSS OPEN shellfish direct harvesting condemnation # 088-139 (20200815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.103
VAT-C15E_CRS02A20 / Cherrystone Inlet - Upper / From Eyreville Neck end of tidal waters downstream to the mouth of the inlet. Portion of CBP segment CB7PH. DSS shellfish OPEN # 088-139 (20200815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.243
VAT-C15E_KNS01A00 / Kings Creek - Upper Forks and Middle / From end of tidal waters downstream 0.16 mi. past confluence of the two most upstream forks. Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 088-139 A (20180821).	4A	Aquatic Plants (Macrophytes)	2006	L	0.093
VAT-C15E_KNS03A08 / Kings Creek - Lower Middle / From start of DSS marina area downstream to Cherrystone. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 088-139 (20200815) &Seasonal Condemnation M1.	4A	Aquatic Plants (Macrophytes)	2006	L	0.167
VAT-C15E_KNS03B22 / Kings Creek - Lower Middle / DSS marina area DSS (Admin) shellfish direct harvesting condemnation # 088-139 (20200815) Section B. Portion of CBP segment CB7PH	4A	Aquatic Plants (Macrophytes)	2006	L	0.040
VAT-C15E_KNS04A22 / Kings Creek - Lower Middle / From Townfield Dr to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation OPEN # 088-139 (20200815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.040

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C15E_ZZZ01A08 / Unsegmented estuaries in C15E. / Evaluated non segmented portions of C15E. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation identified.	4A	Aquatic Plants (Macrophytes)	2006	L	0.587
VAT-C16E_CCH01A04 / Cape Charles Harbor - Upper / From most upstream end of harbor downstream to 1/2 distance to mouth (RM 0.23). Portion of CBP segment CB7PH. DSS ADMINISTRATIVE shellfish harvesting condemnation # 089-011 B (effective 20051202) (VPDES outfall Town of Cape Charles STP VA0021288).	4A	Aquatic Plants (Macrophytes)	2006	L	0.056
VAT-C16E_CCH02A00 / Cape Charles Harbor - Lower / From 1/2 distance to mouth (RM 0.23) downstream to mouth. Portion of CBP segment CB7PH. DSS ADMINISTRATIVE shellfish harvesting condemnation # 089-011 A (effective 20051202) (VPDES outfall Town of Cape Charles STP VA0021288).	4A	Aquatic Plants (Macrophytes)	2006	L	0.060
VAT-C16E_KPT01A06 / Kiptopeke Beach / Located west of Cedar Grove, along Chesapeake Bay, near southern tip of Eastern Shore. Portion of CBP segment CB7PH. No DSS shellfish direct harvesting condemnation present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.044
VAT-C16E_OPC01A06 / Old Plantation Creek - Upper [TMDL-bact] / Upper portion of Old Plantation Creek within TMDL-Bact (33771). CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.044
VAT-C16E_OPC01B08 / Old Plantation Creek - Upper [No TMDL-bact] / Upper portion of Old Plantation Creek and one southeast embayment not within TMDL-Bact (33771). Portion of CBP segment CB7PH. DSS shellfish direct harvesting condemnation # 090-152 A (effective 20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.152
VAT-C16E_OPC02A00 / Old Plantation Creek - Lower / Lower portion of Old Plantation Creek, from approx. Red Bank (RM 2.0) downstream to mouth. Portion of CBP segment CB7PH. DSS (OPEN) shellfish direct harvesting condemnation # 090-152 (20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.926
VAT-C16E_ZZZ01A00 / Unsegmented estuaries in C16E. / Evaluated non segmented portions of C16E. Portion of CBP segment CB7PH. DSS Shellfish OPEN condemnation 20190815.	4A	Aquatic Plants (Macrophytes)	2006	L	0.146

Chesapeake Bay segment CB7PH

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
575.227		

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay segment CB7PH

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shallow-Water Submerged Aquatic Vegetation			
Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:	575.227		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: CB8PH-SAV-BAY Chesapeake Bay segment CB8PH

Cause Location: This cause encompasses the complete CBP segment CB8PH.

Cause City/County: Chesapeake Bay - County Not Applicable; Hampton; Norfolk; Virginia Beach

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: The acres of submerged aquatic vegetation (SAV) mapped through aerial surveys do not meet the criteria. Submerged Aquatic Vegetation acres goal is 10 acres. Aerial analysis of SAV over the three most recent years of data indicate segment has attained 35% of this goal. There is insufficient data to assess the water clarity criteria.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-04DE / Chesapeake Bay - S. Thimble Island BSS Condemnation #163 / Va Dept of Health Shellfish zone #163. Open to shellfish harvesting as of 4/25/2007. S. Thimble Island. HUC: 02080101	4A	Aquatic Plants (Macrophytes)	2006	L	0.027
VACB-R01E-04EE / Chesapeake Bay - Off Little Creek BSS #068-017, Section C. / Va Dept of Health Shellfish (administrative) closure #068-017, A portion of section C. Off Little Creek. HUC: 02080101.[effective 2005-3-08]	4A	Aquatic Plants (Macrophytes)	2006	L	0.540
VACB-R01E-04GE / Chesapeake Bay - Off Little Creek BSS #068-017, Areas A & B / Va Dept of Health Shellfish (administrative) closure #068-017, Off Little Creek, Sections A and B. HUC: 02080101.[effective 2005-3-08]	4A	Aquatic Plants (Macrophytes)	2006	L	1.355
VACB-R01E-CB8 / Chesapeake Bay - CBP Segment CB8PH / This assessment unit is the mainstem portion of Chesapeake Bay Program segment CB8PH, located in the Virginia Chesapeake Bay between the mouths of the James River and mouth of Chesapeake Bay. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	141.796
VAT-C07E_BCB01A06 / Buckroe Beaches / From northeast of Buckroe Beach southwest to parallel with start of Mill Cr. Portion of CBP Segment CB8PH. No DSS shellfish condemnations.	4A	Aquatic Plants (Macrophytes)	2006	L	0.224
VAT-C07E_FMB01A12 / Fort Monroe Beaches / All of Fort Monroe Beach from the start of Mill Cr south to Lighthouse Old Point Comfort. Portion of CBP Segment CB8PH. No DSS shellfish condemnations.	4A	Aquatic Plants (Macrophytes)	2006	L	0.333
VAT-C07E_GRV01A06 / Grandview Pier & Saltponds Beaches / From Grandview beach southwest to northeast of Buckroe Beach. Offshore of Buckroe Beach VDH monitoring. area Portion of CBP Segment CB8PH. No DSS shellfish condemnation present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.241

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_GRV02A10 / Grandview Pier & Saltponds Beaches [No TMDL] / From southernmost point of Grandview Beach southwest to northeast of Buckroe Beach. Shoreward of GRV01A06. Portion of CBP Segment CB8PH. DSS ADMIN shellfish condemnation # 055-216 A (effective 20080530).	4A	Aquatic Plants (Macrophytes)	2006	L	0.119
VAT-C07E_LON02A10 / Long & Grunland Creeks - DSS Admin Area / South shore trib. to mainstem Back R. Portion adjacent to Grandview area. CBP Segment CB8PH. DSS shellfish harvesting condemnation # 055-216 A ADMIN. Cond. (effective 20080530).	4A	Aquatic Plants (Macrophytes)	2006	L	0.085
VAT-C08E_CBB01A06 / 13th View Beach / Located along Chesapeake Bay, in Norfolk. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.353
VAT-C08E_CBB01B14 / Sara Constance Park and Ocean View Park Beaches / Located along Chesapeake Bay, in Norfolk. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.140
VAT-C08E_CBB01C16 / 10th View Beach / Located along Chesapeake Bay, in cities of Norfolk and Virginia Beach. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.152
VAT-C08E_CBB02A16 / Ches Bay Beaches / Located along Chesapeake Bay, in cities of Norfolk and Virginia Beach. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.631
VAT-C08E_CBB02B20 / North Community Beach / Located along Chesapeake Bay, in cities of Norfolk and Virginia Beach. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.044
VAT-C08E_CBB03A16 / Chicks Beach / Located along Chesapeake Bay near Chesapeake Bay Bridge Tunnel, in cities of Norfolk and Virginia Beach. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.	4A	Aquatic Plants (Macrophytes)	2006	L	0.433
VAT-C08E_CBB04A16 / Shore Drive Beaches -East / Located along Chesapeake Bay, Virginia Beach. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.	4A	Aquatic Plants (Macrophytes)	2006	L	1.041

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_LCC01A08 / Little Creek & Harbor / Entire area of Little Creek and upper portion of Little Creek Harbor. From headwaters of Little Cr. downstream to lower portion of Harbor at mouth of Bay. CBP segment CB8PH. DSS (ADMINISTRATIVE) condemnation # 068-017 C (effective 20050308).	4A	Aquatic Plants (Macrophytes)	2006	L	1.064

Chesapeake Bay segment CB8PH

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
148.577		

Chesapeake Bay segment CB8PH

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
148.577		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D01E-02-BAC Little Mosquito Creek

Cause Location: This cause encompasses the upper and lower portions of the Creek.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use is not supporting due to exceedance of the criteria for Enterococci bacteria (7 violates / 34 obs.) at 7-LTM000.80. TMDL for Little Mosquito approved for SF and Recreation 1/15/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D01E_LTM01A06 / Little Mosquito Creek - Upper / From headwaters downstream to confluence of Snead Branch. Area of DSS Prohibited (ADMINISTRATIVE-due to VPDES outfall @ VA0024457) condemnation 100-032 B (effective 2010-11-08).	4A	Enterococcus	2004	L	0.071
VAT-D01E_LTM02A04 / Little Mosquito Creek - Lower / From confluence of Snead Branch downstream to mouth. DSS shellfish ADMINISTRATIVE CONDEMNATION # 100-032 A (effective 2010-11-08).	4A	Enterococcus	2004	L	0.138

Little Mosquito Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.208		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D01E-02-DO Little Mosquito Creek

Cause Location: This cause encompasses the upper and lower portions of the Creek.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: Aquatic Life Use not supporting based on DO criteria exceedances with 4 violations / 35 observation at the downstream station. pH supports Aquatic Life Use with 0 violations / 35 observations. The data to assess the Aquatic Life Use is extrapolated from downstream station (DEQ-AQM station @ 7-LTM000.80).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D01E_LTM01A06 / Little Mosquito Creek - Upper / From headwaters downstream to confluence of Snead Branch. Area of DSS Prohibited (ADMINISTRATIVE-due to VPDES outfall @ VA0024457) condemnation 100-032 B (effective 2010-11-08).	5A	Dissolved Oxygen	2008	H	0.071
VAT-D01E_LTM02A04 / Little Mosquito Creek - Lower / From confluence of Snead Branch downstream to mouth. DSS shellfish ADMINISTRATIVE CONDEMNATION # 100-032 A (effective 2010-11-08).	5A	Dissolved Oxygen	2004	H	0.138

Little Mosquito Creek

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	0.208		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D01E-04-BAC** **Swans Gut Creek**

Cause Location: This cause encompasses from the Virginia/Maryland state line downstream to Rivermile 0.13, above the confluence with Chincoteague Bay.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: Recreation Use is impaired based on exceeding criteria (8 violates / 17 obs.) for Enterococcus bacteria @ 7-SGT002.46. Impairment is included in the Bacteria TMDL for Swans Gut Creek EPA approved 1/15/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D01E_SGT01A04 / Swans Gut Creek / From Virginia/Maryland state line downstream to RM 0.13, above the confluence with Chincoteague Bay. DSS shellfish direct harvesting Restricted ADMIN condemnation # 100-097 A (effective 2018-12-18).	4A	Enterococcus	2006	L	0.1

Swans Gut Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.1		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D01E-04-DO** **Swan Gut Creek**

Cause Location: This cause encompasses the entirety of Swan Gut Creek. From Virginia/Maryland state line downstream to Rivermile 0.13, above the confluence with Chincoteague Bay.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic Life Use is impaired based on DO exceedances of 7 / 25 at station 7-SGT002.46.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D01E_SGT01A04 / Swans Gut Creek / From Virginia/Maryland state line downstream to RM 0.13, above the confluence with Chincoteague Bay. DSS shellfish direct harvesting Restricted ADMIN condemnation # 100-097 A (effective 2018-12-18).	5A	Dissolved Oxygen	2004	L	0.1

Swan Gut Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	0.1		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D01E-17-SF Swans Gut Creek-restricted SF

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation # 100-097 A effective date 20181206

Cause City/County: Accomack County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is not supported based on the DSS Condemnation # 100-097 A effective date 20181206. This impairment was split from VAT-D01E_SGT02A08 in 2016. This SF restricted area in 2016 is included in the TMDL for Shellfish Areas Listed due to Bacterial Contamination: Chincoteague Bay EPA approved 7/31/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D01E_SGT01B16 / Swans Gut Creek / From RM 0.13 to end of restricted SF area (confluence with Chincoteague Bay). DSS shellfish direct harvesting condemnation # 100-097 A (effective 2018-12-06).	4A	Fecal Coliform	2016	L	0.013

Swans Gut Creek-restricted SF

Shellfishing		Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
	Fecal Coliform - Total Impaired Size by Water Type:	0.013		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D01E-19-EBEN** **Chincoteague Bay**

Cause Location: This cause encompasses the southwest portion of Chincoteague Bay and west of Chincoteague Island; this cause is a relatively small circular area of southwest Chincoteague Bay.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Estuarine Bioassessments/5A

Cause Description: Benthic probmon; WoE Station 7-CHT001.12. Potential chronic effects of cumulative sediment metals; excessive abundance of tubificids and spionids suggests possible eutrophication.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D01E_CHT01B20 / Chincoteague Bay / West of Chincoteague Island (southwest circular area). DSS condemnation #s (OPEN) 100-097, 100-032, 100-153 & 101-020 (effective dates 10-25-2012, 11-9-2005, 5-16-2007)	5A	Estuarine Bioassessments	2020	L	0.016

Chincoteague Bay

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Estuarine Bioassessments - Total Impaired Size by Water Type:	0.016		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02E-01-BAC Assawoman Creek- Upper/Lower

Cause Location: This cause encompasses the entirety of Assawoman Creek. This Creek is North of Assawoman Island and discharges to Womans Bay.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use is not supporting based on Enterococcus exceedances of the swimming criteria indicator at the lower segment (13 violates / 36 obs.) at Station 7-ASW003.36. The upper portion of Assawoman assess Recreation Use based on the extrapolated from downstream station.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D02E_ASW01A00 / Assawoman Creek - Upper / From headwaters downstream to confluence of Pettit Branch (RM 3.4). Portion of DSS shellfish direct harvesting condemnation # 099-135A (effective 2017-12-12)	4A	Enterococcus	1998	L	0.073
VAT-D02E_ASW02A00 / Assawoman Creek - Lower / From confluence of Pettit Branch downstream to end of Shellfish Condemnation. Portion of DSS shellfish direct harvesting condemnation # 099-135 (effective date 2017-12-12).	4A	Enterococcus	1998	L	0.054
VAT-D02E_ASW02B12 / Assawoman Creek - Lower / From end of condemnation to mouth . Portion of DSS shellfish direct harvesting condemnation # OPEN 099-135 (effective date 2017-12-12).	4A	Enterococcus	1998	L	0.010

Assawoman Creek- Upper/Lower

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.136		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02E-01-DO Assawoman Creek- Upper/Lower

Cause Location: This cause encompasses the entirety of Assawoman Creek. This Creek is North of Assawoman Island and discharges to Womans Bay.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic Life Use is impaired based on DO concentrations that exceed the criteria for this parameter with 8 violates/ 36 obs. At Station 7-ASW003.36. The upper portion of Assawoman Creek assessed using downstream monitoring at Station 7-ASW003.36.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D02E_ASW01A00 / Assawoman Creek - Upper / From headwaters downstream to confluence of Pettit Branch (RM 3.4). Portion of DSS shellfish direct harvesting condemnation # 099-135A (effective 2017-12-12)	5A	Dissolved Oxygen	2008	H	0.073
VAT-D02E_ASW02A00 / Assawoman Creek - Lower / From confluence of Pettit Branch downstream to end of Shellfish Condemnation. Portion of DSS shellfish direct harvesting condemnation # 099-135 (effective date 2017-12-12).	5A	Dissolved Oxygen	2004	H	0.054
VAT-D02E_ASW02B12 / Assawoman Creek - Lower / From end of condemnation to mouth . Portion of DSS shellfish direct harvesting condemnation # OPEN 099-135 (effective date 2017-12-12).	5A	Dissolved Oxygen	2004	H	0.010

Assawoman Creek- Upper/Lower

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	0.136		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02E-01-SF Assawoman Creek- Upper/Lower

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number # 099-135 A (effective 2017-12-12).

Cause City/County: Accomack County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting based on DSS Condemnation # 099-135 A (effective 2017-12-12).

TMDL for Recreation and Shellfish bacteria impairments completed and approved 1/15/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D02E_ASW01A00 / Assawoman Creek - Upper / From headwaters downstream to confluence of Pettit Branch (RM 3.4). Portion of DSS shellfish direct harvesting condemnation # 099-135A (effective 2017-12-12)	4A	Fecal Coliform	1998	L	0.073
VAT-D02E_ASW02A00 / Assawoman Creek - Lower / From confluence of Pettit Branch downstream to end of Shellfish Condemnation. Portion of DSS shellfish direct harvesting condemnation # 099-135 (effective date 2017-12-12).	4A	Fecal Coliform	1998	L	0.054

Assawoman Creek- Upper/Lower

Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.126		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02E-10-SF Unsegmented estuaries in D02E

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 099-135 A 10/27/2016.

Cause City/County: Accomack County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting based on DSS Condemnation # 099-135 A effective date 10-27-2016. Nested within Assawoman Creek TMDL completed and approved 1/15/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D02E_ZZZ01B10 / Unsegmented estuaries in D02E / Evaluated non-segmented estuaries in D02E. DSS shellfish condemnations 099-135 A (effective 12/12/2018).	4A	Fecal Coliform	2010	L	0.007

Unsegmented estuaries in D02E

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shellfishing			
Fecal Coliform - Total Impaired Size by Water Type:	0.007		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D02R-01-BAC** **Pettit Branch**

Cause Location: This cause encompasses the entirety of the Pettit Branch water. South shore tributary to Assawoman Creek. From headwaters to start of tidal waters.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: The Recreation Use is impaired due to exceedance of the criteria for E.coli bacteria at station 7-PET000.80. TMDL completed and approved 11/7/2008.

1998 CD segment for FC & benthics (Attachment A, Category 1, Part 1) VAT-D02R-01.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D02R_PET01A00 / Pettit Branch / South shore tributary to Assawoman Creek. From headwaters to start of tidal waters.	4A	Escherichia coli (E. coli)	1998	L	1.89

Pettit Branch

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			1.89

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02R-01-BEN Pettit Branch

Cause Location: This cause encompasses the entirety of the Pettit Branch water. South shore tributary to Assawoman Creek. From headwaters to start of tidal waters.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/4A

Cause Description: DEQ Streams Benthic-Macroinvertebrate Bioassessments using VCPMI. The Aquatic Life Use is impaired due to impacts to the stream's benthic population (VCPMI [2015: S= 25.4 F= 9.2 ; 2013: 14.4, 2010_IM: S=9.0, F=20.2] [2008_IM:S=11.7, F=23.0]). Possible runoff effects from Eastern Shore Seafood.

TMDL EPA approved 7/29/2010 for benthic D02R-01-BEN

1998 CD segment for FC & benthics (Attachment A, Category 1, Part 1) VAT-D02R-01.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D02R_PET01A00 / Pettit Branch / South shore tributary to Assawoman Creek. From headwaters to start of tidal waters.	4A	Benthic Macroinvertebrates Bioassessments	1996	L	1.89

Pettit Branch

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.89

Sources: Seafood Processing Operations

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02R-02-BAC Assawoman Creek

Cause Location: Riverine Portion of Assawoman Creek near Temperanceville Rd and east of Hwy 13.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: The Recreation Use is impaired based on E. coli data collected @ Station 7-ASW008.88 (2020 Cycle: 2 viol / 3 obs).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D02R_ASW01A16 / Assawoman Creek / Riverine Portion of Assawoman Creek near Temperanceville Rd and east of Hwy 13.	5A	Escherichia coli (E. coli)	2020	L	1.03

Assawoman Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			1.03

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03E-02-BAC Finney Creek - Upper

Cause Location: This cause encompasses the upper portion of Gargathy Creek. Tributary to Hummock Cove, station located near Locustville. Upper portion upstream of widening (approx, RM 2.38).

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Recreation Use is impaired due to 7 viol / 11 obs. of the criteria for Enterococci bacteria at DEQ (AQM) station @ 7-FNC002.46. Previous impairment was based on Fecal Coliform data during the 2006 cycle at Station 7-FNC002.43. The Recreation Use impairment is included in the TMDL for Pathogens for Finney Creek, EPA approved 9/ 2012.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03E_FNC01A04 / Finney Creek - Upper / Tributary to Hummock Cove, station located near Locustville. Upper portion upstream of widening (approx. RM 2.38). No DSS shellfish direct harvesting condemnation.	4A	Fecal Coliform	2004	L	0.002

Finney Creek - Upper

Recreation	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.002		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03E-05-BAC Parker Creek - Middle and Lower

Cause Location: This cause encompasses the middle and lower portions of Parker Creek. Tributary to Metompkin Bay. Middle estuarine portion of creek, from confluence of North Fork (RM 1.3) downstream to end of DSS condemnation.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use is impaired based on Enterococcus data collected at 7-PAR001.20 with 4 viol /11 obs. There is a TMDL for Recreation and Shellfish impairments that was EPA approved 1/15/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03E_PAR01A06 / Parker Creek - Middle / Tributary to Metompkin Bay. Middle estuarine portion of creek, from confluence of North Fork (RM 1.3) downstream to end of DSS (ADMINISTRATIVE) shellfish condemnation # 098-098B (effective 2005-06-15).	4A	Enterococcus	2006	L	0.018
VAT-D03E_PAR02A06 / Parker Creek - Lower / Tributary to Metompkin Bay. Lower estuarine portion of creek, from start of DSS shellfish Admin condemnation downstream to mouth (RM 0.0). DSS shellfish condemnation # 098-098A (effective 2005-06-15).	4A	Enterococcus	2006	L	0.029

Parker Creek - Middle and Lower

Recreation	Enterococcus - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.047		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D03E-07-BAC** Wachapreague Channel

Cause Location: This cause encompasses a portion of Wachapreague Channel. Portion below Bunting Point Road to boat launch. Segment around area at Wachapreague Harbor.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/5A

Cause Description: Data to assess the Use extrapolated from upstream station at 7-WAS003.26. Recreation Use was previously not supporting based on data for Enterococci with 1 exceedance of 17 samples. In the 2022 IR cycle, there are 0 out of 24 samples with an insufficient status due to no STV exceedances but insufficient data to analyze geomean. The impaired status is retained.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_WAS02A14 / Wachapreague Channel / Located east of Wachapreague. Segment around area at Wachapreague harbor. DSS shellfish harvesting condemnation # 097-219 M1 (effective 2013-09-05).	5A	Enterococcus	2008	L	0.026

Wachapreague Channel

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.026		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D03E-08-DO** Northam Creek

Cause Location: This cause encompasses a portion of Northam narrows between Hog Neck Creek and Mud Narrows, below Assawoman Creek.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic Life Use impairment is retained due to dissolved oxygen concentrations from 2008 Assessment (3 violates / 3 obs.) below the criteria minimum.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03E_NOT01A08 / Northam Creek / Estuarine portion of Northam Creek DSS (OPEN) # 099-135 OPEN effective date 2017-12-12.	5A	Dissolved Oxygen	2004	L	0.028

Northam Creek

Aquatic Life	Dissolved Oxygen - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.028		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-01-BAC Parker Creek

Cause Location: This cause encompasses the Riverine section of Parker Creek, from headwaters (at PERDUE plant - VA0003808) downstream to start of tidal waters (downstream of RM 2.9). Located northeast of Accomack.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: The Recreation Use is impaired due to exceedance of the criteria for E.coli bacteria (7-PAR003.09 - 26 violates / 33 obs.) and (7-PAR004.35 - 0 violates / 2 obs. impairments dropped off and therefore station can not be delisted).NESTED within Parker Creek TMDL for Recreation and Shellfish impairments EPA approved 1/15/2008.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_PAR01A00 / Parker Creek / Riverine section of Parker Creek, from headwaters (at PERDUE plant - VA0003808) downstream to start of tidal waters (downstream of RM 2.9). Located northeast of Accomack.	4A	Escherichia coli (E. coli)	1994	L	2.03

Parker Creek

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		2.03

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-01-BEN Parker Creek

Cause Location: This cause encompasses the Riverine section of Parker Creek, from headwaters (at PERDUE plant - VA0003808) downstream to start of tidal waters (downstream of RM 2.9). Located northeast of Accomack.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/4A

Cause Description: The Aquatic Life Use is impaired due to impacts to the stream's benthic population. Benthic population impacts were recorded at the following sample events:

7-PAR003.09 - VCPMI [2012_IM: S=8.0, F=14.4, 2013:S=10.7 F=15.5 2014: F=18.0 2015: S= 9.1 F = 7.7 2016: S = 8.0 F= 31.2 2018: S=17.2 F=22.7 2017: S=31.1]

7-PAR004.35 - VCPMI [2009: S=1.9 F=10.5 2010: S=12.7 F=19.1 2011:S=16.5 F=12.5 2012: S=13.2, F=31.2; 2013: S=19.4 F=17.6 2014: F=18.8 2015: S= 13.2 F= 18.8 2016: S= 9.0 F= 22.3 2018: S=11.4 F=28.5 2017: S=17.4 F=12.4]

TMDL for benthic EPA approved 11/7/08.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_PAR01A00 / Parker Creek / Riverine section of Parker Creek, from headwaters (at PERDUE plant - VA0003808) downstream to start of tidal waters (downstream of RM 2.9). Located northeast of Accomack.	4A	Benthic Macroinvertebrates Bioassessments	1994	L	2.03

Parker Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		2.03

Sources: Agriculture; Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D03R-01-DO** **Rattrap Creek**

Cause Location: Rattrap Creek perpendicular to Forest Rd and Eastern Shore Railroad.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic life Use is impaired due to DO data collected @ Station 7-RTT004.32 (2/7 exceedance rate).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_RTT02A20 / Rattrap Creek / Rattrap Creek perpendicular to Forest Rd and Eastern Shore Railroad.	5A	Dissolved Oxygen	2022	L	1.51

Rattrap Creek

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.51

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-02-BAC Gargathy Creek

Cause Location: This cause encompasses the Riverine portion of Gargathy Creek, from headwaters downstream to beginning of tidal waters. Located southeast of Nelsonia.

Cause City/County: Accomack County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: The Recreation Use impairment is retained from 2004 list date for Fecal Coliform. No bacteria data within assessment window. TMDL of DO and Pathogens for Gargathy Creek (Upper, Lower and Riverine Portions) in Accomack County, Virginia EPA approved 10/17/2012.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_GAR01A02 / Gargathy Creek / Riverine portion of Gargathy Creek, from headwaters downstream to beginning of tidal waters. Located southeast of Nelsonia.	4A	Escherichia coli (E. coli)	2004	L	2.84

Gargathy Creek

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			2.84

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-03-BEN Ross Branch

Cause Location: This cause encompasses the Riverine section of Ross Branch, segment begins at headwaters extending downstream to start of tidal waters. Located south of Accomack. Tributary to Folly Creek.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use is impaired due to impacts to the stream's benthic population. DEQ Streams Benthic-Macroinvertebrate Bioassessments using VCPMI at Station 7-RSS001.40.

VCPMI [2020: S=8.5 F=33.5 2019: S=12.6 2014: F=26.4 2012: F=29.3, 2010: S=13.0, F=12.6] Site is often dominated by high numbers of scuds which drive down taxa richness scores. Site is possibly affected by agricultural runoff.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_RSS01A02 / Ross Branch / Tributary to Folly Creek. Riverine section of Ross Branch, segment begins at headwaters extending downstream to start of tidal waters. Located south of Accomack.	5A	Benthic Macroinvertebrates Bioassessments	2002	H	3.2

Ross Branch

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		3.2

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-04-BEN Unnamed tributary to Folly Creek

Cause Location: This cause encompasses the headwaters downstream to start of tidal waters. Located east of Accomack, near Edge Hill Cemetery.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: ALUS is impaired based on benthic VCPMI scores. Benthic population impacts were recorded at the following sample events: 7-XDE000.40 - VCPMI [2020: S=10 F=51] and [2018: S=12.6 F=36.8I] and [2012: F=36.4] and [2014: F=50.4] and [2010_IM:S=14.1, F=54.0] and [2008: S=13.0, F=37.3] and [2007: S=12.2 and F = 29.7]. Observations during benthic data collection - Stream has a petroleum smell .

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_XDE01A02 / Unnamed tributary to Folly Creek / Segment begins at headwaters downstream to start of tidal waters. Located east of Accomack, near Edge Hill Cemetery.	5A	Benthic Macroinvertebrates Bioassessments	2002	H	1.54

Unnamed tributary to Folly Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.54

Sources: Leaking Underground Storage Tanks; Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D03R-05-BEN** **Rattrap Creek**

Cause Location: This cause encompasses the end of Finneys Creek near Locustville. Near Intersection of Drummond Rd and Locustville Rd, approx 2.6 mi.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use is impaired based on the streams Benthic population as recorded at the following sample event: 7-RTT000.49 with VCPMI [IM_ 2014: S=35.3 2013: F=31.6 2010: S=23.2, F=26.8] and 7-RTT000.74 [2020: S= 28 F=32].

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_RTT01A12 / Rattrap Creek / End of Finneys Creek near Locustville. Near Intersection of Drummond Rd and Locustville Rd, approx 2.6 mi.	5A	Benthic Macroinvertebrates Bioassessments	2012	H	2.74

Rattrap Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		2.74

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D03R-06-BEN** North Fork

Cause Location: This cause encompasses the north Fork of Parker Creek. Near Parker Neck. From the end of tidal waters crossing US Route 13 to end of stream.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use is impaired based on the benthic VCPMI scores collected at station 7-PNF001.98. Benthic Data IM [2011:S=39.4 F=10.0 2013: F=7.2 2014: S=16.4 2020: F=28]. There is potential stress causing the low scores at this site. Physical habitat conditions may also be influencing diversity, as riparian zone width is suboptimal and there is noticeable sedimentation in the stream.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_PNF01A14 / North Fork / North Fork of Parker Creek. Near Parker Neck. From the end of tidal waters crossing US Route 13 to end of stream.	5A	Benthic Macroinvertebrates Bioassessments	2016	H	3.13

North Fork

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:			3.13

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-07-BEN Custis Creek

Cause Location: This cause encompasses the riverine portion of Creek off of Burtons Bay near Locustville.

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use is not supported based on the benthic macroinvertebrate data collected at Station 7-CUS004.08. Benthic data was evaluated using the VCPMI index. Data was collected in 2013 with S=17.5 and F= 15.5. This is a small first order stream on the eastern shore similar to Ross Branch in habitat. Custis Creek site has limited instream habitat for colonization of benthic organisms and may be subject to agricultural runoff from nearby farm fields. The stream seems to be dominated by midges and fingernail clams. Both values are below the 40 VCPMI criteria and therefore this station is listed as impaired.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D03R_CUS01A16 / Custis Creek / Riverine portion of Creek off of Burtons Bay near Locustville.	5A	Benthic Macroinvertebrates Bioassessments	2016	H	1.23

Custis Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.23

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-01-DO Red Bank Creek-Upper

Cause Location: This cause encompasses all portions of Red Bank Creek. Tributary to Hog Island Bay.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic Life Use impairment is retained from 2008 Assessment. No new data within assessment window. Impaired (2 violates / 3obs.) due to dissolved oxygen concentrations below the criteria minimum (4.0 mg/l).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_RBC01A08 / Red Bank Creek - Upper / Tributary to Hog Island Bay. Southeast of Marionville, near Brick House Neck. Segment from end of tidal waters downstream to confluence of UT (XDF). DSS shellfish direct harvesting condemnation # 095-192 (effective 2018-05-30).	5A	Dissolved Oxygen	2004	L	0.003

Red Bank Creek-Upper

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.002		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-02-DO Unnamed tributary to Red Bank Creek

Cause Location: This cause encompasses a portion of an unnamed Tributary to Red Bank Creek. Southeast of Marionville, near Brick House Neck. Segment from first branching of creek (RM 0.3) downstream to confluence with Red Bank Creek. DSS shellfish direct harvesting conde

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic Life Use impairment is retained based on DO violations. Previous Assessment: The Aquatic Life Use is impaired due to dissolved oxygen concentrations (2 exc/ 4 samples) below the criteria minimum (4.0 mg/l).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_XDF01A04 / Unnamed tributary to Red Bank Creek / Tributary to Red Bank Creek. Southeast of Marionville, near Brick House Neck. Segment from first branching of creek (RM 0.3) downstream to confluence with Red Bank Creek. DSS OPEN shellfish direct harvesting condemnation # 095-192 A (effective 2011-9-08).	5A	Dissolved Oxygen	2020	L	0.009

Unnamed tributary to Red Bank Creek

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	0.009		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D04E-05-BAC** **Machipongo River**

Cause Location: This cause encompasses from the end of tidal waters downstream to 0.5 mi. south of Rt 182 crossing (minus area at mouth of Greens Creek).

Cause City/County: Accomack County; Northampton County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: The Recreation Use is impaired based on E.coli concentration exceed the swimming criteria indicator at station 7-MAC008.55 (2 violates/ 12 obs.). Bacteria TMDL Development in Red Bank Creek and Machipongo River, Virginia was completed and EPA approved 1/26/2015.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_MAC01A00 / Machipongo River / Located east of Exmore. Segment extends from end of tidal waters downstream to 0.5 mi. south of Rt 182 crossing (minus area at mouth of Greens Creek). DSS Admin condemnation # 096-218 A (effective date 2009-9-11).	4A	Enterococcus	2008	L	0.314

Machipongo River

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.314		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-07-SF Red Bank Creek - Upper

Cause Location: Tributary to Hog Island Bay. Southeast of Marionville, near Brick House Neck. Segment from end of tidal waters downstream to confluence of UT (XDF).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is impaired based on the DSS shellfish Restricted condemnation # 095-192 effective 2018-05-30.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_RBC01A08 / Red Bank Creek - Upper / Tributary to Hog Island Bay. Southeast of Marionville, near Brick House Neck. Segment from end of tidal waters downstream to confluence of UT (XDF). DSS shellfish direct harvesting condemnation # 095-192 (effective 2018-05-30).	4A	Fecal Coliform	2020	L	0.003

Red Bank Creek - Upper

Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		0.002		

Sources: Agriculture; Impacts from Land Application of Wastes; Livestock (Grazing or Feeding Operations); On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Sewage Discharges in Unsewered Areas; Urban Runoff/Storm Sewers; Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-08-SF Red Bank Creek - Middle and Lower

Cause Location: Tributary to Hog Island Bay. Segment approx 0.37 mi. from UT (XDF) to boat dock. DSS shellfish Restricted condemnation # 095-192 (effective 2018-05-30).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is impaired based on the DSS shellfish Restricted condemnation # 095-192 effective 2018-05-30.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_RBC02A08 / Red Bank Creek - Middle & Lower / Tributary to Hog Island Bay. Segment approx 0.37 mi. from UT (XDF) to boat dock. DSS shellfish Restricted condemnation # 095-192 (effective 2018-05-30).	4A	Fecal Coliform	2020	L	0.029

Red Bank Creek - Middle and Lower

Shellfishing

Fecal Coliform - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
	0.029		

Sources: Agriculture; Impacts from Land Application of Wastes; Livestock (Grazing or Feeding Operations); On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Sewage Discharges in Unsewered Areas; Urban Runoff/Storm Sewers; Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-09-DO **Quinby Harbor-Upshur Bay**

Cause Location: Located east of Quinby. Segment around area at mouth of Quinby Harbor. DSS shellfish seasonal direct harvesting condemnation # 096-218 M1 (effective 2009-9-11).

Cause City/County: Accomack County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic Life Use is impaired due to DO impairment @ Station 7-UPS001.97 (5 viol / 22 obs).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_UPS01A06 / Quinby Harbor-Upshur Bay / Located east of Quinby. Segment around area at mouth of Quinby Harbor. DSS shellfish seasonal direct harvesting condemnation # 096-218 M1 (effective 2009-9-11).	5A	Dissolved Oxygen	2020	L	3.389

Quinby Harbor-Upshur Bay

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	3.389		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D04E-10-SF** **Unnamed tributary to Red Bank Creek**

Cause Location: Tributary to Red Bank Creek. Southeast of Marionville, near Brick House Neck. Segment from first branching of creek (RM 0.3) downstream to confluence with Red Bank Creek.

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is impaired based on the DSS shellfish Restricted condemnation # 095-192 A effective 2018-05-30.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_XDF01A04 / Unnamed tributary to Red Bank Creek / Tributary to Red Bank Creek. Southeast of Marionville, near Brick House Neck. Segment from first branching of creek (RM 0.3) downstream to confluence with Red Bank Creek. DSS OPEN shellfish direct harvesting condemnation # 095-192 A (effective 2011-9-08).	4A	Fecal Coliform	2006	L	0.009

Unnamed tributary to Red Bank Creek

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.009		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D04E-11-EBEN** Machipongo River-Middle

Cause Location: Middle-Machipongo River

Cause City/County: Accomack County; Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Estuarine Bioassessments/5A

Cause Description: 7CMAC002.45 - '17 C2 (5A). Benthic probmon. Potential exists for chronic effects of sediment metals.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04E_MAC01B20 / Machipongo River-Middle / Middle-Machipongo River	5A	Estuarine Bioassessments	2020	L	0.134

Machipongo River-Middle

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Estuarine Bioassessments - Total Impaired Size by Water Type:	0.134		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D04R-01-DO** **Red Bank Creek**

Cause Location: This cause encompasses the area southeast of Marionville. Segment from headwaters downstream to end of tidal waters.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5C

Cause Description: The Aquatic Life Use is impaired for DO at Station 3-RBC003.87 with DO 3 exc/11 samples. pH is supported with 0 exc/ 11 samples. Draft DO natural conditions evaluation for this impairment and Unnamed tributary to Red Bank Creek .

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04R_RBC01A04 / Red Bank Creek / Southeast of Marionville. Segment from headwaters downstream to end of tidal waters.	5C	Dissolved Oxygen	2016	L	1.37

Red Bank Creek

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.37

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D04R-04-BEN** UT to Mill Creek

Cause Location: This cause encompasses the Unnamed trib to Mill Creek Stream. Stream is east of Treherneville crossing over Route 600.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The ALUS is not supported based on the benthic data collected in 2011 using the VCPMI. The Spring score was 20.9 and the Fall was 9.0. Habitat is adequate for colonization of a healthy benthic community, but pH is somewhat acidic and dissolved oxygen was very low in the spring. The stream was dominated by midge larvae, a frequent indicator of human disturbance.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D04R_XER01A14 / UT to Mill Creek / Unnamed trib to Mill Creek Stream. Stream is east of Treherneville crossing over Route 600.	5A	Benthic Macroinvertebrates Bioassessments	2014	L	1.49

UT to Mill Creek

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:			1.49

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05E-01-BAC Oyster Slip (Harbor) - Upper

Cause Location: This cause encompasses area adjacent to Brockenberry Bay within upper portion of the harbor. Located in the town of Oyster, east of Cheriton.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A

Cause Description: No data to assess within the assessment window. The status is retained.

The Recreation Use impairment is retained, data within assessment window is from 2005 with 0 exc/ 3 samples. of the instantaneous criteria for Enterococcus bacteria at DEQ (AQM) station @ 7-OSS000.37. Nested within Shellfish TMDL completed 6/19/2009.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D05E_OSS01A00 / Oyster Slip (Harbor) - Upper / Located in the town of Oyster, east of Cheriton. Adjacent to Brockenberry Bay. Upper portion of the harbor. DSS shellfish direct harvesting Restricted condemnation # 094-012 A (effective 2014-02-26).	4A	Enterococcus	2006	L	0.034

Oyster Slip (Harbor) - Upper

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.034		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05E-01-HG Oyster Slip (Harbor) - Upper

Cause Location: This causes encompasses the area adjacent to Brockenberry Bay within upper portion of the harbor. Located in the town of Oyster, east of Cheriton.

Cause City/County: Northampton County

Use(s): Fish Consumption

Causes(s)/VA Category: Mercury in Fish Tissue/5A

Cause Description: Fish Consumption is impaired based on Fish Tissue data collected 08-IM, FT_Met-Hg Sandbar Shark; 08-OE-Pb Oyster; 08 PCB Support at DEQ (AQM) station @ 7-OSS000.20.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D05E_OSS01A00 / Oyster Slip (Harbor) - Upper / Located in the town of Oyster, east of Cheriton. Adjacent to Brockenberry Bay. Upper portion of the harbor. DSS shellfish direct harvesting Restricted condemnation # 094-012 A (effective 2014-02-26).	5A	Mercury in Fish Tissue	2010	L	0.034

Oyster Slip (Harbor) - Upper

Fish Consumption	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Mercury in Fish Tissue - Total Impaired Size by Water Type:	0.034		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05E-02-SF Oyster Slip (Harbor) - Upper

Cause Location: Located in the town of Oyster, east of Cheriton. Adjacent to Brockenberry Bay. Upper portion of the harbor. DSS shellfish direct harvesting Restricted condemnation # 094-012 A (effective 2014-02-26).

Cause City/County: Northampton County

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: This impairment was listed in the TMDL extent and is therefore not a nested impairment. The use was delisted in the 2016 IR. # 094-12 A (effective 2014-02-26).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D05E_OSS01A00 / Oyster Slip (Harbor) - Upper / Located in the town of Oyster, east of Cheriton. Adjacent to Brockenberry Bay. Upper portion of the harbor. DSS shellfish direct harvesting Restricted condemnation # 094-012 A (effective 2014-02-26).	4A	Fecal Coliform	2020	L	0.034

Oyster Slip (Harbor) - Upper

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.034		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D05R-01-BAC** Taylor Creek

Cause Location: This cause encompasses area from Penn Central RR crossing downstream to impoundment 0.1 mi. downstream of station. Located northeast of Simpkins.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: Recreation Use is impaired based on E.coli data from Station 7-TAL000.80 with 4 exceedances/ 12 samples. The impaired status is given due to 2 or more STV hits in the same 90-day period with < 10 samples.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D05R_TAL01A02 / Taylor Creek / Located northeast of Simpkins. Segment from Penn Central RR crossing downstream to impoundment 0.1 mi. downstream of station.	5A	Escherichia coli (E. coli)	2002	L	1.26

Taylor Creek

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			1.26

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D05R-02-BAC** Holt Creek

Cause Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Martins Siding.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: Recreation use is impaired due to E. coli data at station @ 7-HLT002.08 (3 exceedances/ 24 samples). The impairment status is given due to 2 or more STV hits in the same 90-day period with < 10 samples.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D05R_HLT01A04 / Holt Creek / Located east of Martins Siding. Segment from headwaters downstream to start of tidal waters.	5A	Escherichia coli (E. coli)	2004	L	1.75

Holt Creek

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			1.75

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05R-03-BAC Holt Creek Unnamed Tributary

Cause Location: This cause encompasses the area from Penn Central RR crossing near headwaters downstream to confluence with Holt Creek. Located east of Martins Siding.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: No data to assess within the assessment window. The status is retained.

The Recreation Use impairment is retained based on Fecal Coliform data. Current E.coli data collected is 1 exc/ 1 sample. Previous (2006 IR) TMDL ID = VAT-D05R-03.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D05R_XDI01A04 / Holt Creek Unnamed Tributary / Located east of Martins Siding. Segment from Penn Central RR crossing near headwaters downstream to confluence with Holt Creek.	5A	Escherichia coli (E. coli)	2004	L	1.42

Holt Creek Unnamed Tributary

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			1.42

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D05R-03-BEN** **Holt Creek Unnamed Tributary**

Cause Location: This cause encompasses the area from Penn Central RR crossing near headwaters downstream to confluence with Holt Creek. Located east of Martins Siding.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: Benthic IM based on VCPMI [2020: S=15][2018: S=20.8 F=11.7] [2014: S=25.4] [2013: F=41.3] [2009_IM: S=8.6, F=48.4] and [2008: F=29.0]

Habitat is good at this site and there are no obvious point sources, so it is likely that non-point sources are responsible for impairment here. The scores at this site jump around a good bit with a tendency for higher scores in the fall indicating that seasonal effects are probably also being picked up by the metrics in addition to any anthropogenic effects

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D05R_XDI01A04 / Holt Creek Unnamed Tributary / Located east of Martins Siding. Segment from Penn Central RR crossing near headwaters downstream to confluence with Holt Creek.	5A	Benthic Macroinvertebrates Bioassessments	2012	L	1.42

Holt Creek Unnamed Tributary

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		1.42

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06E-01-DO Magothy Bay - Lower

Cause Location: This cause encompasses the area east of Skidmore Island.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: No new data to assess in the 2022 IR cycle.

The Aquatic Life use is impaired based on data from 2008 Assessment for the DO concentration exceeding the criteria for this parameter (2 exc/ 5 samples.). Now data from 01 and 02 drop out therefore 2 /5 violate. Can not delist DO.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06E_MAG01A04 / Magothy Bay - Lower / Located east of Skidmore Island. No DSS shellfish condemnation.	5A	Dissolved Oxygen	2004	L	0.037

Magothy Bay - Lower

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.037		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06E-02-PCB Raccoon Creek

Cause Location: This cause encompasses Raccoon Creek. The area southwest of Magothy Bay.

Cause City/County: Northampton County

Use(s): Fish Consumption

Causes(s)/VA Category: PCBs in Fish Tissue/5A

Cause Description: No new data to assess in the 2022 IR cycle.

The Fish Consumption Use is impaired based on Fish Tissue data collected for PCBs with an observed effect for arsenic. Station 7-RAC000.00 is impaired for PCBs in FT found in Bass, Trout and Blue Crab from 2008 and 2006.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06E_RAC01A08 / Raccoon Creek / South west of Magothy Bay. No DSS condemnation area.	5A	PCBs in Fish Tissue	2010	L	0.004

Raccoon Creek

Fish Consumption

PCBs in Fish Tissue - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.004		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D06R-01-DO** Mill Creek

Cause Location: This cause encompasses the area at the start of Mill Creek upstream of Penn central RR crossing and ends downstream of Rt 600 at the beginning of the impoundment upstream of tidal waters. Located north of Capeville.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4A

Cause Description: DO remains impaired in the 2022 IR cycle due to impaired data (7 exceedances/ 29 samples) collected @ Station 7-MCR002.00. The DO impairment is covered under the TMDL for DO in Mill Creek, Northampton County VA with EPA approval date of 6/24/2009 which establishes both Total Organic Carbon and Total Nitrogen. pH will be reviewed in 2020 with additional year of data to determine if a delist is possible. Current 2018 IR is based on 2014 data.

TMDL EPA approved 6/24/2009 for DO. Low DO is caused by high inflow of nitrogen and organic carbon. The high temperature, low re-aeration, decay of organic materials and nitrogen oxidation, and the high SOD due to accumulated deposition of organic matter, are the dominant causes of low DO (reference from TMDL).

1998 CD segment for DO (Attachment A, Category 1, Part 2) VAT-D06R-01.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06R_MCR01A00 / Mill Creek / Located north of Capeville. Segment begins at the start of Mill Creek upstream of Penn central RR crossing and ends downstream of Rt 600 at the beginning of the impoundment upstream of tidal waters.	4A	Dissolved Oxygen	1998	L	2.24

Mill Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:			2.24

Sources: Atmospheric Deposition; Crop Production (Crop Land or Dry Land); Groundwater Loadings; Manure Runoff; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Wastes from Pets; Waterfowl; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06R-02-BAC Narrow Channel Branch

Cause Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Bayview.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: No data to assess within the assessment window. The status is retained.

The Recreation Use is impaired based on the E.coli data collected at Station 7-NCB000.97 which had 3 exc/ 5 samples within the 2018 IR data window. The impairment is retained in the 2020 IR cycle; there is no data within the 2020 IR cycle to assess.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06R_NCB01A04 / Narrow Channel Branch / Located east of Bayview. Segment from headwaters downstream to start of tidal waters.	5A	Escherichia coli (E. coli)	2004	L	1.85

Narrow Channel Branch

Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			1.85

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D06R-02-BEN** **Narrow Channel Branch**

Cause Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Bayview.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: The Aquatic Life Use impairment is retained for 2020 Assessment. No new benthic data within the assessment window. The Aquatic Life Use is impaired due to impacts to the stream's benthic population. DEQ (Bio) monitoring determines impairment by benthic assessment ratings of SI (spring 2001) & MI (fall 2001).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06R_NCB01A04 / Narrow Channel Branch / Located east of Bayview. Segment from headwaters downstream to start of tidal waters.	5A	Benthic Macroinvertebrates Bioassessments	2004	L	1.85

Narrow Channel Branch

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:			1.85

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06R-02-DO Narrow Channel Branch

Cause Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Bayview.

Cause City/County: Northampton County

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: No data to assess within the assessment window. The status is retained.

The Aquatic Life Use is impaired based on 2011 and 2012 data for DO that exceed the WQS with 2 exc/ 6 samples. Additional monitoring is requested.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06R_NCB01A04 / Narrow Channel Branch / Located east of Bayview. Segment from headwaters downstream to start of tidal waters.	5A	Dissolved Oxygen	2014	L	1.85

Narrow Channel Branch

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:			1.85

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D06R-03-BAC** **Tommy's Ditch**

Cause Location: This cause encompasses the entirety of Tommy's Ditch west of Kiptopeke State Park.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: The Recreation Use is impaired based on E.coli criteria exceeded (5 viol / 11 obs) at DEQ station @ 7-TOM001.73.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06R_TOM01A08 / Tommy's Ditch / East of Kiptopeke State Park	5A	Escherichia coli (E. coli)	2008	L	1.45

Tommy's Ditch

Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			1.45

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D06R-04-BAC** Mill Creek

Cause Location: Located north of Capeville. Segment begins at the start of Mill Creek upstream of Penn central RR crossing and ends downstream of Rt 600 at the beginning of the impoundment upstream of tidal waters.

Cause City/County: Northampton County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: The Recreation Use is insufficient based on data collected at station 7-MCR002.00 with 2 exceedance/12 samples in the 2022 IR cycle. The insufficient status is given due to one STV exceedance in one or multiple 90-day periods but insufficient data to analyze geomean. This AU was impaired in the 2020 IR cycle. Recreation remains impaired.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D06R_MCR01A00 / Mill Creek / Located north of Capeville. Segment begins at the start of Mill Creek upstream of Penn central RR crossing and ends downstream of Rt 600 at the beginning of the impoundment upstream of tidal waters.	5A	Escherichia coli (E. coli)	2020	L	2.24

Mill Creek

Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			2.24

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-02-SF Lake Wesley - Upstream Branches

Cause Location: Described in VDH Notice and Description of Shellfish Direct Harvesting Condemnation # 073-074A (effective 2013-06-11).

Cause City/County: Virginia Beach

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting with DSS shellfish condemnation # 073-074A (effective 2013-06-11)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D07E_LAI01A06 / Lake Rudee - Upper / Lake Rudee, from end of Owl Creek downstream to approx. RM 0.4 (upstream of confluence of Lake Holly with Rudee Inlet canal). Portion of DSS shellfish condemnation # 073-074 A (effective 2013-06-11).	4A	Fecal Coliform	2006	L	0.093
VAT-D07E_LAI03A20 / Lake Rudee - Upper (northwest trib.) / Tributary of Lake Rudee between Terrace Ct and Caspian Ave	4A	Fecal Coliform	2006	L	0.007

Lake Wesley - Upstream Branches

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.099		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-04-BAC Owl Creek - Upper

Cause Location: This cause encompasses the Headwaters of Owl Creek downstream to point where creek widens.

Cause City/County: Virginia Beach

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/4A; Enterococcus/5A

Cause Description: Recreation Use impaired due to Enterococcus bacteria concentrations exceeding (2 violates / 11 obs.)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D07E_OWL01A02 / Owl Creek- Upper / Headwaters tributary to Lake Rudee, located west of Lake Christine. Segment from headwaters downstream to point where creek broadens. Portion of DSS shellfish direct harvesting condemnation # 073-074 A (effective 2013-06-11).	4A	Enterococcus	2002	L	0.006
VAT-D07E_OWL03A20 / Owl Creek- Upper Trib. / Headwaters tributary to Lake Rudee, located west of Lake Christine. Segment from headwaters upstream to the upper-middle portion. Portion of DSS shellfish direct harvesting condemnation # 073-074 A (effective 2013-06-11).	5A	Enterococcus	2002	L	0.001

Owl Creek - Upper

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.007		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Source Unknown; Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-04-DO Owl Creek - Upper

Cause Location: This cause encompasses the upper portion of Owl Creek a tributary to Lake Rudee, located west of Lake Christine.

Cause City/County: Virginia Beach

Use(s): Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/5A

Cause Description: The Aquatic Life Use is impaired due to dissolved oxygen concentrations at station 7-OWL000.77 and 7OWL-2-VAMSC with 2 violates / 6 obs. and 5 viol/ 9 obs below the criteria minimum (4.0 mg/l). This TMDL ID (VAT-D07E-05) is added for the 2006 IR.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D07E_OWL03A20 / Owl Creek- Upper Trib. / Headwaters tributary to Lake Rudee, located west of Lake Christine. Segment from headwaters upstream to the upper-middle portion. Portion of DSS shellfish direct harvesting condemnation # 073-074 A (effective 2013-06-11).	5A	Dissolved Oxygen	2006	L	0.001

Owl Creek - Upper

Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	0.001		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-04-SF Owl Creek - Upper and Lower

Cause Location: Described in VDH Notice and Description of Shellfish Direct Harvesting Restricted
 Condemnation # 073-074A (effective 2013-06-11).

Cause City/County: Virginia Beach

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfishing Use is not supporting with DSS shellfish Restricted condemnation # 073-074A
 (effective 2013-06-11).

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D07E_OWL01A02 / Owl Creek- Upper / Headwaters tributary to Lake Rudee, located west of Lake Christine. Segment from headwaters downstream to point where creek broadens. Portion of DSS shellfish direct harvesting condemnation # 073-074 A (effective 2013-06-11).	4A	Fecal Coliform	2006	L	0.006
VAT-D07E_OWL02A02 / Owl Creek - Lower / Headwaters tributary to Lake Rudee, located west of Lake Christine. Segment from mid-way point where creek broadens downstream to confluence with Lake Rudee. Portion of DSS shellfish direct harvesting Restricted condemnation # 073-074 A (effective 2013-06-11).	4A	Fecal Coliform	2006	L	0.019
VAT-D07E_OWL03A20 / Owl Creek- Upper Trib. / Headwaters tributary to Lake Rudee, located west of Lake Christine. Segment from headwaters upstream to the upper-middle portion. Portion of DSS shellfish direct harvesting condemnation # 073-074 A (effective 2013-06-11).	4A	Fecal Coliform	2006	L	0.001

Owl Creek - Upper and Lower

Shellfishing

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.026		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-10-SF Lake Wesley - Upstream Branches

Cause Location: Described in VDH Notice and Description of Shellfish Condemnation Number 073-074 A, 6/11/2013.

Cause City/County: Virginia Beach

Use(s): Shellfishing

Causes(s)/VA Category: Fecal Coliform/4A

Cause Description: The Shellfish Use is impaired based on DSS Condemnation # 073-074 A effective date 2013-06-11.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D07E_LAE01A06 / Lake Wesley - Upstream Branches / From start of both branches downstream to confluence with Rudee Inlet; western portions. Segment reflects status of station at mid-embayment. DSS shellfish condemnation # 073-074 A (effective 2013-06-11).	4A	Fecal Coliform	2006	L	0.018
VAT-D07E_LAE02A20 / Lake Wesley - Upstream Branches / From start of both branches downstream to confluence with Rudee Inlet; eastern portion. Segment reflects status of station at mid-embayment. DSS shellfish condemnation # 073-074 A (effective 2013-06-11).	4A	Fecal Coliform	2006	L	0.016
VAT-D07E_LAI02A06 / Lake Rudee - Lower (Rudee Inlet Canal) / Lower portion of Lake Rudee, including Rudee Inlet Canal. From RM 0.4 (upstream of confluence of Lake Holly with Rudee Inlet canal) downstream through Inlet canal to mouth. Portion of DSS shellfish harvesting condemnation # 073-074 (effective 2013-06-11).	4A	Fecal Coliform	2006	L	0.026

Lake Wesley - Upstream Branches

Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.06		

Sources: Agriculture; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-11-BAC Lake Wesley - Upstream Branches

Cause Location: From start of both branches downstream to confluence with Rudee Inlet; eastern portion. Segment reflects status of station at mid-embayment. DSS shellfish condemnation # 073-074 A (effective 2013-06-11).

Cause City/County: Virginia Beach

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/5A

Cause Description: No new data to assess in the 2022 IR cycle.

The Recreation Use is impaired due to Enterococci data collected @ Station 7LAE-7-VAMSC (2 exc/ 13 samples). This is an initial listing in the 2020 IR cycle. Split from VAT-D07E_LAE01A06 due to this impairment. Citizen monitoring data from Virginia Aquarium and Marine Science Center.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D07E_LAE02A20 / Lake Wesley - Upstream Branches / From start of both branches downstream to confluence with Rudee Inlet; eastern portion. Segment reflects status of station at mid-embayment. DSS shellfish condemnation # 073-074 A (effective 2013-06-11).	5A	Enterococcus	2020	L	0.016

Lake Wesley - Upstream Branches

Recreation

Enterococcus - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
0.016		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D07E-12-BAC** **Lake Rudee - Upper (northwest trib.)**

Cause Location: Tributary of Lake Rudee between Terrace Ct and Caspian Ave

Cause City/County: Virginia Beach

Use(s): Recreation

Causes(s)/VA Category: Enterococcus/5A

Cause Description: No new data in the 2022 IR cycle.

The Recreation Use is impaired due to data collected @ Station 7LAI-4-VAMSC (5 exc/ 27 samples) . This is a relisting from the 2018 delisting.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-D07E_LAI03A20 / Lake Rudee - Upper (northwest trib.) / Tributary of Lake Rudee between Terrace Ct and Caspian Ave	5A	Enterococcus	2020	L	0.007

Lake Rudee - Upper (northwest trib.)

Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.006		

Sources: Source Unknown

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **LYNPH-DO-BAY** Lynnhaven River and Broad Bay System CBP segment **LYNPH and Tributaries**

Cause Location: This cause encompasses the entirety of the Lynnhaven River CBP segment LYNPH and Tributaries. Tributary to south shore of Chesapeake Bay. CBP segment LYNPH.

Cause City/County: Virginia Beach

Use(s): Aquatic Life; Open-Water Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4A

Cause Description: The Open-Water Aquatic Life Use is impaired based on failure to meet the dissolved oxygen criteria for Open Water - Summer. EPA approved Chesapeake Bay TMDL 12/29/2010.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_BBY01A14 / Broad Bay / East of Lynnhaven River. Located adjacent to Broad Bay Colony area of VB. CBP segment LYNPH. BIBI segment LYNPHa. DSS (OPEN) shellfish direct harvesting condemnation # 071-095 (effective 20190215)	4A	Dissolved Oxygen	2006	L	1.213
VAT-C08E_BBY01B10 / Broad Bay - Upper, UTs W. Shore [Admin Cond] / East of Lynnhaven River. Located adjacent to Broad Bay Colony area. UTs along W. Shore of Broad Bay [Admin Cond]. CBP segment LYNPH. BIBI segment LYNPHa. DSS (Admin Cond) shellfish condemnation # 071-095 D, F, H (effective 20190215).	4A	Dissolved Oxygen	2006	L	0.039
VAT-C08E_CRY01A00 / Crystal Lake / Includes Rainey Gut. Located in North Linkhorn Park area in Virginia Beach. East of Lynnhaven River. CBP segment LYNPH. DSS ADMIN condemnation # 071-010 B (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.128
VAT-C08E_DEY01A00 / Dey Cove/Mill Dam Creek / Tributary on western shore of Broad Bay near Great Neck Area in VB. East of Lynnhaven River. CBP segment LYNPH BIBI segment LYNPHa. DSS condemnation # 071-095 E (effective 20190215).	4A	Dissolved Oxygen	2006	L	0.075
VAT-C08E_DEY02A18 / Dey Cove/Mill Dam Creek-Mouth / Located attached to west shore of Broad Bay Colony area of VB. East of Lynnhaven River. CBP segment LYNPH BIBI segment LYNPHa. DSS condemnation # 071-095 E (effective 20190215).	4A	Dissolved Oxygen	2006	L	0.020
VAT-C08E_EBL01A06 / Eastern Branch - Upper, Lynnhaven River / From end of London Br. Cr. (Rt 58 crossing) downstream to Smith Point. CBP segment LYNPH. BIBI segment LYNPHa. Portion of DSS ADMIN condemnation # 070-025 A (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.226

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_EBL01B10 / Eastern Branch - Lower Upper, Lynnhaven River / From Smith Point downstream to Sandy point. CBP segment LYNPH. BIBI segment LYNPHa. Portion of DSS condemnation # 070-025 A (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.263
VAT-C08E_EBL02A08 / Eastern Branch - Lower, Lynnhaven River / From Mapps Point to the eastern shore embayment near Forest Hills. CBP segment LYNPH. Portion of DSS condemnation # 070-025 A (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.385
VAT-C08E_LKN01A00 / Linkhorn Bay - Upper / South of Linkhorn Estates area of VB upstream to Laskin Rd (58). East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish ADMIN harvesting condemnation # 071-010 A (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.103
VAT-C08E_LKN01B14 / Linkhorn Bay - Upper / Located adjacent to Alexander Estates area of VB. East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa Restricted-condemn DSS shellfish direct harvesting condemnation # 071-010 A (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.061
VAT-C08E_LKN02A10 / Linkhorn Bay - Lower / Located adjacent to Linkhorn Estates area of VB upstream to Alanton at The Narrows. East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa. DSS OPEN shellfish direct harvesting area # 071-010 C3 (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.560
VAT-C08E_LKN02B10 / Linkhorn Bay - Coves [Admin Condem] / Embayments adjacent to LKN02A10. East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa. DSS [Admin Cond] shellfish direct harvesting condemnation # 071-010 (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.223
VAT-C08E_LKN03B20 / Linkhorn Bay - Upper / Southern tip of Linkhorn Bay, north of Rt. 264. CBP segment LYNPH. No DSS category.	4A	Dissolved Oxygen	2006	L	0.004
VAT-C08E_LNC01A00 / Little Neck Creek - Upper / Eastern shore tributary of Linkhorn Bay, near Laskin Road and south of Linkhorn Park. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting ADMIN condemnation # 071-227 A (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.078
VAT-C08E_LNC01B16 / Little Neck Creek-Lower / Eastern shore tributary of Linkhorn Bay, near Bay Colony. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting condemnation # 071-227 A (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.035

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_LNC02A12 / Little Neck Creek-Lower / Eastern shore tributary of Linkhorn Bay, near Bay Colony. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting Restricted-condemnation # 071-227 A (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.155
VAT-C08E_LNC02B12 / Little Neck Creek-Lower (DSS ADMIN) / Embayments adjacent to Little Neck Creek. Eastern shore tributary of Linkhorn Bay, near Bay Colony. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting ADMIN condemnation # 071-227 (effective 20200315).	4A	Dissolved Oxygen	2006	L	0.072
VAT-C08E_LOB01A00 / London Bridge Creek / Entirety of creek, from headwaters near Shipp's Corner downstream to Rt. 58 crossing. CBP segment LYNPH. BIBI segment LYNPHa. ADMIN DSS # 070-025 A (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.059
VAT-C08E_LON01A00 / Long Creek / Northern shore tributary of Broad Bay, near Bay Island area. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS (ADMIN) shellfish direct harvesting condemnation # 071-095 A,B,C, I (effective 20190215).	4A	Dissolved Oxygen	2006	L	0.316
VAT-C08E_LYN01A06 / Lynnhaven River & Bay - Mainstem / Tributary to south shore of Chesapeake Bay. Mainstem area near mouth. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting condemnation # 070-025 C1 Conditionally Approved (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.982
VAT-C08E_LYN01B10 / Lynnhaven River & Bay Coves [Admin Cond] / Embayments of LYN01A06 [DSS Admin Cond]. Tributary to south shore of Chesapeake Bay. CBP segment LYNPH. BIBI segment LYNPHa. DSS ADMIN shellfish harvesting condemnation # 070-025 (A-M) (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.557
VAT-C08E_LYN01C12 / Lynnhaven River & Bay - DSS Cond / Tributary to south shore of Chesapeake Bay. Mainstem area. Segments near Mouth of Pleasure House and Brocks Cove. CBP segment LYNPH. DSS shellfish conditional approval condemn # 070-025 A & M (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.198
VAT-C08E_THA01A02 / Thalia Creek, Thurston Branch & Buchanan Creek / Beginning of Thalia Creek (incl. Thurston Br & Buchanan Cr) from headwaters downstream to Western Br. Lynnhaven R. CBP segment LYNPH. BIBI segment LYNPHa. DSS ADMIN condemnation # 070-025 H (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.286

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_WES01A06 / Western Branch - Upper, Lynnhaven River / From the end of Thurston Branch downstream to Hebden Cove. CBP segment LYNPH. BIBI segment LYNPHa. Portion of ADMIN DSS shellfish direct harvesting condemnation #070-025 H (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.151
VAT-C08E_WES01B16 / Western Branch - Middle, Lynnhaven River / From Witch Duck Bay to Witchduck Point. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish ADMIN condemnation #070-025 H (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.174
VAT-C08E_WES02A06 / Western Branch - Middle, Lynnhaven River / From Bayville Cr to Thoroughgood Cove. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting condemnation #070-025 H (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.156
VAT-C08E_WES03A10 / Western Branch - Lower, Lynnhaven River / From Bayville Creek downstream to confluence with mainstem. CBP segment LYNPH. BIBI segment LYNPHa. DSS Conditionally Condemned shellfish condemnation #070-025 C1 (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.170
VAT-C08E_WNC01A00 / West Neck Creek (Upper) to London Bridge Creek / From Princess Anne Rd. crossing downstream to junction with London Bridge Cr. at Shipp's Corner area. Segment determined to drain to C08E (Lynnhaven River). CBP segment LYNPH. BIBI segment LYNPHa.	4A	Dissolved Oxygen	2006	L	0.084
VAT-C08E_XBO01A00 / Canal No. 2 / Man-Made tributary to London Bridge Creek. Entire length of Canal No. 2. Portion of CBP segment LYNPH.	4A	Dissolved Oxygen	2006	L	0.040
VAT-C08E_ZZZ01A00 / Unsegmented tidal tributaries in C08E-LYNPH / Tidal tributaries to Eastern and Western Branch Lynnhaven River. Portion of CBP segment LYNPH. BIBI segment LYNPHa. Portions of DSS shellfish ADMIN condemnation # 070-025 A & H (effective 20180206).	4A	Dissolved Oxygen	2006	L	0.959
VAT-C08E_ZZZ01B10 / Unsegmented tidal tributary to Lynnhaven R. & Linkhorn Bay / Unsegmented tidal tributaries to Lynnhaven R. & Linkhorn Bay. CBP segment LYNPH. No DSS category.	4A	Dissolved Oxygen	2006	L	0.206

Lynnhaven River and Broad Bay System CBP segment LYNPH and Tributaries

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
7.976		

Virginia Department of Environmental Quality

Appendix 4 - Fact Sheets for Impaired (Category 4 or 5) Waters in 2022

Lynnhaven River and Broad Bay System CBP segment LYNPH and Tributaries

Open-Water Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Dissolved Oxygen - Total Impaired Size by Water Type:	7.976		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Contaminated Sediments; Industrial Point Source Discharge; Industrial Thermal Discharges; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **LYNPH-SAV-BAY** **Lynnhaven River and Broad Bay System CBP segment LYNPH and Tributaries**

Cause Location: This cause encompasses the entirety of the Lynnhaven River CBP segment LYNPH and Tributaries. Tributary to south shore of Chesapeake Bay. CBP segment LYNPH.

Cause City/County: Virginia Beach

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: The polyhaline Lynnhaven River did not meet the Chesapeake Bay Shallow Water Subuse's submerged aquatic vegetation acreage criterion. The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010, this segment is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_BBY01A14 / Broad Bay / East of Lynnhaven River. Located adjacent to Broad Bay Colony area of VB. CBP segment LYNPH. BIBI segment LYNPHa. DSS (OPEN) shellfish direct harvesting condemnation # 071-095 (effective 20190215)	4A	Aquatic Plants (Macrophytes)	2006	L	1.213
VAT-C08E_BBY01B10 / Broad Bay - Upper, UTs W. Shore [Admin Cond] / East of Lynnhaven River. Located adjacent to Broad Bay Colony area. UTs along W. Shore of Broad Bay [Admin Cond]. CBP segment LYNPH. BIBI segment LYNPHa. DSS (Admin Cond) shellfish condemnation # 071-095 D, F, H (effective 20190215).	4A	Aquatic Plants (Macrophytes)	2010	L	0.039
VAT-C08E_CRY01A00 / Crystal Lake / Includes Rainey Gut. Located in North Linkhorn Park area in Virginia Beach. East of Lynnhaven River. CBP segment LYNPH. DSS ADMIN condemnation # 071-010 B (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2006	L	0.128
VAT-C08E_DEY01A00 / Dey Cove/Mill Dam Creek / Tributary on western shore of Broad Bay near Great Neck Area in VB. East of Lynnhaven River. CBP segment LYNPH BIBI segment LYNPHa. DSS condemnation # 071-095 E (effective 20190215).	4A	Aquatic Plants (Macrophytes)	2006	L	0.075
VAT-C08E_DEY02A18 / Dey Cove/Mill Dam Creek-Mouth / Located attached to west shore of Broad Bay Colony area of VB. East of Lynnhaven River. CBP segment LYNPH BIBI segment LYNPHa. DSS condemnation # 071-095 E (effective 20190215).	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAT-C08E_EBL01A06 / Eastern Branch - Upper, Lynnhaven River / From end of London Br. Cr. (Rt 58 crossing) downstream to Smith Point. CBP segment LYNPH. BIBI segment LYNPHa. Portion of DSS ADMIN condemnation # 070-025 A (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.226

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_EBL01B10 / Eastern Branch - Lower Upper, Lynnhaven River / From Smith Point downstream to Sandy point. CBP segment LYNPH. BIBI segment LYNPHa. Portion of DSS condemnation # 070-025 A (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2010	L	0.263
VAT-C08E_EBL02A08 / Eastern Branch - Lower, Lynnhaven River / From Mapps Point to the eastern shore embayment near Forest Hills. CBP segment LYNPH. Portion of DSS condemnation # 070-025 A (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2008	L	0.385
VAT-C08E_LKN01A00 / Linkhorn Bay - Upper / South of Linkhorn Estates area of VB upstream to Laskin Rd (58). East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish ADMIN harvesting condemnation # 071-010 A (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2006	L	0.103
VAT-C08E_LKN01B14 / Linkhorn Bay - Upper / Located adjacent to Alexander Estates area of VB. East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa Restricted-condemn DSS shellfish direct harvesting condemnation # 071-010 A (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2006	L	0.061
VAT-C08E_LKN02A10 / Linkhorn Bay - Lower / Located adjacent to Linkhorn Estates area of VB upstream to Alanton at The Narrows. East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa. DSS OPEN shellfish direct harvesting area # 071-010 C3 (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2010	L	0.560
VAT-C08E_LKN02B10 / Linkhorn Bay - Coves [Admin Condem] / Embayments adjacent to LKN02A10. East of Lynnhaven River. CBP segment LYNPH. BIBI segment LYNPHa. DSS [Admin Cond] shellfish direct harvesting condemnation # 071-010 (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2010	L	0.223
VAT-C08E_LKN03B20 / Linkhorn Bay - Upper / Southern tip of Linkhorn Bay, north of Rt. 264. CBP segment LYNPH. No DSS category.	4A	Aquatic Plants (Macrophytes)	2010	L	0.004
VAT-C08E_LNC01A00 / Little Neck Creek - Upper / Eastern shore tributary of Linkhorn Bay, near Laskin Road and south of Linkhorn Park. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting ADMIN condemnation # 071-227 A (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2006	L	0.078
VAT-C08E_LNC01B16 / Little Neck Creek-Lower / Eastern shore tributary of Linkhorn Bay, near Bay Colony. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting condemnation # 071-227 A (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2014	L	0.035

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_LNC02A12 / Little Neck Creek-Lower / Eastern shore tributary of Linkhorn Bay, near Bay Colony. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting Restricted-condemnation # 071-227 A (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2014	L	0.155
VAT-C08E_LNC02B12 / Little Neck Creek-Lower (DSS ADMIN) / Embayments adjacent to Little Neck Creek. Eastern shore tributary of Linkhorn Bay, near Bay Colony. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting ADMIN condemnation # 071-227 (effective 20200315).	4A	Aquatic Plants (Macrophytes)	2014	L	0.072
VAT-C08E_LOB01A00 / London Bridge Creek / Entirety of creek, from headwaters near Shipp's Corner downstream to Rt. 58 crossing. CBP segment LYNPH. BIBI segment LYNPHa. ADMIN DSS # 070-025 A (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.059
VAT-C08E_LON01A00 / Long Creek / Northern shore tributary of Broad Bay, near Bay Island area. Portion of CBP segment LYNPH. BIBI segment LYNPHa. DSS (ADMIN) shellfish direct harvesting condemnation # 071-095 A,B,C, I (effective 20190215).	4A	Aquatic Plants (Macrophytes)	2006	L	0.316
VAT-C08E_LYN01A06 / Lynnhaven River & Bay - Mainstem / Tributary to south shore of Chesapeake Bay. Mainstem area near mouth. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting condemnation # 070-025 C1 Conditionally Approved (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.982
VAT-C08E_LYN01B10 / Lynnhaven River & Bay Coves [Admin Cond] / Embayments of LYN01A06 [DSS Admin Cond]. Tributary to south shore of Chesapeake Bay. CBP segment LYNPH. BIBI segment LYNPHa. DSS ADMIN shellfish harvesting condemnation # 070-025 (A-M) (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2010	L	0.557
VAT-C08E_LYN01C12 / Lynnhaven River & Bay - DSS Cond / Tributary to south shore of Chesapeake Bay. Mainstem area. Segments near Mouth of Pleasure House and Brocks Cove. CBP segment LYNPH. DSS shellfish conditional approval condemn # 070-025 A & M (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2014	L	0.198
VAT-C08E_THA01A02 / Thalia Creek, Thurston Branch & Buchanan Creek / Beginning of Thalia Creek (incl. Thurston Br & Buchanan Cr) from headwaters downstream to Western Br. Lynnhaven R. CBP segment LYNPH. BIBI segment LYNPHa. DSS ADMIN condemnation # 070-025 H (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.286

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C08E_WES01A06 / Western Branch - Upper, Lynnhaven River / From the end of Thurston Branch downstream to Hebden Cove. CBP segment LYNPH. BIBI segment LYNPHa. Portion of ADMIN DSS shellfish direct harvesting condemnation #070-025 H (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.151
VAT-C08E_WES01B16 / Western Branch - Middle, Lynnhaven River / From Witch Duck Bay to Witchduck Point. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish ADMIN condemnation #070-025 H (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.174
VAT-C08E_WES02A06 / Western Branch - Middle, Lynnhaven River / From Bayville Cr to Thoroughgood Cove. CBP segment LYNPH. BIBI segment LYNPHa. DSS shellfish direct harvesting condemnation #070-025 H (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.156
VAT-C08E_WES03A10 / Western Branch - Lower, Lynnhaven River / From Bayville Creek downstream to confluence with mainstem. CBP segment LYNPH. BIBI segment LYNPHa. DSS Conditionally Condemned shellfish condemnation #070-025 C1 (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2010	L	0.170
VAT-C08E_WNC01A00 / West Neck Creek (Upper) to London Bridge Creek / From Princess Anne Rd. crossing downstream to junction with London Bridge Cr. at Shipp's Corner area. Segment determined to drain to C08E (Lynnhaven River). CBP segment LYNPH. BIBI segment LYNPHa.	4A	Aquatic Plants (Macrophytes)	2006	L	0.084
VAT-C08E_XBO01A00 / Canal No. 2 / Man-Made tributary to London Bridge Creek. Entire length of Canal No. 2. Portion of CBP segment LYNPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.040
VAT-C08E_ZZZ01A00 / Unsegmented tidal tributaries in C08E-LYNPH / Tidal tributaries to Eastern and Western Branch Lynnhaven River. Portion of CBP segment LYNPH. BIBI segment LYNPHa. Portions of DSS shellfish ADMIN condemnation # 070-025 A & H (effective 20180206).	4A	Aquatic Plants (Macrophytes)	2006	L	0.959
VAT-C08E_ZZZ01B10 / Unsegmented tidal tributary to Lynnhaven R. & Linkhorn Bay / Unsegmented tidal tributaries to Lynnhaven R. & Linkhorn Bay. CBP segment LYNPH. No DSS category.	4A	Aquatic Plants (Macrophytes)	2010	L	0.206

Lynnhaven River and Broad Bay System CBP segment LYNPH and Tributaries

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
7.976		

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Lynnhaven River and Broad Bay System CBP segment LYNPH and Tributaries

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shallow-Water Submerged Aquatic Vegetation			
Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:	7.976		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Contaminated Sediments; Industrial Point Source Discharge; Industrial Thermal Discharges; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **MOBPH-DO-BAY** Chesapeake Bay segment MOBPH

Cause Location: This cause encompasses the complete CBP segment MOBPH.

Cause City/County: Gloucester County; Hampton; Mathews County; Poquoson City; York County

Use(s): Aquatic Life; Open-Water Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4A

Cause Description: The 30-day dissolved oxygen criteria for open water use is failing for the 2022 assessment. There are insufficient data to assess remaining shorter-term dissolved oxygen criteria for this use. All Open Water criteria must be assessed until segment can be delisted for DO.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-MOB / Chesapeake Bay - CBP Segment MOBPH / This assessment unit is the mainstem Chesapeake Bay and Mobjack Bay portions of Chesapeake Bay Program segment MOBPH, located off the mouth of the York River including Mobjack Bay. HUC: 02080101.	4A	Dissolved Oxygen	2006	L	92.951
VAP-C04E_BEV01A08 / Belleville Creek / Described in VDH Shellfish Condemnation 042-157S162, 7/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.053
VAP-C04E_BKA01A98 / Back Creek / Described in VDH condemnation notice 042-157C, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.056
VAP-C04E_BKA01C20 / Back Creek / Portion of VDH condemnation notice 157C, 6/3/1997 not condemned on 7/15/2020 (seasonally condemned). Merged in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.029
VAP-C04E_BLW01A98 / Blackwater Creek / Described in the condemnation notice 042-131A, 6/3/1997. MOBPH	4A	Dissolved Oxygen	2020	L	0.101
VAP-C04E_BLW02A22 / Blackwater Creek / Portion of VDH-DSS Condemnation 042-131S161, 7/15/2020 not included in 131A, 6/3/1997. MOBPH	4A	Dissolved Oxygen	2020	L	0.008
VAP-C04E_BUR01A00 / Burke Mill Stream / From extent of tide to North River MOBPH	4A	Dissolved Oxygen	2020	L	0.025
VAP-C04E_DAV01A98 / Davis Creek / Described in VDH-DSS condemnation notice 042-131S22, 7/15/2020. Merged and expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2006	L	0.072

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_DVS01A98 / Davis Creek / Described in VDH-DSS condemnation notice 85, 9/22/1997. Merged in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.016
VAP-C04E_DVS01B08 / Davis Creek / Described in the condemnation notice 040-085M2, 9/21/2010. MOBPH	4A	Dissolved Oxygen	2020	L	0.011
VAP-C04E_DVS03A12 / Davis Creek / Described in VDH-DSS condemnation 040-085A, 9/24/2018. MOBPH	4A	Dissolved Oxygen	2020	L	0.013
VAP-C04E_ELM01A98 / Elmington Creek / Described in the condemnation notice 157B, 6/3/1997. MOBPH	4A	Dissolved Oxygen	2020	L	0.023
VAP-C04E_ELM01B08 / Elmington Creek / Portion of VDH condemnation notice 042-157D, 7/15/2020 not included in 157B, 6/3/1997. MOBPH	4A	Dissolved Oxygen	2020	L	0.009
VAP-C04E_EST01A98 / East River / Described in the condemnation notice 92, 1/3/1995. MOBPH	4A	Dissolved Oxygen	2020	L	0.198
VAP-C04E_EST01B10 / East River / Portion of condemnation notice 041-092A, 10/15/2020 open in 92, 1/3/1995. Size increased in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.072
VAP-C04E_EST01D10 / East River, UT / Described in the condemnation notice 041-092S43, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.023
VAP-C04E_EST02A00 / East River / East River from SFC 92 to mouth, not otherwise segmented. MOBPH	4A	Dissolved Oxygen	2020	L	2.473
VAP-C04E_EST02B20 / East River, UT / Described in VDH-DSS condemnation 041-092C, 10/15/2020. Size reduced in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.013
VAP-C04E_EST03A06 / East River, UT / Described in VDH-DSS SFC 041-212M1, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.016
VAP-C04E_EST04A02 / East River, UT / Described in VDH-DSS Condemnation Notice 041-212S197, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.026
VAP-C04E_EST05A06 / East River, UT (aka Mill Creek) / Described in VDH-DSS SFC 041-212S198, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.026

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EST06A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212G, 10/25/2005. MOBPH	4A	Dissolved Oxygen	2020	L	0.020
VAP-C04E_EST07A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212C, 9/30/2016. MOBPH	4A	Dissolved Oxygen	2020	L	0.014
VAP-C04E_EST08A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212S46, 9/24/2018. MOBPH	4A	Dissolved Oxygen	2020	L	0.004
VAP-C04E_EST09A22 / East River, UT / Described in VDH-DSS Condemnation 041-092S42, 10/15/2020 MOBPH	4A	Dissolved Oxygen	2020	L	0.015
VAP-C04E_GRE01A08 / Greenmansion Cove / Described in VDH-DSS condemnation notice 042-131M1, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.054
VAP-C04E_MIS01A04 / Miles Creek / Described in VDH Condemnation Notice 041-212B, 10/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.039
VAP-C04E_NOR01A02 / North River / Described in VDH-DSS condemnation notice 042-157A, 7/15/2020, excluding tidal Burke Mill Stream. Split in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.250
VAP-C04E_NOR01B08 / North River / Portion of condemnation notice 042-157S24, 7/15/2020 not included on the 6/3/1997 condemnation. Size expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.364
VAP-C04E_NOR01C22 / North River / Portion of VDH-DSS condemnation 042-057S24, 7/15/2020 closed in condemnation 157A, 6/3/1997. Split in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.067
VAP-C04E_NOR02A02 / North River / North River and tribs from SFC 157 to Mobjack Bay, except as otherwise segmented. MOBPH	4A	Dissolved Oxygen	2020	L	5.399
VAP-C04E_NOR03A20 / North River, UT / Described in VDH-DSS condemnation 042-157B, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.021
VAP-C04E_NOR04A22 / North River, UT / Described in VDH-DSS Condemnation 042-157S159, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.010

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_OAK01A08 / Oakland Creek / Described in VDH-DSS condemnation notice 042-131S160, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.030
VAP-C04E_PEP01A06 / Pepper Creek / As described in the condemnation notice 040-085B, 9/26/2006. MOBPH	4A	Dissolved Oxygen	2020	L	0.031
VAP-C04E_PUT01A98 / Put In Creek / Portion of VDH-DSS condemnation notice 041-005A, 10/15/2019 included in 5A, 6/5/1996. MOBPH	4A	Dissolved Oxygen	2020	L	0.077
VAP-C04E_PUT01C10 / Put In Creek / Portion of condemnation notice 5A, 6/5/1996 open in 041-005, 10/15/2019. Shortened in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.005
VAP-C04E_PUT01D16 / Put In Creek / Described in condemnation notice 041-005B, 10/15/2019. MOBPH	4A	Dissolved Oxygen	2020	L	0.005
VAP-C04E_PUT01E20 / Put In Creek / Described in VDH-DSS condemnation notice 041-005S44, 10/15/2019. Expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.044
VAP-C04E_PUT02A98 / Put In Creek / Described in the condemnation notice 5B, 6/5/1996. MOBPH	4A	Dissolved Oxygen	2020	L	0.021
VAP-C04E_RAN01A08 / Raines Creek / Described in VDH Shellfish Condemnation 041-212I, 10/25/2005. MOBPH	4A	Dissolved Oxygen	2020	L	0.039
VAP-C04E_RAY01A12 / Raymond Creek / Described in VDH-DSS condemnation 042-131B, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.026
VAP-C04E_SLO01A08 / Sloop Creek / Described in VDH-DSS Condemnation 040-085A, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.028
VAP-C04E_TAB01A08 / Tabbs Creek / Described in VDH Shellfish Condemnation 041-212S166, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.034
VAP-C04E_THO01A08 / Thomas Creek / Described in VDH Shellfish Condemnation 041-212B, 9/25/2014. MOBPH	4A	Dissolved Oxygen	2020	L	0.014

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_TOD01A20 / Toddsbury Creek / Described in VDH-DSS condemnation 042-157E, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.020
VAP-C04E_WON01A08 / Weston Creek / Described in VDH Shellfish Condemnation 041-212A, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.025
VAP-C04E_WOO01A10 / Woodas Creek / Described in VDH-DSS condemnation notice 041-092B, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.029
VAP-C04E_WOO02A20 / Woodas Creek / Described in VDH-DSS condemnation 041-09S45, 10/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.021
VAP-C04E_WTS01A08 / Whites Creek / Described in VDH Shellfish Condemnation 041-212E, 10/25/2005. MOBPH	4A	Dissolved Oxygen	2020	L	0.018
VAP-C04E_XFA03A14 / XFA - North River, UT / Described in VDH-DSS condemnation 042-131A, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.020
VAP-C04E_ZZZ03A06 / Unsegmented estuaries in C04 / Unsegmented portion within MOBPH	4A	Dissolved Oxygen	2020	L	0.428
VAP-C05E_FOX01A08 / Fox Mill Run / Described in VDH condemnation notice 96B, 8/12/1996. MOBPH	4A	Dissolved Oxygen	2020	L	0.085
VAP-C05E_OLD01A12 / Oldhouse Creek / Tidal limit to mouth at Ware River MOBPH	4A	Dissolved Oxygen	2020	L	0.102
VAP-C05E_WAR01A02 / Ware River / Described in the condemnation notice 096A, 8/12/1996. Tidal extent adjusted in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.270
VAP-C05E_WAR01B08 / Ware River / Portion of VDH condemnation notice 043-096A, 7/15/2020 not included in condemnation 96A and 96B, 8/12/1996. Expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.224
VAP-C05E_WAR02A02 / Ware River / Ware River downstream of SFC 096. MOBPH	4A	Dissolved Oxygen	2020	L	6.309
VAP-C05E_WAR02B18 / Ware River / Described in VDH-DSS condemnation 043-096CS188, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.010

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_WAR02C20 / Ware River / Described in VDH-DSS condemnation 043-096S26, 7/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.316
VAP-C05E_WIL01A98 / Wilson Creek / Described in the condemnation notice 106, 8/12/1996. MOBPH	4A	Dissolved Oxygen	2020	L	0.033
VAP-C05E_WIL01B08 / Wilson Creek / Portion of VDH condemnation notice 043-096B, 7/15/2020 not included in condemnation notice 106, 8/12/1996. MOBPH	4A	Dissolved Oxygen	2020	L	0.142
VAP-C05E_WIL02A22 / Wilson Creek / Described in VDH-DSS Condemnation 043-096S25, 7/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.137
VAP-C05E_XDJ01A08 / XDJ - Wilson Creek, UT / Tidal limit to mouth at Wilson Creek. MOBPH	4A	Dissolved Oxygen	2020	L	0.010
VAP-C05E_ZZZ01A00 / Unsegmented estuaries in C05 / Unsegmented portion of the watershed. MOBPH	4A	Dissolved Oxygen	2020	L	0.116
VAP-C06E_BLV01A20 / Blevins Creek / Described in VDH-DSS condemnation 045-125A, 12/15/2020. Size reduced slightly in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.049
VAP-C06E_BRB01A08 / Browns Bay / Described in VDH Shellfish Condemnation 125B, 12/31/1996. MOBPH	4A	Dissolved Oxygen	2020	L	0.021
VAP-C06E_BRB01B12 / Browns Bay / Portion of VDH Shellfish Condemnation 045-125M1, 12/15/2020 not included in 125B, 12/31/1996. MOBPH	4A	Dissolved Oxygen	2020	L	0.024
VAP-C06E_FSC01A98 / Free School Creek / Described in VDH Shellfish Condemnation 044-093A, 6/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.039
VAP-C06E_FSC01B12 / Free School Creek / Portion of TMDL study area open for harvest on 044-093, 6/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.027
VAP-C06E_HEY01A98 / Heywood Creek / Described in the condemnation notice 044-054B, 6/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.106
VAP-C06E_HEY01B10 / Heywood Creek / Portion of condemnation notice 101, 4/1/1997 open in condemnation 044-054, 6/15/2020. Shortened in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.060

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_MNC01A98 / Monday Creek / Portion of VDH-DSS condemnation notice 25A, 12/31/1996 open on 12/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.030
VAP-C06E_MNC01B18 / Monday Creek / Described in VDH-DSS condemnation notice 045-125A, 12/12/2017. Tidal limit corrected in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.064
VAP-C06E_ROW01A06 / Rowes Creek / Described in VDH-DSS Shellfish Condemnation 044-054M2, 6/15/2020. Shortened in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.041
VAP-C06E_SEN01A02 / Northwest Branch Severn River / Described in condemnation notice 044-093B, 6/15/2020, excluding tributary XEE. MOBPH	4A	Dissolved Oxygen	2020	L	0.127
VAP-C06E_SEN01B16 / Northwest Branch Severn River, UT / Described in VDH-DSS condemnation notice 044-093D, 5/30/2018. MOBPH	4A	Dissolved Oxygen	2020	L	0.034
VAP-C06E_SEN01C10 / Northwest Branch Severn River / Portion of condemnation notice 93A, 4/1/1997 open on 044-093, 6/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.167
VAP-C06E_SEN02A06 / Northwest Branch Severn River / Northwest Branch Severn Creek not otherwise segmented Segment adjusted in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.427
VAP-C06E_SES01A00 / Southwest Branch Severn River / Mainstem MOBPH	4A	Dissolved Oxygen	2020	L	0.635
VAP-C06E_SEV02A00 / Severn River / End of NW Branch to mouth, unless otherwise segmented. MOBPH	4A	Dissolved Oxygen	2020	L	3.258
VAP-C06E_STR01A08 / Sterling Creek / Described in VDH Shellfish Condemnation 044-093E, 4/2/2014. MOBPH	4A	Dissolved Oxygen	2020	L	0.021
VAP-C06E_THC01A98 / Thorntons Creek / Described in the condemnation notice 044-054A, 6/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.063
VAP-C06E_THC01B10 / Thorntons Creek / Portion of condemnation notice 054, 4/1/1997 open in condemnation 044-054, 6/15/2020. MOBPH	4A	Dissolved Oxygen	2020	L	0.016

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_VGH01A98 / Vaughans Creek / Described in the condemnation notice 93B, 4/1/1997. Merged in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.121
VAP-C06E_VGH02A22 / Vaughans Creek / Portion of VDH-DSS Condemnation 044-093C, 6/15/2020 not included in 93B, 4/4/1997 MOBPH	4A	Dissolved Oxygen	2020	L	0.015
VAP-C06E_WET01A06 / Willetts Creek / Described in VDH Shellfish Condemnation 044-054M1, 6/15/2020. MOBPH	4A	Dissolved Oxygen	2010	L	0.033
VAP-C06E_WET01B08 / Willetts Creek / Described in VDH Condemnation 044-054C, 2/15/2006. MOBPH	4A	Dissolved Oxygen	2020	L	0.128
VAP-C06E_WTT01A08 / Whitaker Creek / Described in VDH-DSS Condemnation 044-093D, 6/15/2020 Size reduced in the 2022 cycle. MOBPH	4A	Dissolved Oxygen	2020	L	0.037
VAP-C06E_XEE01A10 / XEE - Northwest Branch Severn River, UT / Tidal limit to mouth at NW Branch Severn River MOBPH	4A	Dissolved Oxygen	2020	L	0.003
VAP-C06E_ZZZ01A00 / Unsegmented estuaries in C06 / Unsegmented portion of the watershed. MOBPH	4A	Dissolved Oxygen	2020	L	1.358
VAT-C07E_BAK01A00 / Mainstem Back River / From junction of Northwest and Southwest Branches downstream to mouth of Back River. Portion of CBP Segment MOBPH. DSS Condemnation 054-215 OPEN (20181018) and 054-021 (20151102) shellfish condemnations.	4A	Dissolved Oxygen	2020	L	3.340
VAT-C07E_BAK01B08 / Mainstem Back River-South Shore at Mouth Wallace Cr. / Portion of mainstem along south shore between Windmill Pt. and Grunland Pt. CBP Segment MOBPH. DSS shellfish condemnation # 054-215 M1 (Seasonal)(effective 20201115).	4A	Dissolved Oxygen	2020	L	0.091
VAT-C07E_BAK02A14 / Back Creek - Inlet near Dandy Point [TMDL] / Tributary to south shore Back River (incl area in Back R), east of Harris R & adjacent to Inlet #2. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-215 B, 20181018.	4A	Dissolved Oxygen	2020	L	0.034

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BCK01A00 / Back Creek - Upper / Back Creek (S of York R mouth) tributary to the Thorofare and Chesapeake Bay. From end of tidal waters downstream to point upstream of Dandy (RM 1.6). CBP Segment MOBPH. DSS shellfish condemnation # 053-151 A &M1 (effective 20190515).	4A	Dissolved Oxygen	2020	L	0.281
VAT-C07E_BCK02A06 / Back Creek - Middle (DSS-marina area) / Back Creek (S of York R mouth) is a tributary to The Thorofare and Chesapeake Bay. CBP Segment MOBPH. Area within DSS shellfish condemnation # 053-151 M1, around marina area (effective 20180425).	4A	Dissolved Oxygen	2020	L	0.078
VAT-C07E_BCK03A06 / Back Creek - Lower / Back Creek (S of York R mouth) is a tributary to The Thorofare and Chesapeake Bay. CBP Segment MOBPH. From upstream of Dandy (RM 1.6) downstream to mouth (RM 0.0). DSS (OPEN) shellfish condemnation # 053-151 (effective 20190515).	4A	Dissolved Oxygen	2020	L	0.405
VAT-C07E_BEN01A06 / Bennett Creek - Upper (DSS_06-IR) / Bennett Creek upstream portion (S of Poquoson R mouth) tributary to Poquoson River. From end of tidal waters downstream 0.1 mi. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 053-222 E (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.039
VAT-C07E_BEN02A08 / Bennet Creek - Lower Middle / South shore tributary to Poquoson R, in area of Griffins Beach. East of Roberts Cr. and north of White House Cove. CBP Segment MOBPH. DSS (OPEN, Seasonal, and Conditionally Approved) Shellfish condemnation # 053-222 M1 and S147 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.209
VAT-C07E_BEN03A16 / Bennett Creek-Mouth / Mouth of Bennett Creek. CBP Segment MOBPH. No DSS direct shellfish harvesting condemnation.	4A	Dissolved Oxygen	2020	L	0.366
VAT-C07E_BRK01A06 / Brick Kiln Creek / From 0.3 mi. downstream of Big Bethel Res. dam (approx. RM 5.0, end of tidal waters north of Ebenezer Church) downstream to confluence with Northwest Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 A (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.086
VAT-C07E_BTC01A08 / Bay Tree Creek / Trib to Bay, S of The Thorofare & N of mouth of Poquoson R. @ Bay Tree Point. CBP Segment MOBPH. DSS Shellfish condemnation # 053-221 B (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.076

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BTC02A18 / Bay Tree Creek- Mouth / Trib to Bay, S of The Thorofare & N of mouth of Poquoson R. @ Bay Tree Point. CBP Segment MOBPH. DSS (OPEN) Shellfish condemnation # 053-221 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.050
VAT-C07E_BTH01A08 / Boathouse Creek / Boathouse Creek (N of Poquoson R mouth) tributary to Chisman Creek. CBP Segment MOBPH. DSS condemnation # 053-221 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.042
VAT-C07E_BTH01B22 / Chisman Creek-Lower North Shore (Marina) / Downstream section of Boathouse Creek, from Anchor Drive to mouth. CBP Segment MOBPH. DSS Conditionally Approved S141 condemnation # 053-221 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.030
VAT-C07E_CAB01A08 / Cabin Creek / Cabin Creek (N of Poquoson R mouth) tributary to Chisman Creek. CBP Segment MOBPH. DSS shellfish condemnation # 053-221 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.082
VAT-C07E_CCR01A06 / Cedar & Topping Creeks / Located near City of Poquoson. Cedar & Topping Creeks are tribs to the north shore of the Northwest Branch of Back River. Portion of DSS condemnation # 054-021 A (less NW Br Back R./Brick Kiln Cr. portion) effective 20201115. CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.109
VAT-C07E_CHS01A06 / Chisman Creek-Upper / From end of tidal waters (upper 1/3 of creek), downstream to area of Evergreen Shores (approx. RM 0.9). CBP Segment MOBPH. DSS condemnation # 053-221A & seasonal M2 (effective 20180425).	4A	Dissolved Oxygen	2020	L	0.408
VAT-C07E_CHS02A06 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Spivey Road to mouth. CBP Segment MOBPH. DSS (OPEN) condemnation # 053-221 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.520
VAT-C07E_CHS02B22 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Seaford Shores to north side of water near Spivey Rd. CBP Segment MOBPH. DSS Seasonally Restricted and Conditionally Approved condemnation # 053-221 M1 & S140 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.005
VAT-C07E_CHS02C22 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Goose Creek to Seaford Shores area. CBP Segment MOBPH. DSS Conditionally Approved condemnation # 053-221 S140 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.005

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_CHS03A20 / Chisman Creek - Lower / First inlet on the right coming into the mouth of the Chisman. CBP Segment MOBPH. DSS Restricted-condemnation # 053-221 & M1(effective 20180425).	4A	Dissolved Oxygen	2020	L	0.006
VAT-C07E_EAS01A06 / Easton Cove / Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. DSS Conditionally approved shellfish condemnation # 053-222 S147 (effective 20200615). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.057
VAT-C07E_FLY01A06 / Floyds Bay- Upper / Upper Portion of Floyds Bay. Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. Portion of DSS shellfish condemnation # 053-222 D (effective 20200615). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.042
VAT-C07E_FLY02A16 / Floyds Bay- mouth / Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. Portion of DSS shellfish condemnation # 053-222 D (effective 20180425). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.010
VAT-C07E_FRT01A06 / Front Cove - Upper / North shore trib. to mainstem Back R. Adjacent to Messick Point. DSS shellfish condemnation # 054-021 C (effective 20201115). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.042
VAT-C07E_FRT02A08 / Front Cove - Lower / North shore trib. to mainstem Back R. Adjacent to Messick Point. DSS shellfish Seasonal condemnation # 054-021 M1 (effective 20181018). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.036
VAT-C07E_GLD01A10 / Grunland Creek - Mouth / South shore trib. to mainstem Back R. Adjacent to Grandview area. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.053
VAT-C07E_GLD02A18 / Grunland Creek - Back River / South shore trib. to mainstem Back R. Adjacent to Grunland Point. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 C (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.049
VAT-C07E_GOO01A14 / Goose Creek- Upper / From end of tidal waters to approx. River mile 0.27. DSS Shellfish condemnation # 053-221 C (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.065
VAT-C07E_GOO02A14 / Goose Creek- Lower / From Rivermile 0.27 to mouth. CBP Segment MOBPH. DSS Restricted-condemnation # 053-221 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.036

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_HAR01A06 / Harris River - Upper / South shore trib. to mainstem Back R. Adjacent to Fox Hill area. DSS shellfish condemnation # 054-215 A (effective 20201115). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.198
VAT-C07E_HAR02A10 / Harris River - Mouth / South shore trib. to mainstem Back R. East shore area at mouth. Adjacent to Fox Hill area. CBP Segment MOBPH. DSS (OPEN) shellfish area # 054-215 (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.160
VAT-C07E_HAR02B10 / Harris River - Lower Marina Area / South shore trib. to mainstem Back R. Adjacent to Fox Hill area. CBP Segment MOBPH. DSS (Seasonal) shellfish condemnation # 054-215 M2 (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.053
VAT-C07E_HOD01A08 / Hodges Creek - Upper / North shore trib to Poquoson R. @ Fish Neck. CBP Segment MOBPH. Portion of DSS shellfish Conditionally Approved -condemnation # 053-137 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.047
VAT-C07E_IN101A08 / DSS Inlet #1 - Unnamed Inlet at Mouth of SW Branch / South shore trib. to mainstem Back R. Located east of mouth of SW Branch. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-021 B (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.025
VAT-C07E_INB01A04 / DSS Inlet #2 - Unnamed Inlet S. Shore of SW Br. Back River / South shore trib. to Southwest Branch Back R. Located near mouth of SW Branch, west of unnamed DSS Inlet #1. DSS Restricted condemnation # 054-021 B (effective 20201115). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.008
VAT-C07E_LMC01A04 / Lambs Creek - Poquoson River / South shore tributary to Poquoson R, west of Poquoson Shores. On border of Poquoson/York boundary. Between Moores Cr. and Roberts Cr to east. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 C (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.135
VAT-C07E_LMC02A16 / Lambs Creek - Mouth / Mouth of Lambs Creek located on South shore tributary to Poquoson R, west of Poquoson Shores. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 C (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.028
VAT-C07E_LON01A06 / Long & Grunland Creeks - Back River / South shore trib. to mainstem Back R. Adjacent to Grandview natural Preserve area. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 C (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.043

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_LON01B12 / Long & Grunland Creeks - Back River / South shore trib. to mainstem Back R. Adjacent to Grandview area. CBP Segment MOBPH. DSS shellfish ADMIN harvesting condemnation # 054-215 C (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.055
VAT-C07E_LYO01A06 / Lyons Creek - Upper / South shore tributary to Poquoson R, in area of York Haven Anchorage. East of Roberts Cr. and north of White House Cove. CBP Segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 B (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.070
VAT-C07E_LYO02A06 / Lyons Creek - Middle and Lower / South shore tributary to Poquoson R, in area of York Haven Anchorage. East of Roberts Cr. and north of White House Cove. Lower portion of Lyons Cr. CBP Segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.050
VAT-C07E_NEW01A02 / Newmarket Creek - Upper / South of Blue Bird Gap Farm area. From end of tidal waters at Terrant ES (approx. RM 5.1) downstream to I-64 crossing (RM 3.68). CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.073
VAT-C07E_NEW02A02 / Newmarket Creek - Lower / South of Blue Bird Gap Farm area. From the I-64 crossing (RM 3.68) downstream to confluence with SW Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.079
VAT-C07E_NWB01A06 / Northwest Br. Back River - Upper [TMDL-CD] / CBP Segment MOBPH. Headwaters to confluence of Cedar Creek between Cedar Point and Marsh Point. Portion of DSS shellfish condemnation # 054-021 A (less Cedar/Topping & Brick Kiln Creeks, effective 20201115).	4A	Dissolved Oxygen	2020	L	0.220
VAT-C07E_NWB01B08 / Northwest Br. Back River - Upper [TMDL not CD] / Northwest Br. Back River upper portion from confluence of Cedar Creek downstream to confluence Tabbs Cr. Portion DSS shellfish condemnation # 054-021 A (less Cedar/Topping & Brick Kiln Creeks, effective 20201115). CBP Segment MOBPH.	4A	Dissolved Oxygen	2020	L	0.248
VAT-C07E_NWB02A06 / Northwest Br. Back River - Lower [DSS OPEN] / From area of confluence of Topping Creek (approx. RM 1.5) downstream to confluence with mainstem Back R. CBP Segment MOBPH. Portion of DSS (OPEN) shellfish condemnation # 054-021 (effective 20181018).	4A	Dissolved Oxygen	2020	L	0.961

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_POQ01A06 / Poquoson River - Upper [TMDL-CD] / From Rt 17 crossing @ reservoir dam (RM 5.7) downstream to past confluence of Quarter March Cr (RM 2.7) @ Calthrop Neck. Including Moores & Quarter March Creeks. CBP Segment MOBPH. DSS shellfish condemn # 053-137 A (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.518
VAT-C07E_POQ02A06 / Poquoson River - Lower [DSS-OPEN] / From Calthrop Neck downstream to mouth of Hodges Cove. CBP Segment MOBPH. DSS (OPEN) shellfish harvesting condemnation # 053-137 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.834
VAT-C07E_POQ03A08 / Poquoson River - Mouth / From Hunts Point a wedge NW across Poquoson River mouth to northern shore. CBP Segment MOBPH. DSS (OPEN) shellfish harvesting condemnation # 053-999 (effective 20201002).	4A	Dissolved Oxygen	2008	L	1.492
VAT-C07E_PTC01A04 / Patricks Creek - Poquoson River / North shore trib to Poquoson River south of Dare area. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 B (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.119
VAT-C07E_ROB01A04 / Roberts Creek - Upper / South of mouth of Poquoson River between Hunts Pt. and Griffins Beach areas. CBP Segment MOBPH. DSS ADMIN Shellfish condemnation # 053-222 A (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.104
VAT-C07E_ROB02A08 / Roberts Creek - Lower [DSS-OPEN] / South of mouth of Poquoson River between Hunts Pt. and Griffins Beach areas. CBP Segment MOBPH. DSS OPEN Shellfish condemnation # 053-222 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.009
VAT-C07E_SWB01A08 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.706
VAT-C07E_SWB02A08 / Southwest Br. Back River - Mouth [DSS OPEN -No TMDL] / Lower portion to confluence with mainstem Back R. CBP Segment MOBPH. Portion of DSS shellfish (OPEN) condemnation # 054-021 (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.568
VAT-C07E_SWB03A20 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation seasonally restricted and conditionally condemned areas # 054-021 B (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.413

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_TBC01A04 / Tabbs Creek - NW Br Back River / Tributary to Northwest Branch Back River, entirety of creek. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-021 E (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.073
VAT-C07E_TBC02A10 / Tabbs Creek Mouth - NW Br Back River / Tributary to Northwest Branch Back River, mouth of creek. CBP segment MOBPH. Portion of DSS Conditionally Approved shellfish condemnation # 054-021 (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.034
VAT-C07E_THR01A10 / Sandbox Area NW Thorofare / Sandbox Area NW Thorofare Inlet near Goodwin Neck. CBP Segment MOBPH. DSS OPEN condemnation 053-051 (effective 20190515).	4A	Dissolved Oxygen	2020	L	0.012
VAT-C07E_WAL01A06 / Wallace Creek - Upper (Back River) / Tributary to south shore Back River, east of Harris R & adjacent to Inlet #2. Most upstream tip of creek. CBP segment MOBPH. DSS (PROHIBITED - ADMIN COND) shellfish condemnation # 054-215 B& D (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.036
VAT-C07E_WAT01A06 / Watts Creek - (NW Br. Back River) / Located southwest of Poquoson. Watts Cr. trib to Northwest Br. of Back R. CBP segment MOBPH. Portion of DSS condemnation # 054-021 (effective 20201115).	4A	Dissolved Oxygen	2020	L	0.058
VAT-C07E_WHH01A06 / White House Cove - Bennet Cr. Area / Located in York Haven Anchorage area, south of mouth of Poquoson R, CBP segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 C and seasonal M1 (effective 20200615).	4A	Dissolved Oxygen	2020	L	0.145
VAT-C07E_ZZZ01A00 / Unsegmented estuaries in Back River / Non segmented areas of C07E. CBP Segment MOBPH. No DSS direct shellfish harvesting condemnation.	4A	Dissolved Oxygen	2020	L	1.040
VAT-C07E_ZZZ01B12 / Unsegmented estuaries in Back River - DSS / Non segmented areas of C07E. CBP Segment MOBPH. DSS Condemnation # 054-021 B (effective date 20201115).	4A	Dissolved Oxygen	2020	L	0.097

Chesapeake Bay segment MOBPH

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
133.394		

Chesapeake Bay segment MOBPH

Open-Water Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
133.394		

Virginia Department of Environmental Quality

Appendix 4 - Fact Sheets for Impaired (Category 4 or 5) Waters in 2022

Sources: Agriculture; Atmospheric Deposition; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **MOBPH-SAV-BAY** Chesapeake Bay segment MOBPH (Mobjack Bay)

Cause Location: This cause encompasses the complete CBP segment MOBPH.

Cause City/County: Gloucester County; Hampton; Mathews County; Poquoson City; York County

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: The acres of submerged aquatic vegetation (SAV) mapped through aerial surveys do not meet the criteria. Submerged Aquatic Vegetation acres goal is 15,908 acres. Aerial analysis of SAV over the three most recent years of data indicate segment has attained 48% of this goal. Only 58% of water clarity goal met according to 2012 Dataflow surveys.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-R01E-MOB / Chesapeake Bay - CBP Segment MOBPH / This assessment unit is the mainstem Chesapeake Bay and Mobjack Bay portions of Chesapeake Bay Program segment MOBPH, located off the mouth of the York River including Mobjack Bay. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	92.951
VAP-C04E_BEV01A08 / Belleville Creek / Described in VDH Shellfish Condemnation 042-157S162, 7/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.053
VAP-C04E_BKA01A98 / Back Creek / Described in VDH condemnation notice 042-157C, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.056
VAP-C04E_BKA01C20 / Back Creek / Portion of VDH condemnation notice 157C, 6/3/1997 not condemned on 7/15/2020 (seasonally condemned). Merged in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.029
VAP-C04E_BLW01A98 / Blackwater Creek / Described in the condemnation notice 042-131A, 6/3/1997. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.101
VAP-C04E_BLW02A22 / Blackwater Creek / Portion of VDH-DSS Condemnation 042-131S161, 7/15/2020 not included in 131A, 6/3/1997. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.008
VAP-C04E_BUR01A00 / Burke Mill Stream / From extent of tide to North River MOBPH	4A	Aquatic Plants (Macrophytes)	2010	L	0.025
VAP-C04E_DAV01A98 / Davis Creek / Described in VDH-DSS condemnation notice 042-131S22, 7/15/2020. Merged and expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.072

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_DVS01A98 / Davis Creek / Described in VDH-DSS condemnation notice 85, 9/22/1997. Merged in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C04E_DVS01B08 / Davis Creek / Described in the condemnation notice 040-085M2, 9/21/2010. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.011
VAP-C04E_DVS03A12 / Davis Creek / Described in VDH-DSS condemnation 040-085A, 9/24/2018. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.013
VAP-C04E_ELM01A98 / Elmington Creek / Described in the condemnation notice 157B, 6/3/1997. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.023
VAP-C04E_ELM01B08 / Elmington Creek / Portion of VDH condemnation notice 042-157D, 7/15/2020 not included in 157B, 6/3/1997. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.009
VAP-C04E_EST01A98 / East River / Described in the condemnation notice 92, 1/3/1995. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.198
VAP-C04E_EST01B10 / East River / Portion of condemnation notice 041-092A, 10/15/2020 open in 92, 1/3/1995. Size increased in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.072
VAP-C04E_EST01D10 / East River, UT / Described in the condemnation notice 041-092S43, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.023
VAP-C04E_EST02A00 / East River / East River from SFC 92 to mouth, not otherwise segmented. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	2.473
VAP-C04E_EST02B20 / East River, UT / Described in VDH-DSS condemnation 041-092C, 10/15/2020. Size reduced in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.013
VAP-C04E_EST03A06 / East River, UT / Described in VDH-DSS SFC 041-212M1, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C04E_EST04A02 / East River, UT / Described in VDH-DSS Condemnation Notice 041-212S197, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.026
VAP-C04E_EST05A06 / East River, UT (aka Mill Creek) / Described in VDH-DSS SFC 041-212S198, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.026

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EST06A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212G, 10/25/2005. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAP-C04E_EST07A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212C, 9/30/2016. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.014
VAP-C04E_EST08A08 / East River, UT / Described in VDH Shellfish Condemnation 041-212S46, 9/24/2018. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.004
VAP-C04E_EST09A22 / East River, UT / Described in VDH-DSS Condemnation 041-092S42, 10/15/2020 MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.015
VAP-C04E_GRE01A08 / Greenmansion Cove / Described in VDH-DSS condemnation notice 042-131M1, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.054
VAP-C04E_MIS01A04 / Miles Creek / Described in VDH Condemnation Notice 041-212B, 10/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.039
VAP-C04E_NOR01A02 / North River / Described in VDH-DSS condemnation notice 042-157A, 7/15/2020, excluding tidal Burke Mill Stream. Split in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.250
VAP-C04E_NOR01B08 / North River / Portion of condemnation notice 042-157S24, 7/15/2020 not included on the 6/3/1997 condemnation. Size expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.364
VAP-C04E_NOR01C22 / North River / Portion of VDH-DSS condemnation 042-057S24, 7/15/2020 closed in condemnation 157A, 6/3/1997. Split in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.067
VAP-C04E_NOR02A02 / North River / North River and tribs from SFC 157 to Mobjack Bay, except as otherwise segmented. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	5.399
VAP-C04E_NOR03A20 / North River, UT / Described in VDH-DSS condemnation 042-157B, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAP-C04E_NOR04A22 / North River, UT / Described in VDH-DSS Condemnation 042-157S159, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.010

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_OAK01A08 / Oakland Creek / Described in VDH-DSS condemnation notice 042-131S160, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAP-C04E_PEP01A06 / Pepper Creek / As described in the condemnation notice 040-085B, 9/26/2006. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.031
VAP-C04E_PUT01A98 / Put In Creek / Portion of VDH-DSS condemnation notice 041-005A, 10/15/2019 included in 5A, 6/5/1996. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.077
VAP-C04E_PUT01C10 / Put In Creek / Portion of condemnation notice 5A, 6/5/1996 open in 041-005, 10/15/2019. Shortened in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.005
VAP-C04E_PUT01D16 / Put In Creek / Described in condemnation notice 041-005B, 10/15/2019. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.005
VAP-C04E_PUT01E20 / Put In Creek / Described in VDH-DSS condemnation notice 041-005S44, 10/15/2019. Expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.044
VAP-C04E_PUT02A98 / Put In Creek / Described in the condemnation notice 5B, 6/5/1996. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAP-C04E_RAN01A08 / Raines Creek / Described in VDH Shellfish Condemnation 041-212I, 10/25/2005. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.039
VAP-C04E_RAY01A12 / Raymond Creek / Described in VDH-DSS condemnation 042-131B, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.026
VAP-C04E_SLO01A08 / Sloop Creek / Described in VDH-DSS Condemnation 040-085A, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.028
VAP-C04E_TAB01A08 / Tabbs Creek / Described in VDH Shellfish Condemnation 041-212S166, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAP-C04E_THO01A08 / Thomas Creek / Described in VDH Shellfish Condemnation 041-212B, 9/25/2014. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.014

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_TOD01A20 / Toddsbury Creek / Described in VDH-DSS condemnation 042-157E, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAP-C04E_WON01A08 / Weston Creek / Described in VDH Shellfish Condemnation 041-212A, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.025
VAP-C04E_WOO01A10 / Woodas Creek / Described in VDH-DSS condemnation notice 041-092B, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.029
VAP-C04E_WOO02A20 / Woodas Creek / Described in VDH-DSS condemnation 041-09S45, 10/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAP-C04E_WTS01A08 / Whites Creek / Described in VDH Shellfish Condemnation 041-212E, 10/25/2005. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAP-C04E_XFA03A14 / XFA - North River, UT / Described in VDH-DSS condemnation 042-131A, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAP-C04E_ZZZ03A06 / Unsegmented estuaries in C04 / Unsegmented portion within MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.428
VAP-C05E_FOX01A08 / Fox Mill Run / Described in VDH condemnation notice 96B, 8/12/1996. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.085
VAP-C05E_OLD01A12 / Oldhouse Creek / Tidal limit to mouth at Ware River MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.102
VAP-C05E_WAR01A02 / Ware River / Described in the condemnation notice 096A, 8/12/1996. Tidal extent adjusted in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.270
VAP-C05E_WAR01B08 / Ware River / Portion of VDH condemnation notice 043-096A, 7/15/2020 not included in condemnation 96A and 96B, 8/12/1996. Expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.224
VAP-C05E_WAR02A02 / Ware River / Ware River downstream of SFC 096. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	6.309
VAP-C05E_WAR02B18 / Ware River / Described in VDH-DSS condemnation 043-096CS188, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.010

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C05E_WAR02C20 / Ware River / Described in VDH-DSS condemnation 043-096S26, 7/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.316
VAP-C05E_WIL01A98 / Wilson Creek / Described in the condemnation notice 106, 8/12/1996. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.033
VAP-C05E_WIL01B08 / Wilson Creek / Portion of VDH condemnation notice 043-096B, 7/15/2020 not included in condemnation notice 106, 8/12/1996. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.142
VAP-C05E_WIL02A22 / Wilson Creek / Described in VDH-DSS Condemnation 043-096S25, 7/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.137
VAP-C05E_XDJ01A08 / XDJ - Wilson Creek, UT / Tidal limit to mouth at Wilson Creek. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.010
VAP-C05E_ZZZ01A00 / Unsegmented estuaries in C05 / Unsegmented portion of the watershed. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.116
VAP-C06E_BLV01A20 / Blevins Creek / Described in VDH-DSS condemnation 045-125A, 12/15/2020. Size reduced slightly in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.049
VAP-C06E_BRB01A08 / Browns Bay / Described in VDH Shellfish Condemnation 125B, 12/31/1996. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAP-C06E_BRB01B12 / Browns Bay / Portion of VDH Shellfish Condemnation 045-125M1, 12/15/2020 not included in 125B, 12/31/1996. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.024
VAP-C06E_FSC01A98 / Free School Creek / Described in VDH Shellfish Condemnation 044-093A, 6/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.039
VAP-C06E_FSC01B12 / Free School Creek / Portion of TMDL study area open for harvest on 044-093, 6/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.027
VAP-C06E_HEY01A98 / Heywood Creek / Described in the condemnation notice 044-054B, 6/15/2020. Expanded in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.106
VAP-C06E_HEY01B10 / Heywood Creek / Portion of condemnation notice 101, 4/1/1997 open in condemnation 044-054, 6/15/2020. Shortened in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.060

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_MNC01A98 / Monday Creek / Portion of VDH-DSS condemnation notice 25A, 12/31/1996 open on 12/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAP-C06E_MNC01B18 / Monday Creek / Described in VDH-DSS condemnation notice 045-125A, 12/12/2017. Tidal limit corrected in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.064
VAP-C06E_ROW01A06 / Rowes Creek / Described in VDH-DSS Shellfish Condemnation 044-054M2, 6/15/2020. Shortened in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.041
VAP-C06E_SEN01A02 / Northwest Branch Severn River / Described in condemnation notice 044-093B, 6/15/2020, excluding tributary XEE. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.127
VAP-C06E_SEN01B16 / Northwest Branch Severn River, UT / Described in VDH-DSS condemnation notice 044-093D, 5/30/2018. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAP-C06E_SEN01C10 / Northwest Branch Severn River / Portion of condemnation notice 93A, 4/1/1997 open on 044-093, 6/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.167
VAP-C06E_SEN02A06 / Northwest Branch Severn River / Northwest Branch Severn Creek not otherwise segmented Segment adjusted in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.427
VAP-C06E_SES01A00 / Southwest Branch Severn River / Mainstem MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.635
VAP-C06E_SEV02A00 / Severn River / End of NW Branch to mouth, unless otherwise segmented. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	3.258
VAP-C06E_STR01A08 / Sterling Creek / Described in VDH Shellfish Condemnation 044-093E, 4/2/2014. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAP-C06E_THC01A98 / Thorntons Creek / Described in the condemnation notice 044-054A, 6/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.063
VAP-C06E_THC01B10 / Thorntons Creek / Portion of condemnation notice 054, 4/1/1997 open in condemnation 044-054, 6/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C06E_VGH01A98 / Vaughans Creek / Described in the condemnation notice 93B, 4/1/1997. Merged in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.121
VAP-C06E_VGH02A22 / Vaughans Creek / Portion of VDH-DSS Condemnation 044-093C, 6/15/2020 not included in 93B, 4/4/1997 MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.015
VAP-C06E_WET01A06 / Willetts Creek / Described in VDH Shellfish Condemnation 044-054M1, 6/15/2020. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.033
VAP-C06E_WET01B08 / Willetts Creek / Described in VDH Condemnation 044-054C, 2/15/2006. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.128
VAP-C06E_WTT01A08 / Whitaker Creek / Described in VDH-DSS Condemnation 044-093D, 6/15/2020 Size reduced in the 2022 cycle. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	0.037
VAP-C06E_XEE01A10 / XEE - Northwest Branch Severn River, UT / Tidal limit to mouth at NW Branch Severn River MOBPH	4A	Aquatic Plants (Macrophytes)	2012	L	0.003
VAP-C06E_ZZZ01A00 / Unsegmented estuaries in C06 / Unsegmented portion of the watershed. MOBPH	4A	Aquatic Plants (Macrophytes)	2006	L	1.358
VAT-C07E_BAK01A00 / Mainstem Back River / From junction of Northwest and Southwest Branches downstream to mouth of Back River. Portion of CBP Segment MOBPH. DSS Condemnation 054-215 OPEN (20181018) and 054-021 (20151102) shellfish condemnations.	4A	Aquatic Plants (Macrophytes)	2006	L	3.340
VAT-C07E_BAK01B08 / Mainstem Back River-South Shore at Mouth Wallace Cr. / Portion of mainstem along south shore between Windmill Pt. and Grunland Pt. CBP Segment MOBPH. DSS shellfish condemnation # 054-215 M1 (Seasonal)(effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.091
VAT-C07E_BAK02A14 / Back Creek - Inlet near Dandy Point [TMDL] / Tributary to south shore Back River (incl area in Back R), east of Harris R & adjacent to Inlet #2. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-215 B, 20181018.	4A	Aquatic Plants (Macrophytes)	2006	L	0.034

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BCK01A00 / Back Creek - Upper / Back Creek (S of York R mouth) tributary to the Thorofare and Chesapeake Bay. From end of tidal waters downstream to point upstream of Dandy (RM 1.6). CBP Segment MOBPH. DSS shellfish condemnation # 053-151 A &M1 (effective 20190515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.281
VAT-C07E_BCK02A06 / Back Creek - Middle (DSS-marina area) / Back Creek (S of York R mouth) is a tributary to The Thorofare and Chesapeake Bay. CBP Segment MOBPH. Area within DSS shellfish condemnation # 053-151 M1, around marina area (effective 20180425).	4A	Aquatic Plants (Macrophytes)	2006	L	0.078
VAT-C07E_BCK03A06 / Back Creek - Lower / Back Creek (S of York R mouth) is a tributary to The Thorofare and Chesapeake Bay. CBP Segment MOBPH. From upstream of Dandy (RM 1.6) downstream to mouth (RM 0.0). DSS (OPEN) shellfish condemnation # 053-151 (effective 20190515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.405
VAT-C07E_BEN01A06 / Bennett Creek - Upper (DSS_06-IR) / Bennett Creek upstream portion (S of Poquoson R mouth) tributary to Poquoson River. From end of tidal waters downstream 0.1 mi. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 053-222 E (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.039
VAT-C07E_BEN02A08 / Bennet Creek - Lower Middle / South shore tributary to Poquoson R, in area of Griffins Beach. East of Roberts Cr. and north of White House Cove. CBP Segment MOBPH. DSS (OPEN, Seasonal, and Conditionally Approved) Shellfish condemnation # 053-222 M1 and S147 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.209
VAT-C07E_BEN03A16 / Bennett Creek-Mouth / Mouth of Bennett Creek. CBP Segment MOBPH. No DSS direct shellfish harvesting condemnation.	4A	Aquatic Plants (Macrophytes)	2006	L	0.366
VAT-C07E_BRK01A06 / Brick Kiln Creek / From 0.3 mi. downstream of Big Bethel Res. dam (approx. RM 5.0, end of tidal waters north of Ebenezer Church) downstream to confluence with Northwest Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 A (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.086
VAT-C07E_BTC01A08 / Bay Tree Creek / Trib to Bay, S of The Thorofare & N of mouth of Poquoson R. @ Bay Tree Point. CBP Segment MOBPH. DSS Shellfish condemnation # 053-221 B (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.076

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_BTC02A18 / Bay Tree Creek- Mouth / Trib to Bay, S of The Thorofare & N of mouth of Poquoson R. @ Bay Tree Point. CBP Segment MOBPH. DSS (OPEN) Shellfish condemnation # 053-221 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.050
VAT-C07E_BTH01A08 / Boathouse Creek / Boathouse Creek (N of Poquoson R mouth) tributary to Chisman Creek. CBP Segment MOBPH. DSS condemnation # 053-221 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAT-C07E_BTH01B22 / Chisman Creek-Lower North Shore (Marina) / Downstream section of Boathouse Creek, from Anchor Drive to mouth. CBP Segment MOBPH. DSS Conditionally Approved S141 condemnation # 053-221 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAT-C07E_CAB01A08 / Cabin Creek / Cabin Creek (N of Poquoson R mouth) tributary to Chisman Creek. CBP Segment MOBPH. DSS shellfish condemnation # 053-221 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.082
VAT-C07E_CCR01A06 / Cedar & Topping Creeks / Located near City of Poquoson. Cedar & Topping Creeks are tribs to the north shore of the Northwest Branch of Back River. Portion of DSS condemnation # 054-021 A (less NW Br Back R./Brick Kiln Cr. portion) effective 20201115. CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.109
VAT-C07E_CHS01A06 / Chisman Creek-Upper / From end of tidal waters (upper 1/3 of creek), downstream to area of Evergreen Shores (approx. RM 0.9). CBP Segment MOBPH. DSS condemnation # 053-221A & seasonal M2 (effective 20180425).	4A	Aquatic Plants (Macrophytes)	2006	L	0.408
VAT-C07E_CHS02A06 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Spivey Road to mouth. CBP Segment MOBPH. DSS (OPEN) condemnation # 053-221 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.520
VAT-C07E_CHS02B22 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Seaford Shores to north side of water near Spivey Rd. CBP Segment MOBPH. DSS Seasonally Restricted and Conditionally Approved condemnation # 053-221 M1 & S140 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.005
VAT-C07E_CHS02C22 / Chisman Creek-Lower North Shore (Marina) / Lower 2/3 of creek, downstream from area of Goose Creek to Seaford Shores area. CBP Segment MOBPH. DSS Conditionally Approved condemnation # 053-221 S140 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.005

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_CHS03A20 / Chisman Creek - Lower / First inlet on the right coming into the mouth of the Chisman. CBP Segment MOBPH. DSS Restricted-condemnation # 053-221 & M1(effective 20180425).	4A	Aquatic Plants (Macrophytes)	2006	L	0.006
VAT-C07E_EAS01A06 / Easton Cove / Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. DSS Conditionally approved shellfish condemnation # 053-222 S147 (effective 20200615). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.057
VAT-C07E_FLY01A06 / Floyds Bay- Upper / Upper Portion of Floyds Bay. Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. Portion of DSS shellfish condemnation # 053-222 D (effective 20200615). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAT-C07E_FLY02A16 / Floyds Bay- mouth / Located in southeast corner of Bennett Cr, trib to Poquoson River. Area of York Haven Anchorage. Portion of DSS shellfish condemnation # 053-222 D (effective 20180425). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.010
VAT-C07E_FRT01A06 / Front Cove - Upper / North shore trib. to mainstem Back R. Adjacent to Messick Point. DSS shellfish condemnation # 054-021 C (effective 20201115). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAT-C07E_FRT02A08 / Front Cove - Lower / North shore trib. to mainstem Back R. Adjacent to Messick Point. DSS shellfish Seasonal condemnation # 054-021 M1 (effective 20181018). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.036
VAT-C07E_GLD01A10 / Grunland Creek - Mouth / South shore trib. to mainstem Back R. Adjacent to Grandview area. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.053
VAT-C07E_GLD02A18 / Grunland Creek - Back River / South shore trib. to mainstem Back R. Adjacent to Grunland Point. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 C (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.049
VAT-C07E_GOO01A14 / Goose Creek- Upper / From end of tidal waters to approx. River mile 0.27. DSS Shellfish condemnation # 053-221 C (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.065
VAT-C07E_GOO02A14 / Goose Creek- Lower / From Rivermile 0.27 to mouth. CBP Segment MOBPH. DSS Restricted-condemnation # 053-221 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.036

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_HAR01A06 / Harris River - Upper / South shore trib. to mainstem Back R. Adjacent to Fox Hill area. DSS shellfish condemnation # 054-215 A (effective 20201115). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.198
VAT-C07E_HAR02A10 / Harris River - Mouth / South shore trib. to mainstem Back R. East shore area at mouth. Adjacent to Fox Hill area. CBP Segment MOBPH. DSS (OPEN) shellfish area # 054-215 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.160
VAT-C07E_HAR02B10 / Harris River - Lower Marina Area / South shore trib. to mainstem Back R. Adjacent to Fox Hill area. CBP Segment MOBPH. DSS (Seasonal) shellfish condemnation # 054-215 M2 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.053
VAT-C07E_HOD01A08 / Hodges Creek - Upper / North shore trib to Poquoson R. @ Fish Neck. CBP Segment MOBPH. Portion of DSS shellfish Conditionally Approved -condemnation # 053-137 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.047
VAT-C07E_IN101A08 / DSS Inlet #1 - Unnamed Inlet at Mouth of SW Branch / South shore trib. to mainstem Back R. Located east of mouth of SW Branch. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-021 B (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.025
VAT-C07E_INB01A04 / DSS Inlet #2 - Unnamed Inlet S. Shore of SW Br. Back River / South shore trib. to Southwest Branch Back R. Located near mouth of SW Branch, west of unnamed DSS Inlet #1. DSS Restricted condemnation # 054-021 B (effective 20201115). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.008
VAT-C07E_LMC01A04 / Lambs Creek - Poquoson River / South shore tributary to Poquoson R, west of Poquoson Shores. On border of Poquoson/York boundary. Between Moores Cr. and Roberts Cr to east. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 C (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.135
VAT-C07E_LMC02A16 / Lambs Creek - Mouth / Mouth of Lambs Creek located on South shore tributary to Poquoson R, west of Poquoson Shores. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 C (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.028
VAT-C07E_LON01A06 / Long & Grunland Creeks - Back River / South shore trib. to mainstem Back R. Adjacent to Grandview natural Preserve area. CBP Segment MOBPH. DSS shellfish harvesting condemnation # 054-215 C (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.043

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_LON01B12 / Long & Grunland Creeks - Back River / South shore trib. to mainstem Back R. Adjacent to Grandview area. CBP Segment MOBPH. DSS shellfish ADMIN harvesting condemnation # 054-215 C (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.055
VAT-C07E_LYO01A06 / Lyons Creek - Upper / South shore tributary to Poquoson R, in area of York Haven Anchorage. East of Roberts Cr. and north of White House Cove. CBP Segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 B (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.070
VAT-C07E_LYO02A06 / Lyons Creek - Middle and Lower / South shore tributary to Poquoson R, in area of York Haven Anchorage. East of Roberts Cr. and north of White House Cove. Lower portion of Lyons Cr. CBP Segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.050
VAT-C07E_NEW01A02 / Newmarket Creek - Upper / South of Blue Bird Gap Farm area. From end of tidal waters at Terrant ES (approx. RM 5.1) downstream to I-64 crossing (RM 3.68). CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.073
VAT-C07E_NEW02A02 / Newmarket Creek - Lower / South of Blue Bird Gap Farm area. From the I-64 crossing (RM 3.68) downstream to confluence with SW Br. Back R. CBP Segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.079
VAT-C07E_NWB01A06 / Northwest Br. Back River - Upper [TMDL-CD] / CBP Segment MOBPH. Headwaters to confluence of Cedar Creek between Cedar Point and Marsh Point. Portion of DSS shellfish condemnation # 054-021 A (less Cedar/Topping & Brick Kiln Creeks, effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.220
VAT-C07E_NWB01B08 / Northwest Br. Back River - Upper [TMDL not CD] / Northwest Br. Back River upper portion from confluence of Cedar Creek downstream to confluence Tabbs Cr. Portion DSS shellfish condemnation # 054-021 A (less Cedar/Topping & Brick Kiln Creeks, effective 20201115). CBP Segment MOBPH.	4A	Aquatic Plants (Macrophytes)	2006	L	0.248
VAT-C07E_NWB02A06 / Northwest Br. Back River - Lower [DSS OPEN] / From area of confluence of Topping Creek (approx. RM 1.5) downstream to confluence with mainstem Back R. CBP Segment MOBPH. Portion of DSS (OPEN) shellfish condemnation # 054-021 (effective 20181018).	4A	Aquatic Plants (Macrophytes)	2006	L	0.961

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_POQ01A06 / Poquoson River - Upper [TMDL-CD] / From Rt 17 crossing @ reservoir dam (RM 5.7) downstream to past confluence of Quarter March Cr (RM 2.7) @ Calthrop Neck. Including Moores & Quarter March Creeks. CBP Segment MOBPH. DSS shellfish condemn # 053-137 A (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.518
VAT-C07E_POQ02A06 / Poquoson River - Lower [DSS-OPEN] / From Calthrop Neck downstream to mouth of Hodges Cove. CBP Segment MOBPH. DSS (OPEN) shellfish harvesting condemnation # 053-137 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.834
VAT-C07E_POQ03A08 / Poquoson River - Mouth / From Hunts Point a wedge NW across Poquoson River mouth to northern shore. CBP Segment MOBPH. DSS (OPEN) shellfish harvesting condemnation # 053-999 (effective 20201002).	4A	Aquatic Plants (Macrophytes)	2006	L	1.492
VAT-C07E_PTC01A04 / Patricks Creek - Poquoson River / North shore trib to Poquoson River south of Dare area. CBP Segment MOBPH. DSS Shellfish condemnation # 053-137 B (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.119
VAT-C07E_ROB01A04 / Roberts Creek - Upper / South of mouth of Poquoson River between Hunts Pt. and Griffins Beach areas. CBP Segment MOBPH. DSS ADMIN Shellfish condemnation # 053-222 A (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.104
VAT-C07E_ROB02A08 / Roberts Creek - Lower [DSS-OPEN] / South of mouth of Poquoson River between Hunts Pt. and Griffins Beach areas. CBP Segment MOBPH. DSS OPEN Shellfish condemnation # 053-222 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.009
VAT-C07E_SWB01A08 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-021 B (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.706
VAT-C07E_SWB02A08 / Southwest Br. Back River - Mouth [DSS OPEN -No TMDL] / Lower portion to confluence with mainstem Back R. CBP Segment MOBPH. Portion of DSS shellfish (OPEN) condemnation # 054-021 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.568
VAT-C07E_SWB03A20 / SW Br Back River - Incl Tides Mill Cr [TMDL area] / Headwaters of Southwest Branch (incl tidal Tides Mill Cr) downstream to Langley View. CBP segment MOBPH. Portion of DSS shellfish condemnation seasonally restricted and conditionally condemned areas # 054-021 B (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.413

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C07E_TBC01A04 / Tabbs Creek - NW Br Back River / Tributary to Northwest Branch Back River, entirety of creek. CBP segment MOBPH. Portion of DSS shellfish condemnation # 054-021 E (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.073
VAT-C07E_TBC02A10 / Tabbs Creek Mouth - NW Br Back River / Tributary to Northwest Branch Back River, mouth of creek. CBP segment MOBPH. Portion of DSS Conditionally Approved shellfish condemnation # 054-021 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAT-C07E_THR01A10 / Sandbox Area NW Thorofare / Sandbox Area NW Thorofare Inlet near Goodwin Neck. CBP Segment MOBPH. DSS OPEN condemnation 053-051 (effective 20190515).	4A	Aquatic Plants (Macrophytes)	2006	L	0.012
VAT-C07E_WAL01A06 / Wallace Creek - Upper (Back River) / Tributary to south shore Back River, east of Harris R & adjacent to Inlet #2. Most upstream tip of creek. CBP segment MOBPH. DSS (PROHIBITED - ADMIN COND) shellfish condemnation # 054-215 B& D (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.036
VAT-C07E_WAT01A06 / Watts Creek - (NW Br. Back River) / Located southwest of Poquoson. Watts Cr. trib to Northwest Br. of Back R. CBP segment MOBPH. Portion of DSS condemnation # 054-021 (effective 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.058
VAT-C07E_WHH01A06 / White House Cove - Bennet Cr. Area / Located in York Haven Anchorage area, south of mouth of Poquoson R, CBP segment MOBPH. Portion of DSS Shellfish condemnation # 053-222 C and seasonal M1 (effective 20200615).	4A	Aquatic Plants (Macrophytes)	2006	L	0.145
VAT-C07E_ZZZ01A00 / Unsegmented estuaries in Back River / Non segmented areas of C07E. CBP Segment MOBPH. No DSS direct shellfish harvesting condemnation.	4A	Aquatic Plants (Macrophytes)	2006	L	1.040
VAT-C07E_ZZZ01B12 / Unsegmented estuaries in Back River - DSS / Non segmented areas of C07E. CBP Segment MOBPH. DSS Condemnation # 054-021 B (effective date 20201115).	4A	Aquatic Plants (Macrophytes)	2006	L	0.097

Chesapeake Bay segment MOBPH (Mobjack Bay)

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
133.394		

Chesapeake Bay segment MOBPH (Mobjack Bay)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
133.394		

Virginia Department of Environmental Quality

Appendix 4 - Fact Sheets for Impaired (Category 4 or 5) Waters in 2022

Sources: Agriculture; Atmospheric Deposition; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **PIAMH-SAV-BAY** Piankatank Mesohaline Estuary

Cause Location: The Piankatank Mesohaline estuary.

Cause City/County: Gloucester County; Mathews County; Middlesex County

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: During the 2006 cycle, the Chesapeake Bay Water Quality Standards were adopted. The Piankatank Mesohaline segment (PIAMH) fails the Submerged Aquatic Vegetation acreage requirements. There is insufficient data to assess the Water Clarity Acreage criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010; therefore, the segment is considered Category 4A.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C02E_DRN01A02 / Dragon Swamp / The tidal portion of Dragon Swamp to its mouth at the Piankatank River. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.823
VAP-C03E_COB02B20 / Cobbs Creek / Described in VDH-DSS condemnation 034-126S70, 12/15/2020. Expanded slightly in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.043
VAP-C03E_COB02C10 / Cobbs Creek / Described in VDH-DSS condemnation 034-126B, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.049
VAP-C03E_COR01A08 / Cores Creek / Described in VDH-DSS condemnation 034-208D, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAP-C03E_DAN01A08 / Dancing Creek / Described in VDH condemnation 025-076C, 2/15/2020 PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAP-C03E_FER01A98 / Ferry Creek / Described in VDH-DSS condemnation notice 035-076B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.010
VAP-C03E_FER01B20 / Ferry Creek / Portion of Ferry Creek that is not closed for oyster harvest. Expanded in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.115
VAP-C03E_FRE01A02 / Frenchs Creek / As described in the condemnation notice 035-076D, 2/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.010
VAP-C03E_HEA01A02 / Healy Creek / Described in VDH-DSS Shellfish Condemnation Notice 034-208A, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.047

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_HEA01B20 / Healy Creek / Described in VDH-DSS Shellfish Condemnation Notice 034-208S67, 12/15/2020 PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.024
VAP-C03E_HRP01A98 / Harper Creek / Described in the condemnation notice 076B, 6/10/1997. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.062
VAP-C03E_JCK01A98 / Jackson Creek / Described in VDH-DSS condemnation notice 84A, 11/1/1996. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.019
VAP-C03E_JCK01B08 / Jackson Creek / Described in VDH-DSS condemnation notice 084B, 11/1/1996. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.015
VAP-C03E_JCK01C08 / Jackson Creek / Mainstem portion of condemnation notice 033-084A, 12/11/2018 not included in 84A, 11/1/1996. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAP-C03E_JCK01C14 / Jackson Creek, UT / Described in VDH-DSS condemnation notice 033-084B, 2/15/2020. Shrank in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.014
VAP-C03E_JCK02A20 / Jackson Creek / Portion of VDH-DSS condemnation notice 033-084D, 12/11/2018 not included in 084B, 11/1/1996. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.032
VAP-C03E_JCK02B16 / Jackson Creek / Described in VDH-DSS condemnation notice 033-084E, 11/12/2014. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.011
VAP-C03E_JCK02C10 / Jackson Creek / Portion of VDH-DSS condemnation notice 033-084M1, 2/15/2020 not included in 033-084A, -B, or -D, 12/11/2018. Segment expanded in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.171
VAP-C03E_JCK03C10 / Jackson Creek / Described in VDH-DSS condemnation notice 033-084B, 12/11/2018. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.013
VAP-C03E_MRE01A02 / Moore Creek / As described in the condemnation notice 034-208C, 12/15/2020. Split in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.034
VAP-C03E_MRE01B22 / Moore Creek / As described in the condemnation notice 034-208S69, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.035

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_PNK01A02 / Piankatank River / Downstream limit of VDH-DSS condemnation SFC 035-076A, 6/10/1997 to Deep Point Boat Landing. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.558
VAP-C03E_PNK01A98 / Piankatank River / Watershed limit (start of Piankatank River) downstream to limit of SFC 035-076A, 6/10/1997. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	1.280
VAP-C03E_PNK02A00 / Piankatank River / Mainstem Piankatank from end of 035-076S65, 2/15/2020 downstream to PNK03A00, excluding the Berkley Island area. Size reduced in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	3.355
VAP-C03E_PNK02B08 / Piankatank River / Bend around Berkley Island PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.785
VAP-C03E_PNK02C20 / Piankatank River / Mainstem Piankatank from Deep Point Landing downstream to the boundary of 035-076S65, 2/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	1.210
VAP-C03E_PNK03A00 / Piankatank River / One-half mile radius around monitoring station 7-PNK005.36 on the Piankatank River between Pond Point and Iron Point. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	1.167
VAP-C03E_PNK04A00 / Piankatank River / Mainstem Piankatank River from PNK03A00 downstream to the point at Fishing Bay. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	3.528
VAP-C03E_PNK04B06 / Piankatank River / As described in VDH-DSS SFC 034-208M1, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.040
VAP-C03E_PNK04C06 / Piankatank River - Fishing Bay / As described in VDH-DSS SFC 034-208 M2, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.085
VAP-C03E_PNK04D08 / Porpoise Cove / As described in VDH-DSS SFC 034-208B, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.011
VAP-C03E_PNK05A02 / Piankatank River / Piankatank River downstream of Fishing Bay at Stove Point to mouth at Chesapeake Bay PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	4.949
VAP-C03E_PNK07B08 / Piankatank River, UT / Described in VDH-DSS SFC 034-126S71, 12/28/2018. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.007

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C03E_PNK08B08 / Piankatank River, UT / Described in VDH-DSS SFC 034-126S72, 12/28/2018 PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.003
VAP-C03E_WLT01A98 / Wilton Creek / Described in the condemnation notice 034-126A, 12/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.111
VAP-C03E_WLT01B20 / Wilton Creek / Portion of VDH-DSS condemnation 126, 3/2/1993 that is not condemned. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.023
VAP-C03E_ZZZ01B14 / Unsegmented estuaries in C03 / Unsegmented portion of watershed CB11. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.146
VAP-C04E_BLL01A16 / Billups Creek / Portion of VDH-DSS condemnation notice 204, 4/4/1997 seasonally condemned on 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.002
VAP-C04E_BLL01A98 / Billups Creek / Portion of VDH-DSS condemnation notice 204, 4/4/1997 closed on 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.044
VAP-C04E_BLL02A16 / Billups Creek / Billups Creek not otherwise segmented. Size reduced in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.185
VAP-C04E_BLL02B20 / Billups Creek / Portion of VDH-DSS condemnation 037-061B, 4/15/2020 open on 4/4/1997. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.006
VAP-C04E_BLL02C12 / Billups Creek / Portion of VDH-DSS condemnation 037-061S129, 4/15/2020 open in 204, 4/4/1997. Size increased in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.137
VAP-C04E_BRN01A04 / Barn Creek / Described in VDH-DSS condemnation notice 036-197C, 3/15/2019. Split in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.021
VAP-C04E_BRN02A22 / Barn Creek / Described in VDH-DSS condemnation notice 036-197S126, 3/15/2019. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.026
VAP-C04E_EDW01B18 / Edwards Creek / Described in VDH condemnation notice 197A, 1/21/1997. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.027

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_EDW02A98 / Edwards Creek / Portion of VDH-DSS condemnation notice 036-197B, 1/21/1997 open 3/15/2019. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.041
VAP-C04E_EDW02B20 / Edwards Creek / Portion of VDH-DSS condemnation notice 036-197D, 3/15/2019 not included in 197B, 1/21/1997. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.006
VAP-C04E_HKC01A08 / Hickorynut Cove / Tidal limit to mouth at Milford Haven PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.023
VAP-C04E_HUD01A08 / Hudgins Creek / Described in VDH-DSS Condemnation 037-061D, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C04E_LAN01A02 / Lanes Creek / As described in VDH-DSS condemnation notice 037-099C, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.020
VAP-C04E_LAN01B08 / Lanes Creek, UT / Described in VDH Shellfish Condemnation 037-099E, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.002
VAP-C04E_LAN02A22 / Lanes Creek / Described in VDH-DSS Condemnation 037-099S127, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.054
VAP-C04E_MID01A02 / Winder Creek / As described in the condemnation notice 037-099B, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.025
VAP-C04E_MLF01A98 / Milford Haven / Described in the condemnation notice 036-197A, 3/15/2019. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.029
VAP-C04E_MLF02A98 / Milford Haven / Described in the condemnation notice 036-197E, 3/15/2019 PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.030
VAP-C04E_MLF03A00 / Milford Haven / Downstream of SFC 036-197, 3/15/2019 except as otherwise segmented. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	1.411
VAP-C04E_MLF04A06 / Milford Haven / Hills Bay PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	2.283
VAP-C04E_MLF05A06 / Milford Haven / Described in VDH-DSS condemnation 036-197M1, 3/15/2019. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.041
VAP-C04E_MRC01A98 / Morris Creek / Described in VDH-DSS condemnation notice 61B, 4/4/1997. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.034

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_QUE01A98 / Queens Creek / Portion of VDH-DSS condemnation 99A, 4/9/1977 within 037-099A and -D, 4/15/2020. Split in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.094
VAP-C04E_QUE01B10 / Queens Creek / Described in VDH-DSS condemnation notice 037-099M1, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.031
VAP-C04E_QUE01C10 / Queens Creek / Below condemnation notice 99A, 4/7/1997, unless otherwise segmented. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.068
VAP-C04E_QUE01D22 / Queens Creek / Portion of VDH-DSS condemnation notice 99A, 4/9/1997 within 037-099S132, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.068
VAP-C04E_QUE02A12 / Queens Creek, UT / Described in VDH-DSS condemnation 037-099S169, 4/15/2020. Size reduced in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.011
VAP-C04E_STO01A08 / Stoakes Creek / Described in VDH Shellfish Condemnation 037-061M1, 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.006
VAP-C04E_STO01B14 / Stoakes Creek / Tidal limit to mouth unless otherwise segmented. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.292
VAP-C04E_STT01A98 / Stutts Creek / Described in VDH-DSS condemnation notice 037-061A, 4/15/2020. Split in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.074
VAP-C04E_STT01B06 / Stutts Creek, UT (Hole in the Wall) / Described in VDH-DSS condemnation 037-061S130, 4/15/2020. Expanded in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.038
VAP-C04E_STT01B10 / Stutts Creek/Morris Creek / Portion of VDH condemnation notice 037-061C, 4/15/2020 not condemned on 4/4/1997. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.045
VAP-C04E_STT01C14 / Stutts Creek / Described in VDH-DSS condemnation notice 037-061S128, 4/15/2020 excluding areas in 037-061D, 2/21/2017 and 61A, 4/4/1997. Merged and expanded in the 2022 cycle. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.109

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAP-C04E_STT01D22 / Stutts Creek / Portion of VDH-DSS condemnation 061A, 4/4/1997 seasonally condemned on 4/15/2020. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C04E_STT02A00 / Stutts Creek / Downstream limit of condemnation to Fanneys Point, except as otherwise segmented. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.229
VAP-C04E_STT02B20 / Stutts Creek, UT / Described in VDH-DSS condemnation 037-061D, 2/21/2017. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.009
VAP-C04E_STT05A10 / Stutts Creek (Hole in the Wall) / From Point Breeze downstream to its mouth at the Chesapeake Bay. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	1.037
VAP-C04E_WHA01A06 / Wharf Creek / Described in VDH-DSS SFC 036-197M2, 3/15/2019. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.018
VAP-C04E_WHI01A08 / Whites Creek / Whites Creek around Festival Beach PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.074
VAP-C04E_WHI01B12 / Whites Creek / Stutts Creek to Festival Beach PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.243
VAP-C04E_XFE01A16 / XFE - Piankatank River, UT (aka Kibble Pond) / Described in VDH-DSS condemnation 036-197B, 3/15/2019. PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.016
VAP-C04E_ZZZ01A00 / Unsegmented estuaries in C04 / Unsegmented portion of the watershed within PIAMH	4A	Aquatic Plants (Macrophytes)	2006	L	0.664

Piankatank Mesohaline Estuary

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
26.467		

Piankatank Mesohaline Estuary

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
26.467		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Natural Conditions - Water Quality Standards Use Attainability Analyses Needed; Sediment Resuspension (Clean Sediment); Source Unknown; Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **POCMH-SAV-BAY** Chesapeake Bay segment POCMH (Pocomoke Sound)

Cause Location: This cause encompasses the complete CBP segment POCMH.

Cause City/County: Accomack County

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: Submerged aquatic vegetation goal is 4067 acres and only 86% of this goal was attained in the most recent 3 years. The acres of submerged aquatic vegetation (SAV) mapped through aerial surveys do not meet the criteria. Only 70% of water clarity goal met according to 2014 and 2015 Dataflow surveys.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-C10E-POC / Chesapeake Bay - VA portion of CBP segment POCMH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment POCMH, located in the mesohaline area of Pocomoke sound. HUC: 02080101.	4A	Aquatic Plants (Macrophytes)	2006	L	41.048
VACB-C10E_POC01B18 / Pocomoke Sound / Pocomoke Sound - VDH DSS condemnation #075-033 (Restricted)	4A	Aquatic Plants (Macrophytes)	2006	L	2.480
VACB-C10E_POC01C20 / Pocomoke Sound / Pocomoke Sound - VDH DSS #075-033 (Open)	4A	Aquatic Plants (Macrophytes)	2006	L	3.347
VAT-C10E_BAG01A00 / Bagwell Creek / Northwest of Town of Justisville. Entirety of creek. Portion of CBP segment POCMH. DSS shellfish direct harvesting condemnation # 077-138 A (effective 20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.115
VAT-C10E_BAG02A10 / Bagwell Creek - Lower / Northwest of Town of Justisville. Lower DSS OPEN portion of Cr. Portion of CBP segment POCMH. DSS (OPEN) shellfish direct harvesting area # 077-138 (effective 20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.101
VAT-C10E_DIX01A08 / Dix Cove / Northwest of Town of Parksley. Adjacent to Bagwell & Hunting Creeks. Within CBP segment POCMH. Portion of DSS (OPEN) shellfish direct harvesting area # 077-138 (effective 20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.041
VAT-C10E_DOE01A22 / Doe Cr-Lower / Tributary of Chesapeake Bay off of Web Island in C10E-POCMH. DSS (OPEN) shellfish direct harvesting condemnation area # 077-138 (20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.225
VAT-C10E_DOE01B22 / Doe Cr-Upper / Tributary of Chesapeake Bay off of Web Island in C10E-POCMH. DSS (Restricted) shellfish direct harvesting condemnation area # 077-138 D (20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.140

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_GLF01A06 / Guilford Creek - Upper [TMDL] / Northeast of Town of Guilford. Upper portion of creek, from end of tidal waters downstream to end of DSS condemnation portion. Portion of CBP segment POCMH. DSS shellfish condemnation # 076-176 A (effective 20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.152
VAT-C10E_GLF02A06 / Guilford Creek - Lower / Northeast of Town of Guilford. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. DSS shellfish Restricted-condemnation direct harvesting condemnation # 076-176 A (effective 20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.106
VAT-C10E_GLF03A08 / Guilford Creek - Lower [No DSS] / Northeast of Town of Guilford. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation identified.	4A	Aquatic Plants (Macrophytes)	2006	L	0.460
VAT-C10E_GSH01A06 / Guard Shore Beach / In Old Cove (Beasley Bay). Located at Bailey Ridge, west of Bloxom. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation.	4A	Aquatic Plants (Macrophytes)	2006	L	0.026
VAT-C10E_HUN01A00 / Hunting Creek - Upper / W of Hopkins. Upper portion, from end of tidal waters downstream to end of DSS condemnation (downstream of Town of Hopkins). CBP segment POCMH. DSS shellfish direct harvesting condemnation # 077-138 B (effective 20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.194
VAT-C10E_HUN02A06 / Hunting Creek - Lower / West of Town of Hopkins. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. DSS (OPEN) shellfish direct harvesting condemnation # 077-138 (effective 20200715).	4A	Aquatic Plants (Macrophytes)	2006	L	0.648
VAT-C10E_MES01A06 / Messongo Creek - Upper / Located southeast of Marsh Market & start of Rec TMDL (213) . Running parallel with Rt 692 upstream to the end of tidal waters. POCMH. Upstream portion of DSS shellfish condemnation # 076-167 A (effective 20180725).	4A	Aquatic Plants (Macrophytes)	2006	L	0.042
VAT-C10E_MES02A06 / Messongo Creek - Middle [TMDL-06] / South of Town of Belinda. Portion of CBP segment POCMH. TMDL P# 732- SF. DSS Condemnation # 076-167 (effective 20180725).	4A	Aquatic Plants (Macrophytes)	2006	L	0.156
VAT-C10E_MES02B08 / Messongo Creek - Middle [No TMDL] / Located south of Saxis and Belinda Rd intersection. Portion of CBP segment POCMH. DSS Restricted condemnation # 076-167 (effective 20180725).	4A	Aquatic Plants (Macrophytes)	2006	L	0.341

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_MES03A06 / Messongo Creek - Lower / Located south of Saxis and Belinda Rd intersection downstream to the mouth. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation.	4A	Aquatic Plants (Macrophytes)	2006	L	0.858
VAT-C10E_MUD01A04 / Muddy Creek - Upper / Located southeast of Byrds Marsh and northeast of Town of Bloxom. From end of tidal waters downstream to Poulson Pt. Portion of CBP segment POCMH. DSS shellfish condemnation # 076-176 B (effective 20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.301
VAT-C10E_MUD02A06 / Muddy Creek - Lower / Located southeast of Byrds Marsh and northeast of Town of Bloxom. Lower portion of creek, Pettigrew Bend to end of DSS Open condemnation. Portion of CBP segment POCMH. DSS shellfish Restricted condemnation # 076-176 B (effective 2019081815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.048
VAT-C10E_MUD03A08 / Muddy Creek - Lower [No DSS] / Located southeast of Byrds Marsh and northeast of Town of Bloxom. Lower portion of creek, from end of DSS condemnation downstream to mouth. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation.	4A	Aquatic Plants (Macrophytes)	2006	L	0.060
VAT-C10E_STR01A08 / Starling Creek / Located on Saxis Island, southwest of Pocomoke Sound. Embayment at town of Saxis. From end of tidal waters downstream to end of DSS condemnation. Portion of CBP segment POCMH. DSS shellfish direct harvesting condemnation # 075-118 M1 (effective 20180725).	4A	Aquatic Plants (Macrophytes)	2006	L	0.091
VAT-C10E_YOU01A06 / Young Creek / Northeast of Town of Guilford and south of Jobs Island. Portion of CBP segment POCMH. DSS (OPEN) shellfish direct harvesting condemnation # 076-176 C (effective 20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.072
VAT-C10E_YOU02A20 / Lower - Young Creek / Northeast of Town of Guilford and south of Jobs Island. Portion of CBP segment POCMH. DSS Restricted-condemnation shellfish direct harvesting condemnation # 076-176 (effective 20190815).	4A	Aquatic Plants (Macrophytes)	2006	L	0.172
VAT-C10E_ZZZ02A06 / Unsegmented estuaries in C10E-POCMH [No DSS] / Evaluated non-segmented portions of C10E not contained within VACB-R01E-CB7S. Portion of CBP segment POCMH. No DSS shellfish direct harvesting condemnation area identified.	4A	Aquatic Plants (Macrophytes)	2006	L	2.865

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C10E_ZZZ03A22 / Unsegmented estuaries in C10E-POCMH [Restricted DSS] / Evaluated non-segmented portions of C10E not contained within VACB-R01E-CB7S. Portion of CBP segment POCHM. DSS shellfish Restricted direct harvesting condemnation.	4A	Aquatic Plants (Macrophytes)	2006	L	0.110
Chesapeake Bay segment POCHM (Pocomoke Sound)					
Aquatic Life			Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:			54.196		
Chesapeake Bay segment POCHM (Pocomoke Sound)					
Shallow-Water Submerged Aquatic Vegetation			Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:			54.196		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **POCOH-DO-BAY** Pocomoke River System CBP segment POCOH
(Pocomoke River)

Cause Location: This cause encompasses the entirety of the Pocomoke River System CBP segment POCOH. Virginia portion of CBP segment POCOH.

Cause City/County: Accomack County

Use(s): Aquatic Life; Open-Water Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4C

Cause Description: The Open-Water Aquatic Life Use is impaired based on failure to meet the dissolved oxygen criteria for Open Water - Summer.

The Open Water - Summer Dissolved Oxygen impairment for all the Pocomoke oligohaline segments (POCOH) (to include all tribs/creeks) will be assessed as Category 4C based on the conclusions from the Natural Conditions Assessment for the Pocomoke Sound completed in October 2010 (EPA approval email 11/3/2010). This Assessment Report concluded that the Pocomoke oligohaline segment's low dissolved oxygen conditions during the summer months are strongly influenced by natural conditions and the downstream estuarine condition.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C09E_BLB01A06 / Bulbeggan Creek / Located southeast of Pitts Neck area. From estuarine/riverine transition (end of tidal waters) downstream to mouth (confluence with Pocomoke Sound). Portion of CBP segment POCOH. No DSS condemnation or notice.	4C	Dissolved Oxygen	NA	NA	0.134
VAT-C09E_POC01A06 / Pocomoke River / Located northeast of Pitts Neck area, along VA/MD border. From VA/MD state line downstream to mouth (confluence with Pocomoke Sound) within VA. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	4C	Dissolved Oxygen	NA	NA	0.240
VAT-C09E_POC02A08 / Pocomoke Sound [C09 portion] / Pocomoke Sound downstream of the Pocomoke River (VA portion). Portion of CBP segment POCOH. Portion of DSS shellfish direct harvesting condemnation # 075-033 A (effective 20180725).	4C	Dissolved Oxygen	NA	NA	0.726
VAT-C09E_PTT01A06 / Pitts Creek / Located northeast of Pitts Neck area, along VA/MD border. From VA/MD state line downstream to mouth (confluence with Pocomoke River) within VA. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	4C	Dissolved Oxygen	NA	NA	0.127
VAT-C09E_PTT01B10 / Pitts Creek - Upper [Admin Cond] / Located northeast of Pitts Neck area, along VA/MD border. From VA/MD state line upstream to headwaters within VA at Dunns Swamp Road. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	4C	Dissolved Oxygen	NA	NA	0.069

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

(continued)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAT-C09E_ZZZ01A06 / Unsegmented tidal tributaries in C09E-POCOH / Evaluated non segmented portions of C09E. Portion of CBP segment POCOH. Portion of DSS shellfish direct harvesting condemnation # 075-033 (effective 20180725).	4C	Dissolved Oxygen	NA	NA	0.006
VAT-C10E_HLD01A06 / Holdens Creek - Upper / Located southeast of Joeys Neck area. From confluence Sandy Bottom Br downstream to 0.5 mi of station @ 7-HLD002.67. Portion of CBP segment POCOH. Portion of DSS condemnation # 075-033 A (effective 20180725).	4C	Dissolved Oxygen	NA	NA	0.034
VAT-C10E_HLD02A06 / Holdens Creek - Lower / Located southeast of Joeys Neck area. From 0.5 mi downstream of station @ 7-HLD002.67 downstream to mouth. Portion of CBP segment POCOH. Portion of DSS shellfish condemnation # 075-033 A (effective 20180725).	4C	Dissolved Oxygen	NA	NA	0.050
VAT-C10E_POC01A08 / Pocomoke Sound - Lower [C10 portion] / Pocomoke Sound downstream of the Pocomoke River (VA portion). Area adjacent to Holdens Creek. Portion of CBP segment POCOH. Portion of DSS shellfish direct harvesting condemnation # 075-033 A (effective 20180725).	4C	Dissolved Oxygen	NA	NA	1.452

Pocomoke River System CBP segment POCOH (Pocomoke River)

Aquatic Life	Dissolved Oxygen - Total Impaired Size by Water Type:	Estuary (Sq. Miles) 2.839	Reservoir (Acres)	River (Miles)
---------------------	---	---------------------------------	----------------------	------------------

Pocomoke River System CBP segment POCOH (Pocomoke River)

Open-Water Aquatic Life	Dissolved Oxygen - Total Impaired Size by Water Type:	Estuary (Sq. Miles) 2.839	Reservoir (Acres)	River (Miles)
--------------------------------	---	---------------------------------	----------------------	------------------

Sources: Natural Sources

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **TANMH-DO-BAY** Chesapeake Bay segment TANMH (Tangier Sound)

Cause Location: This cause encompasses the complete CBP segment TANMH.

Cause City/County: Accomack County

Use(s): Aquatic Life; Open-Water Aquatic Life

Causes(s)/VA Category: Dissolved Oxygen/4A

Cause Description: The 30-day dissolved oxygen criteria for open water use is not meeting for the 2022 assessment.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-C10E-TAN / Chesapeake Bay - VA portion of CBP Segment TANMH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment TANMH, located in the northern part of the Virginia mainstem Bay around Tangier Sound. HUC: 02080101	4A	Dissolved Oxygen	2006	L	118.980
VACB-C10E_TNN01A06 / Tangier North Channel and Adjacent Waters, DSS Area A and B. / Waters surrounding Tangier Island. Portion of CBP segment TANMH. DSS (ADMINISTRATIVE) shellfish condemnation # 078-086, section A effective 11/6/2013	4A	Dissolved Oxygen	2006	L	1.366
VACB-C10E_TNN01B06 / Tangier North Channel and Adjacent Waters, DSS Area C. / Waters surrounding Tangier Island. Portion of CBP segment TANMH. DSS (ADMINISTRATIVE) shellfish condemnation # 078-086, section B effective 11/6/2013	4A	Dissolved Oxygen	2006	L	0.039
VACB-C10E_TNN01C16 / Tangier North Channel and Adjacent Waters, Open waters / Waters surrounding Tangier Island. Portion of CBP segment TANMH. Open waters of the DSS cond # 078-86 eff 11/06/2013. Split from VACB-C10E_TNN01A06 (2016).	4A	Dissolved Oxygen	2006	L	0.196
VACB-C10E_TNN01D18 / Tyler Creek, Shanks Creek, Tangier Sound / Tyler Creek, Shanks Creek, Tangier Sound - Portion of CBP segment TANMH. Restricted waters of the DSS cond # 074-226 eff 2/26/2015. Split from VACB-C10E-TAN.	4A	Dissolved Oxygen	2006	L	2.169

Chesapeake Bay segment TANMH (Tangier Sound)

Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
122.75		

Chesapeake Bay segment TANMH (Tangier Sound)

Open-Water Aquatic Life

Dissolved Oxygen - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
122.75		

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **TANMH-SAV-BAY** Chesapeake Bay segment TANMH (Tangier Sound)

Cause Location: This cause encompasses the complete CBP segment TANMH.

Cause City/County: Accomack County

Use(s): Aquatic Life; Shallow-Water Submerged Aquatic Vegetation

Causes(s)/VA Category: Aquatic Plants (Macrophytes)/4A

Cause Description: The acres of submerged aquatic vegetation (SAV) mapped through aerial surveys do not meet the criteria. Submerged Aquatic Vegetation acres goal is 13,585 acres but only 70% of this goal was achieved in the most recent 3 years. There is insufficient data to assess the water clarity criteria.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VACB-C10E-TAN / Chesapeake Bay - VA portion of CBP Segment TANMH / This assessment unit is the mainstem Chesapeake Bay portion of Chesapeake Bay Program segment TANMH, located in the northern part of the Virginia mainstem Bay around Tangier Sound. HUC: 02080101	4A	Aquatic Plants (Macrophytes)	2006	L	118.980
VACB-C10E_TNN01A06 / Tangier North Channel and Adjacent Waters, DSS Area A and B. / Waters surrounding Tangier Island. Portion of CBP segment TANMH. DSS (ADMINISTRATIVE) shellfish condemnation # 078-086, section A effective 11/6/2013	4A	Aquatic Plants (Macrophytes)	2006	L	1.366
VACB-C10E_TNN01B06 / Tangier North Channel and Adjacent Waters, DSS Area C. / Waters surrounding Tangier Island. Portion of CBP segment TANMH. DSS (ADMINISTRATIVE) shellfish condemnation # 078-086, section B effective 11/6/2013	4A	Aquatic Plants (Macrophytes)	2006	L	0.039
VACB-C10E_TNN01C16 / Tangier North Channel and Adjacent Waters, Open waters / Waters surrounding Tangier Island. Portion of CBP segment TANMH. Open waters of the DSS cond # 078-86 eff 11/06/2013. Split from VACB-C10E_TNN01A06 (2016).	4A	Aquatic Plants (Macrophytes)	2006	L	0.196
VACB-C10E_TNN01D18 / Tyler Creek, Shanks Creek, Tangier Sound / Tyler Creek, Shanks Creek, Tangier Sound - Portion of CBP segment TANMH. Restricted waters of the DSS cond # 074-226 eff 2/26/2015. Split from VACB-C10E-TAN.	4A	Aquatic Plants (Macrophytes)	2006	L	2.169

Chesapeake Bay segment TANMH (Tangier Sound)

Aquatic Life

Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
122.75		

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

Chesapeake Bay segment TANMH (Tangier Sound)

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shallow-Water Submerged Aquatic Vegetation			
Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:	122.75		

Sources: Agriculture; Atmospheric Deposition - Nitrogen; Clean Sediments; Industrial Point Source Discharge; Internal Nutrient Recycling; Loss of Riparian Habitat; Municipal Point Source Discharges; Non-Point Source; Sediment Resuspension (Clean Sediment); Sources Outside State Jurisdiction or Borders; Wet Weather Discharges (Non-Point Source); Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)