



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

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

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

City / County: Accomack Co.	Chesapeake Bay - Co	Gloucester Co.	Lancaster Co.	Mathews Co.
Middlesex Co.	Norfolk City	Northampton Co.	Northumberland Co.	Poquoson City City
Virginia Beach City	York Co.			

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

The Chesapeake Bay and its tidal tributaries are included under the 12/13/2004 VDH Fish Consumption Advisories for PCBs. No more than 2 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-GWR007.97 in the Great Wicomico River
- 7-COC000.40 in Cockrell Creek
- 7-IND001.80 in Indian Creek
- 7-DYM000.00 in Dyer Creek
- 7-PNK019.85 in the Piankatank River
- 7-MLF002.45 in Milford Haven
- 7-WIN000.88 in Winter Harbor
- 7-EST002.65 in the East River
- 7-NOR003.65 in the North River
- 7-WAR005.77 in the Ware River

Chesapeake Bay and Tidal Tributaries

Fish Consumption

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
PCB in Fish Tissue - Total Impaired Size by Water Type:	1,825.760		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

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

Location: The nontidal mainstem of Crabbe Mill Stream.

City / County: Northumberland Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

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.

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.

Crabbe Mill Stream	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			3.90

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

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

Location: The nontidal mainstem of Crabbe Mill Stream.

City / County: Northumberland Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

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).

Crabbe Mill Stream	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			3.90

Sources:

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



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

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

Location: The nontidal mainstem of Crabbe Mill Stream.

City / County: Northumberland Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

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.

Crabbe Mill Stream

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

pH - Total Impaired Size by Water Type:

3.90

Sources:

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



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C01R-02-BEN **Dymer Creek**

Location: The nontidal mainstem of Dymer Creek

City / County: Lancaster Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

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.

Dymer Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			2.06

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C02R-01-BAC **Dragon Swamp**

Location: From the Route 602 bridge downstream to the tidal limit.

City / County: Gloucester Co. King And Queen Co. Middlesex Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2014 cycle, the segment was assessed as impaired of the Recreation Use due to an E. coli exceedance rate of 9/36 at 7-DRN010.48 (Route 603 bridge).

Dragon Swamp

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

12.37

Sources:

Non-Point Source



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C02R-03-HG

Dragon Swamp/Piankatank River

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.

City / County: Essex Co. Gloucester Co. King And Queen Co. Middlesex Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

Dragon Swamp and the Piankatank River are considered impaired of the Fish Consumption Use based on DEQ monitoring which has indicated elevated levels of mercury in largemouth bass.

Mercury exceedances at:

7-DRN003.40

7-DRN001.43

7-PNK017.47

7-PNK020.42

A portion of this area was considered fully supporting but threatened in 2002 based on these results. VDH subsequently issued a fish consumption advisory and the stream was downgraded to impaired.

In July 2005, VDH extended the Fish Consumption Advisory waterbody boundaries 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.

Dragon Swamp/Piankatank River

Fish Consumption

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

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

2.718

31.97

Sources:

Atmospheric Deposition -
Toxics

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

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

Location: Described in VDH Notice and Description of Shellfish Condemnation 035-076E, 5/22/2012

City / County: Gloucester Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

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.

Ferry Creek Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.084		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-10-EBEN Piankatank River

Location: Piankatank River/ Dragon Swamp tidal mainstem

City / County: Gloucester Co. Mathews Co. Middlesex Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Estuarine Bioassessments / 5A

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, during the 2008 cycle, estuarine probabilistic monitoring was conducted at Coastal 2000 station 7-PNK010.41. The data was assessed by DEQ's Central Office staff who assessed 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 will be expanded. The TMDL due date will be 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.

Piankatank River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Estuarine Bioassessments - Total Impaired Size by Water Type:	19.492		

Sources:

Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia	Contaminated Sediments	Source Unknown
--	------------------------	----------------



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C03E-16-BAC **Piankatank River**

Location: River's bend around Berkley Island

City / County: Middlesex Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

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.

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

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04E-53-BAC **Whites Creek**

Location: Whites Creek at Festival Beach

City / County: Mathews Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

During the 2012 cycle, Whites Creek at Festival Beach was impaired of the Recreation Use due to 7 short-term swimming advisories during the 2010 swim season. In addition, there is one exceedance of the bacteria geometric mean during the 2014 cycle.

Whites Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation	Enterococcus - Total Impaired Size by Water Type: 0.046		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04R-01-DO **East River**

Location: Nontidal mainstem of the East River.

City / County: Mathews Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

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.

East River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			0.59
Oxygen, Dissolved - Total Impaired Size by Water Type:			

Sources:

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



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C04R-01-PH **East River**

Location: Nontidal mainstem of the East River.

City / County: Mathews Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

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.

East River Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
pH - Total Impaired Size by Water Type:			0.59

Sources:

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



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-01-PCB

Chesapeake Bay & Tidal Tributaries VDH Fish Consumption Advisory for PCBs

Location: This cause encompasses the Chesapeake Bay & Tidal Tributaries within the lower bay.

City / County: Hampton City Poquoson City City York Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

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.

Chesapeake Bay & Tidal Tributaries VDH Fish Consumption Advisory for PCBs	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
PCB in Fish Tissue - Total Impaired Size by Water Type:	16.027		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-04-BAC2 **Poquoson River-Upper**

Location: This cause encompasses the area from Pilney Point Estates downstream to end of Calthrop Neck.

City / County: York Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use is impaired based on extrapolation of the exceedance of the criteria for Enterococcus bacteria at the upstream station 7-POQ004.12 (20 violates / 36 obs.) exceeding the swimming indicator criteria. 2010 IR revised TMDL ID and TMDL due date since not included in CD. C07E-04-BAC2 with 2018 TMDL date.

Not contained within the area of TMDL (Poquoson River, VAT-C07E-11-SF [25403], 8/2/2006).

Poquoson River-Upper

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Enterococcus - Total Impaired Size by Water Type:

0.121

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-11-SF2 **Poquoson River - Upper**

Location: This cause encompasses the area past confluence of Quarter March Cr downstream approx 0.8 mi.

City / County: York Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

DSS shellfish condemnation # 053-137 B (effective 20120823). Including Moores & Quarter March Creeks.

Shellfish impairment extended in 2008 IR. This area was not apart of the CD listing or the EPA approved TMDL in 8/2/2006 (TMDL ID VAT-C07E-11, 25403). Therefore a revised TMDL date and code will be assigned for the 2010 Assessment.

TMDL due in 2020 (or modification to Poquoson R. TMDL) with revised Cause Group Code C07E-11-SF2.

Poquoson River - Upper

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type: **0.121**

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-24-SF

**Unnamed Cove @ Crane & Adjacent Mouth Patricks Creek & Upper
Hodges Creek**

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 053-137 A, 8/23/2012.

City / County: York Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is impaired due to the DSS shellfish harvesting condemnation # 053-137A (20080320). Previously (2006 IR) listed as TMDL-ID: VAT-C07E-11. Not Covered under TMDL (25403) EPA approved for "Poquoson River" 8/2/2006 under VAT-C07E-11-SF.

Unnamed Cove @ Crane & Adjacent Mouth Patricks Creek & Upper Hodges Creek Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.063		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-25-SF

Lyons Creek - Upper, Middle and Lower

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 053-222 B, 8/23/2012.

City / County: Poquoson City City

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is not supporting due to DSS Shellfish condemnation.

Lyons Creek - Upper, Middle and Lower

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type: **0.070**

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **C07E-26-SF** **Floyds Bay**

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 053-222 D, 8/23/2012.

City / County: Poquoson City City

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is not supporting due to DSS Shellfish condemnation.

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

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-33-EBEN Northwest Br. Back River - Upper near Marsh Point

Location: This cause encompasses the impairment located in the Northwest Branch Back River - Upper portion near Marsh Point.
This cause encompasses the benthic community related to the ProbMon station 7-NWB002.18.

City / County: Hampton City Poquoson City City

Use(s): Aquatic Life

Cause(s) /

VA Category: Estuarine Bioassessments / 5A

The Aquatic Life Use is impaired based on failure to meet a statistical evaluation constituting an un-impacted benthic organism population per benthic community structure analysis. There is no source/stressor currently identified as source for the impairment

Northwest Br. Back River - Upper near Marsh Point

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Estuarine Bioassessments - Total Impaired Size by Water Type:	0.364		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-37-SF **Boathouse Creek-Upper**

Location: This cause encompasses the area from the end of tidal waters downstream 1/2 length of creek. CBP Segment MOBPH.

City / County: York Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfish Use is impaired based on the DSS Shellfish Condemnation # 053-221 A (effective date 20120823).

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

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-38-SF

Bennett Creek - Upper (DSS_06-IR)

Location: This cause encompasses the Bennett Creek upstream portion (S of Poquoson R mouth) tributary to Poquoson River. From end of tidal waters downstream 0.1mi. CBP Segment MOBPH.

City / County: Poquoson City City

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfish Use is impaired based on DSS Condemnation # 053-222 E (effective date 20120823).

Bennett Creek - Upper (DSS_06-IR)

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type:

0.039

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-40-SF Grunland Creek - Mouth

Location: This cause encompasses the South shore trib. to mainstem Back R. Adjacent to Grandview area. CBP Segment MOBPH

City / County: Hampton City

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is impaired based on DSS Condemnation # 054-215 C effective date 20111021.

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

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07E-41-SF Unsegmented estuaries in Back River - DSS

Location: This cause encompasses the non segmented areas of C07E. CBP Segment MOBPH.

City / County: Hampton City Poquoson City City York Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is impaired based on the DSS Condemnation # 054-021 B (effective date 20121107).

Unsegmented estuaries in Back River - DSS	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shellfishing			
Fecal Coliform - Total Impaired Size by Water Type:	0.097		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C07R-01-DO

Newmarket Creek - Lower Riverine

Location: This cause encompasses Newmarket Creek from 0.1 mi. below Chestnut Ave. downstream to 0.65 mi. below Aberdeen Rd. crossing. Lowermost riverine portion, prior to start of tidal influence. In area of Mount Olive Cemetery.

City / County: Hampton City

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life impairment is retained for 2014 IR based on dissolved oxygen concentrations (3 violates / 8 obs.) below the minimum criteria (4.0 mg/L). Possibly related to downstream DO impairment (TMDL_ID VAT-C07E-03). Monitoring at DEQ (AQM) station @ 7-NEW005.44 outside IR data window. Within area of dense residential and commercial development.

Newmarket Creek - Lower Riverine

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Oxygen, Dissolved - Total Impaired Size by Water Type:

2.01

Sources:

Municipal (Urbanized High
Density Area)

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08E-01-EBEN Lynnhaven River System

Location: This cause encompasses the entirety of the Lynnhaven River CBP-BIBI segment LYNPHA and tributaries. DSS # 070-025 A (effective 20120412).

City / County: Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Estuarine Bioassessments / 5A

The Aquatic Life Use is impaired based on failure to meet a statistical evaluation constituting an un-impacted benthic organism population per CBP (Benthic-BIBI) analysis. The source/stressor tool identified sediment contaminants as source for the impairment.

Lynnhaven River System

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Estuarine Bioassessments - Total Impaired Size by Water Type:	7.977		

Sources:

Contaminated Sediments



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08E-01-PCB

Eastern Branch -Lynnhaven River System VDH Fish Consumption Advisory

Location: This cause encompasses the Eastern Branch of the Lynnhaven River System and Chesapeake Bay Beaches.

City / County: Norfolk City Virginia Beach City

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

The Fish Consumption Use is impaired based on the VDH fish consumption advisory for Chesapeake Bay and tidal tributaries for PCBs issued 12/13/04 and updated 10/07/2009.

Eastern Branch -Lynnhaven River System VDH Fish Consumption Advisory

Fish Consumption

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

PCB in Fish Tissue - Total Impaired Size by Water Type:	3.538
---	--------------

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08E-14-BAC **Sara Constance Park, East End**

Location: This cause encompasses the area located along Chesapeake Bay, in Norfolk. Portion of CBP segment CB8PH. No DSS shellfish direct harvesting condemnations present.

City / County: Norfolk City Virginia Beach City

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use is impaired based on data from the VDH Beach Monitoring Program geometric mean violation, swimming advisories and joint VDH-DEQ assessment review at Sara Constance Park VDH station VA742733. Station exceeds the monthly geometric mean 8/2011.

Sara Constance Park, East End

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Enterococcus - Total Impaired Size by Water Type:

0.092

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-01-CHLA **Lake Whitehurst**

Location: This cause encompasses the entirety of Lake Whitehurst, from Rt. 60 south to the border of Norfolk Intl Airport. City of Norfolk PWS.

City / County: Norfolk City

Use(s): Aquatic Life

Cause(s) /

VA Category: Chlorophyll-a / 5A

Aquatic Life Use is impaired for nutrients. Lake Whitehurst pooled nutrient results: 2 viol / 2 obs Chla & TP 2008, 2011 (IM).
Nutrients Impaired- Both Chla & TP assessed since algaecide was applied during monitoring year.

Lake Whitehurst	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Chlorophyll-a - Total Impaired Size by Water Type:			481.42

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-01-DO **Lake Whitehurst**

Location: This cause encompasses the entirety of Lake Whitehurst, from Rt. 60 south to the border of Norfolk Intl Airport. City of Norfolk PWS.

City / County: Norfolk City

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use is not supporting due to pooled dissolved oxygen concentration measurements (28 violates / 259 obs.) below the minimum criteria (4.0 mg/L).

Lake Whitehurst	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			481.42

Sources:

Residential Districts Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-01-HG **Lake Whitehurst**

Location: This cause encompasses the entirety of Lake Whitehurst, from Rt. 60 south to the border of Norfolk Intl Airport. City of Norfolk PWS.

City / County: Norfolk City

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

The Fish Consumption Use is impaired based on the VDH fish consumption advisory for Mercury for Lake Whitehurst issued 12/13/04. DEQ (CORE) monitoring at 7-LAW001.00 for fish tissue results have an observed effect for Hg.

Lake Whitehurst	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:			481.42

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-01-PCB

Lake Whitehurst VDH Fish Consumption Advisory

Location: This cause encompasses the entirety of Lake Whitehurst, from Rt. 60 south to the border of Norfolk Intl Airport. City of Norfolk PWS.

City / County: Norfolk City

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

The Fish Consumption Use is impaired based on the VDH fish consumption advisory for PCBs for Lake Whitehurst issued 12/13/04 modified 10/7/09. DEQ (CORE) monitoring at 7-LAW001.00 for fish tissue results exceeded DEQ-SV for PCBs.

Lake Whitehurst VDH Fish Consumption Advisory

Fish Consumption

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

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

481.42

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-01-TP

Lake Whitehurst

Location: This cause encompasses the entirety of Lake Whitehurst, from Rt. 60 south to the border of Norfolk Intl Airport. City of Norfolk PWS.

City / County: Norfolk City

Use(s): Aquatic Life

Cause(s) /

VA Category: Phosphorus (Total) / 5A

Aquatic Life Use is impaired for nutrients. Lake Whitehurst pooled nutrient results: 2 viol / 2 obs Chla & TP 2008, 2011 (IM).
Nutrients Impaired- Both Chla & TP assessed since algaecide was applied during monitoring year.

Lake Whitehurst	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Phosphorus (Total) - Total Impaired Size by Water Type:			481.42

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-03-CHLA **Little Creek Reservoir**

Location: This cause encompasses the upper portion of the lake, beginning at Rt 13 (RM 1.0) downstream to north, ends at lake terminus @ route 60 (RM 0.0). City of Norfolk PWS.

City / County: Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Chlorophyll-a / 5A

Little Creek is also impaired for nutrients. Both Chla and TP do not support ALUS. Little Creek Reservoir pooled nutrients results: 2 viol / 2 obs Chla & TP 2008, 2011 (IM); Both TP and Chla assessed since algaecide was applied during the monitoring year.

Little Creek Reservoir

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Chlorophyll-a - Total Impaired Size by Water Type:

199.79

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-03-DO **Little Creek Reservoir**

Location: This cause encompasses the upper portion of the lake, beginning at Rt 13 (RM 1.0) downstream to north, ends at lake terminus @ route 60 (RM 0.0). City of Norfolk PWS.

City / County: Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use impairment is for dissolved oxygen concentrations below the minimum criteria (4.0 mg/L) as reported by observations pooled for 7-LTR000.04, 7-LTR000.95 and LC1 (20 violates / 126 obs.) sampled during the current cycle. Individual station observations include 7-LTR000.04 (8violates / 39 obs.), 7-LTR000.95 (5 violates / 29obs.) and LC1 (7 violates / 58 obs).

Little Creek Reservoir

Aquatic Life

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

Oxygen, Dissolved - Total Impaired Size by Water Type:

199.79

Sources:

Residential Districts

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-03-PCB

Little Creek Reservoir VDH Fish Consumption Advisory

Location: This cause encompasses the upper portion of the lake, beginning at Rt 13 (RM 1.0) downstream to north, ends at lake terminus @ route 60 (RM 0.0). City of Norfolk PWS.

City / County: Virginia Beach City

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

The Fish Consumption Use is impaired based on the VDH fish consumption advisory for PCBs for Little Creek Reservoir issued 12/13/04.

Little Creek Reservoir VDH Fish Consumption Advisory

Fish Consumption

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

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

199.79

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-03-TP **Little Creek Reservoir**

Location: This cause encompasses the upper portion of the lake, beginning at Rt 13 (RM 1.0) downstream to north, ends at lake terminus @ route 60 (RM 0.0). City of Norfolk PWS.

City / County: Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Phosphorus (Total) / 5A

Little Creek is also impaired for nutrients. Both Chla and TP do not support ALUS. Little Creek Reservoir pooled nutrients results: 2 viol / 2 obs Chla & TP 2008, 2011 (IM); Both TP and Chla assessed since algaecide was applied during the monitoring year.

Little Creek Reservoir	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Phosphorus (Total) - Total Impaired Size by Water Type:			199.79

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-04-CHLA **Lake Smith**

Location: This cause encompasses the entirety of Lake Smith. City of Norfolk PWS.

City / County: Norfolk City Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Chlorophyll-a / 5A

Aquatic Life Use is impaired for nutrients. Lake Smith pooled nutrients results: 2 viol / 2 obs Chla & TP (2008, 2011)
Nutrients Impaired-Both TP and Chla assessed since algaecide was applied during monitoring year.

Lake Smith Aquatic Life	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Chlorophyll-a - Total Impaired Size by Water Type:		184.89	

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-04-DO **Lake Smith**

Location: This cause encompasses the entirety of Lake Smith. City of Norfolk PWS.

City / County: Norfolk City Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use is impaired due to dissolved oxygen concentration measurements below the minimum criteria (4.0 mg/L). Pooled stations include 7-LAS00.06, 7-LAS001.03, and SM1. Lake Smith's pooled DO violation rate is 13/118 = 11%. Individual station exceedances for DO include 7-LAS00.06 (5/35), 7-LAS001.03 (4/27), SM1 (4/56). Pooled pH data supported use with a lake violation rate of 2/107= 1.9%. This lake is non-stratified.

Lake Smith	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			184.89

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-04-TP Lake Smith

Location: This cause encompasses the entirety of Lake Smith. City of Norfolk PWS.

City / County: Norfolk City Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Phosphorus (Total) / 5A

Aquatic Life Use is impaired for nutrients.Lake Smith pooled nutrients results: 2 viol / 2 obs Chla & TP (2008, 2011)
Nutrients Impaired-Both TP and Chla assessed since algaecide was applied during monitoring year.

Lake Smith	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Phosphorus (Total) - Total Impaired Size by Water Type:			184.89

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-06-HG

Lake Trashmore - Western Pond VDH Fish Consumption Advisory for Mercury

Location: This cause encompasses the entirety of Lake Trashmore - Western Pond. Includes western portion of dual ponds lake system, pond on eastern side of Mt. Trashmore is not included in VDH advisory.

City / County: Virginia Beach City

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

The Fish Consumption Use is impaired based on the VDH fish consumption advisory (Carp and Largemouth Bass) for mercury and PCBs fish tissue contamination (issued 9/30/04 for Hg, 12/13/04 for PCBs) and DEQ (CORE) monitoring at 7-MTL000.20 for fish tissue results exceeded DEQ-SV for Hg and PCBs.08-IM, FT_PCB Largemouth Bass, Perch, Carp, Gizzard Shad, Walleye; 08-IM, FT_Met-Hg Largemouth Bass, Perch

Lake Trashmore - Western Pond VDH Fish Consumption Advisory for Mercury

Fish Consumption

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

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

54.39

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-06-PCB

Lake Trashmore - Western Pond VDH Fish Consumption Advisory for PCBs

Location: This cause encompasses the entirety of Lake Trashmore - Western Pond. Includes western portion of dual ponds lake system, pond on eastern side of Mt. Trashmore is not included in VDH advisory.

City / County: Virginia Beach City

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

The Fish Consumption Use is impaired based on the VDH fish consumption ban (for Carp) and advisory (for Yellow Perch) for PCBs fish tissue contamination issued 12/13/04. DEQ (CORE) monitoring at 7-LAW001.00 for fish tissue results exceeded DEQ-SV for Hg and PCBs.08-IM, FT_PCB Largemouth Bass, Perch, Carp, Gizzard Shad, Walleye; 08-IM, FT_Met-Hg Largemouth Bass, Perch

Lake Trashmore - Western Pond VDH Fish Consumption Advisory for PCBs

Fish Consumption

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

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

54.39

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C08L-07-DO Lake Wright

Location: This cause encompasses the entirety of Lake Wright near South of Norfolk Intl. Airport, south of Rt I-64 adjacent to USAA Office Park. Sampled by City of Norfolk as PWS.

City / County: Norfolk City

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use is impaired due to exceedance of the dissolved oxygen standard measurement below the minimum criteria (4.0 mg/L). Station WRI sampled by City of Norfolk Department of Utilities has 5 viol / 21 obs.

Lake Wright	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			15.62

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C09R-02-BAC Unnamed tributary to Pitts Creek

Location: This cause encompasses the riverine portion of this tributary to Pitts Creek. Includes unnamed tributary (south bank) of this unnamed tributary to Pitts Creek. Located northwest of New Church in Accomack County.

City / County: Accomack Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

The Recreation Use is impaired (10 violate / 36 obs.) at station 7-XAE001.42 due to exceedance of the instantaneous criteria for E. coli bacteria. Previous (2006 IR) Use Flag ID = VAT-C09R-02. For 2006 IR mistakenly coded as VAT-C09R-01, the FC parameter was not included in the CD (Attachment B).

Unnamed tributary to Pitts Creek

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

7.50

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C09R-02-PH

Unnamed tributary to Pitts Creek

Location: This cause encompasses the riverine portion of this tributary to Pitts Creek. Includes unnamed tributary (south bank) of this unnamed tributary to Pitts Creek. Located northwest of New Church in Accomack County.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5A

The Aquatic Life Use is impaired due to low pH (6 violates / 36 obs.; VAT-C09R-02) concentrations at station 7-XAE001.42, which exceed the minimum criteria for this parameter. Although pH impairment from 1998 303d was delisted in the 2004 IR, more recent data indicates impairment and need to re-add pH again as impairment to the TMDL listing. Upstream discharge from Tyson Foods 001 may have impact on this impairment. Also need to investigate if natural conditions (leaf litter/organic content) may be the cause of the low pH.

Unnamed tributary to Pitts Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

pH - Total Impaired Size by Water Type:

7.50

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C10E-02-BAC Muddy Creek - Upper

Location: This cause encompasses the upper portion of Muddy Creek, from end of tidal waters downstream to Pettigrew Bend. Portion of CBP segment POCMH.

City / County: Accomack Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use is impairment is retained for 2014 IR. Data within assessment window is from 2005 & 2006. Enterococcus bacteria data from 2010 at DEQ AQM station @ 7-MUD002.29 (3 viol / 15 obs.).

Muddy Creek - Upper

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.214		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C10R-03-BEN Guilford Creek

Location: This cause encompasses Guilford Creek, from confluence of two branches west of Rt 316 downstream to Rt 658 crossing.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impaired due to impacts to the stream's benthic population. Assessment is based on biological benthic monitoring noting MI [MI: S&F 05,06] at DEQ (BIO) station @ 7-GLF003.77.

Guilford Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			0.85

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C11E-15-SF

Matchotank Creek - Upper

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 080-013 C (effective 20121211).

City / County: Accomack Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is impaired due to the DSS shellfish direct harvesting condemnation # 080-013 C (effective 20121211).
No TMDL.

Matchotank Creek - Upper

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type:

0.069

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C11E-20-SF

Parkers Creek - Upper & Middle

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 080-013 C (effective 20121211).

City / County: Accomack Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is not supporting due to DSS shellfish direct harvesting condemnation. No TMDL.

Parkers Creek - Upper & Middle

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type: **0.035**

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C11R-01-BAC Joynes Branch

Location: This cause encompasses Joynes Branch, eastern riverine tributary to the Central Branch of Onancock Creek

City / County: Accomack Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

The Recreation Use is impaired due to exceedance of the criteria for E. coli bacteria (4 violates / 9 obs.) at DEQ (AQM) station @ 7-JOY000.59.

Joynes Branch

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

2.37

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C12R-01-BEN Taylor Creek

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.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impaired due to impacts to the stream's benthic population. Assessment is based on biological benthic monitoring noting [VI:F-10 ; MI: S-10] at DEQ (BIO) station @ 7-TAY003.11. 2006 IR Use ID = VAT-C12R-01.

Taylor Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			0.90

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C12R-02-BEN Bull Branch

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.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impairment is retained due to impacts to the stream's benthic population. 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.

Bull Branch	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			2.25

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: C13R-01-BEN Taylor Branch - Occohannock Creek

Location: This cause encompasses Taylor Branch, from the confluence of two branches upstream of station downstream to the confluence with Occohannock Creek.

City / County: Accomack Co. Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

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. Previous monitoring in 2001 was impaired @ 7-TLR000.70 at Rt 609 crossing of Taylor Branch.

Taylor Branch - Occohannock Creek

Aquatic Life

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

			2.31
--	--	--	-------------

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D01E-02-DO **Little Mosquito Creek**

Location: This cause encompasses the upper and lower portions of the Creek.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use is impaired based on DO data that exceed the criteria for this parameter at both upper and lower portions of Little Mosquito Creek. The lower portion is impaired for DO with (6 violate / 35 obs.). The data to assess the Aquatic Life Use is extrapolated from downstream station (DEQ-AQM station @ 7-LTM000.80).

Little Mosquito Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Oxygen, Dissolved - Total Impaired Size by Water Type:	0.208		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D01E-03-BAC Powells Bay

Location: This cause encompasses the entirety of Powells Bay. NW of Wallops Island, between Watts and Bogues Bays.

City / County: Accomack Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreational Use impairment is maintained for this assessment. Three data points from 2005 are supporting Enterococci. No new data since listing station therefore segment will remain impaired until new data is collected.

Powells Bay Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.596		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D01E-04-DO **Swan Gut Creek**

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.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use will remain impaired for the 2014 Assessment. Data was collected within Assessment window in year 2012. Five surface samples were collected. Will wait for additional monitoring to propose for delist of DO. Current DO violations are 0 / 5. Previous violations for DO impairment (1 violates / 12 obs.) below the criteria minimum at DEQ (AQM) station @ 7-SGT002.46.

Swan Gut Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Oxygen, Dissolved - Total Impaired Size by Water Type:

0.100

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02E-01-DO Assawoman Creek

Location: This cause encompasses the entirety of Assawoman Creek. This Creek is North of Assawoman Island and discharges to Womans Bay.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use is impaired based on DO concentrations that exceed the criteria for this parameter with 7 violates/ 35 obs. At Station 7-ASW003.36. The upper portion of Assawoman Creek assessed using downstream monitoring at Station 7-ASW003.36.

Assawoman Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Oxygen, Dissolved - Total Impaired Size by Water Type:	0.136		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D02E-11-SF **Little Cat Creek**

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 099-135B (effective 2005-12-12).

City / County: Accomack Co.

Use(s): Shellfishing

Cause(s) /
VA Category: Fecal Coliform / 5B

The Shellfishing Use is not supporting with DSS shellfish harvesting condemnation # 099-135B (effective 2005-12-12).

Little Cat Creek Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:		0.096	

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03E-02-BAC Finney Creek - Upper

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).

City / County: Accomack Co.

Use(s): Recreation

Cause(s) /

VA Category: Fecal Coliform / 5A

The Recreation Use is impaired based on Fecal Coliform data that is older than 5 years. Need Enterococci data.

Finney Creek - Upper

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:	0.002		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03E-07-BAC Wachapreague Channel

Location: This cause encompasses a portion of Wachapreague Channel. Portion below Bunting Point Road to boat launch. Segment around area at Wachapreague Harbor.

City / County: Accomack Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use is impaired based on the Enterococci concentrations that exceed the swimming criteria indicator (2 violates/ 9 obs.) at Station 7-WAS003.26.

Wachapreague Channel

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.032		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03E-08-DO

Northam Creek

Location: This cause encompasses a portion of Northam narrows between Hog Neck Creek and Mud Narrows, below Assawoman Creek.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use impairment is retained due to dissolved oxygen concentrations from 2008 Assessment (3 violates / 3 obs.) below the criteria minimum.

Northam Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Oxygen, Dissolved - Total Impaired Size by Water Type:	0.028		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03E-14-SF **Finney Creek - Lower**

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 097-219 A, 4/26/2011.

City / County: Accomack Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

Shellfish Use is impaired based on Condemnation # 097-219 effective date 20110426.

Finney Creek - Lower Shellfishing	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:		0.286	

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-02-BAC Gargathy Creek

Location: This cause encompasses the Riverine portion of Gargathy Creek, from headwaters downstream to beginning of tidal waters. Located southeast of Nelsonia.

City / County: Accomack Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

The Recreation Use impairment is retained from 2004 list date for Fecal Coliform. No bacteria data within assessment window.

Gargathy Creek Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli - Total Impaired Size by Water Type:			2.83

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-02-BEN Gargathy Creek

Location: This cause encompasses the Riverine portion of Gargathy Creek, from headwaters downstream to beginning of tidal waters. Located southeast of Nelsonia.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impaired for benthics. DEQ Streams Benthic-Macroinvertebrate Bioassessments-VCPMI. The VCPMI shows seasonal effects, the station has good fall scores and fair spring scores. VCPMI at station 7-GAR006.01 [2010_IM: S=21.4, F=51.2].

Gargathy Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:

2.83

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-03-BEN **Ross Branch**

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.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

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 [2012: IM F=29.3, 2010_IM: 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.

Ross Branch	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			3.20

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-04-BEN

Unnamed tributary to Folly Creek

Location: This cause encompasses the headwaters downstream to start of tidal waters. Located east of Accomack, near Edge Hill Cemetery.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impaired based on benthic VCPMI scores. Benthic population impacts were recorded at the following sample events: 7-XDE000.40 - VCPMI [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.

Unnamed tributary to Folly Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:

1.54

Sources:

Leaking Underground
Storage Tanks

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D03R-05-BEN Rattrap Creek

Location: This cause encompasses the end of Finneys Creek near Locustville. Near Intersection of Drummond Rd and Locustville Rd, approx 2.6 mi.

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impaired based on the streams Benthic population as recorded at the following sample event: 7-RTT000.49 with VCPMI [2010_IM: S=23.2, F=26.8].

Rattrap Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:

2.73

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-01-BAC Red Bank Creek - Middle & Lower

Location: This cause encompasses the middle portion of Red Bank Creek that is within the end of Route 617 at Public Boat Landing to confluence with Phillips Creek. Tributary to Hog Island Bay.

City / County: Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use is impaired based on Enterococci concentrations that exceed the swimming criteria indicator (3 violates/ 9 obs.). Assessment extrapolated from downstream station and data is outside assessment window.

Red Bank Creek - Middle & Lower

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.029		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-01-DO Red Bank Creek

Location: This cause encompasses all portions of Red Bank Creek. Tributary to Hog Island Bay.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

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).

Red Bank Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Oxygen, Dissolved - Total Impaired Size by Water Type: **0.023**

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-02-DO

Unnamed tributary to Red Bank Creek

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 condemnation

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

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 violates / 4 obs.) below the criteria minimum (4.0 mg/l).

Unnamed tributary to Red Bank Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Oxygen, Dissolved - Total Impaired Size by Water Type:	0.009		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-05-BAC Machipongo River

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).

City / County: Accomack Co. Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use is impaired based on E. coli concentration exceed the swimming criteria indicator at station 7-MAC008.55 (2 violates/ 15 obs.).

Machipongo River

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Enterococcus - Total Impaired Size by Water Type: **0.314**

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04E-05-SF Machipongo River

Location: Described in VDH Notice and Description of Shellfish Direct Harvesting Condemnation #096-218A (effective date 2006-10-10).

City / County: Accomack Co. Northampton Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is not supporting with DSS shellfish condemnation #096-218A (effective date 2006-10-10).

Machipongo River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shellfishing			
Fecal Coliform - Total Impaired Size by Water Type:			0.314

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04R-01-BAC Red Bank Creek

Location: This cause encompasses the area from headwaters downstream to end of tidal waters. Southeast of Marionville

City / County: Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Fecal Coliform / 5A

The Recreation Use is impaired (2006 IR) due to exceedance of the instantaneous criteria for fecal coliform at station 7-RBC003.87 (2 violates / 3 obs.)

Red Bank Creek

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type:

1.36

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04R-03-BEN Frogstool Branch

Location: This cause encompasses the area near Red Hill.

City / County: Accomack Co. Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Aquatic Life Use is impaired based on Benthic IM at Station 7-FRB001.94. VCPMI [2010_IM: S=24.9, F=38.8]. Further testing may help in determining whether impairment is due to anthropogenic Vs. seasonal or flow effects.

Frogstool Branch	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			4.27

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D04R-04-BEN **UT to Mill Creek**

Location: This cause encompasses the Unnamed trib to Mill Creek Stream. Stream is east of Treherneville crossing over Route 600.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

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.

UT to Mill Creek

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:

1.48

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05E-01-HG

Oyster Slip (Harbor) - Upper

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.

City / County: Northampton Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

The Fish Consumption is impaired based on Fish Tissue data collected for Mercury in Sandbar Shark in 2008.

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



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05R-01-BAC **Taylor Creek**

Location: This cause encompasses area from Penn Central RR crossing downstream to impoundment 0.1 mi. downstream of station. Located northeast of Simpkins.

City / County: Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Fecal Coliform / 5A

The Recreation Use is impaired based on E. coli exceedance of the swimming criteria (10 violates / 11 obs.).

Taylor Creek Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:			1.26

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05R-02-BAC **Holt Creek**

Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Martins Siding.

City / County: Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

The Recreation Use is impairment is retained in 2014 with E. coli concentrations exceeding the instantaneous swimming indicator criteria with 2 / 5 and previously with 4 violates/ 12 obs.

Holt Creek

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

1.74

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05R-03-BAC

Holt Creek Unnamed Tributary

Location: This cause encompasses the area from Penn Central RR crossing near headwaters downstream to confluence with Holt Creek. Located east of Martins Siding.

City / County: Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

The Recreation Use impairment is retained based on Fecal Coliform data. Current E.coli data collected is 1 violates / 1 obs. Previous (2006 IR) TMDL ID = VAT-D05R-03.

Holt Creek Unnamed Tributary

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

1.42

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D05R-03-BEN **Holt Creek Unnamed Tributary**

Location: This cause encompasses the area from Penn Central RR crossing near headwaters downstream to confluence with Holt Creek. Located east of Martins Siding.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impaired based on the benthic data collected at 7-XDI000.88 : IM VCPMI [2009_IM: S=8.6, F=48.4]

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.

Holt Creek Unnamed Tributary

Aquatic Life

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

Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:

1.42

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06E-01-DO **Magothy Bay - Lower**

Location: This cause encompasses the area east of Skidmore Island.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life use is impaired based on data from 2008 Assessment for the DO concentration exceeding the criteria for this parameter (4 violates / 21 obs.). Now data from 01 and 02 drop out therefore 2 /5 violate. Can not delist DO at Station 7-MAG004.

Magothy Bay - Lower

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Oxygen, Dissolved - Total Impaired Size by Water Type:	0.037		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06E-02-PCB Raccoon Creek

Location: This cause encompasses Raccoon Creek. The area southwest of Magothy Bay.

City / County: Northampton Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

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.

Raccoon Creek

Fish Consumption

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

PCB in Fish Tissue - Total Impaired Size by Water Type: **0.004**

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: **D06R-01-PH** **Mill Creek**

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.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5A

The Aquatic Life use is impaired based on pH concentrations exceed the criteria for this parameter (3 violates / 10 obs.).

Mill Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			2.23

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06R-02-BAC Narrow Channel Branch

Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Bayview.

City / County: Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

The Recreation Use is impaired. In 2006 Fecal Coliform exceeded the Recreational Std with 2 violates / 2 obs. Data collected within 2014 IR window violates the E. coli standard with 3 violations / 5 observations. The TMDL due of 2016 will be maintained.

Narrow Channel Branch

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

1.84

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06R-02-BEN Narrow Channel Branch

Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Bayview.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use impairment is retained for 2014 Assessment. No new data within the 2014 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).

Narrow Channel Branch

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:

1.84

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06R-02-DO

Narrow Channel Branch

Location: This cause encompasses the area from headwaters downstream to start of tidal waters. Located east of Bayview.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use is impaired based on 2011 and 2012 data for DO that exceed the WQS with 2 viol/ 6 obs. Additional monitoring is requested.

Narrow Channel Branch

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Oxygen, Dissolved - Total Impaired Size by Water Type:

1.84

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06R-03-BAC Tommy's Ditch

Location: This cause encompasses the entirety of Tommy's Ditch west of Kiptopeke State Park.

City / County: Northampton Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

The Recreation Use is impaired based on the E. coli exceedance of the swimming criteria with 3 violates / 8 obs.

Tommy's Ditch	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			1.44

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D06R-03-DO Tommy's Ditch

Location: This cause encompasses the entirety of Tommy's Ditch west of Kiptopeke State Park.

City / County: Northampton Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life Use is impaired based on the Dissolved Oxygen concentrations exceed the criteria for this parameter (2 violates / 4 obs.).

Tommy's Ditch

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Oxygen, Dissolved - Total Impaired Size by Water Type:

1.44

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-02-BAC Lake Rudee - Upper

Location: This cause encompasses the upper portion of Lake Rudee, from end of Owl Creek downstream to approx. RM 0.4 (upstream of confluence of Lake Holly with Rudee Inlet canal).

City / County: Virginia Beach City

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use impairment is retained for the 2014 Assessment. Data from the 2012 IR was collected in 2005 & 2006. Listing impairments dropped off for this assessment. Now data from monitoring in 2012 have 0 viol / 7 obs. But a larger data set is needed to determine if Recreational Use can be delisted.

Lake Rudee - Upper

Recreation

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Enterococcus - Total Impaired Size by Water Type:	0.089		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-02-SF

Lake Rudee - Upper

Location: Described in VDH Notice and Description of Shellfish Direct Harvesting Condemnation # 073-074A (effective 2006-08-29).

City / County: Virginia Beach City

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is not supporting with DSS shellfish condemnation # 073-074A (effective 2006-08-29)

Lake Rudee - Upper

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type:

0.089

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-04-BAC **Owl Creek - Upper & Lower**

Location: This cause encompasses the Headwaters of Owl Creek to tributary to Lake Rudee, located west of Lake Christine.

City / County: Virginia Beach City

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

The Recreation Use is impaired due to Enterococcus bacteria concentrations exceeding (2 violates / 7 obs.) TMDL due date same as original FC impairment.

Owl Creek - Upper & Lower

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Enterococcus - Total Impaired Size by Water Type: **0.022**

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-04-DO

Owl Creek - Upper & Lower

Location: This cause encompasses the Headwaters of Owl Creek to tributary to Lake Rudee, located west of Lake Christine.

City / County: Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life use is impaired based on the dissolved oxygen concentrations exceed the criteria for this parameter at Upper segment (2 violates / 7 obs.) and Lower segment (1 viol. / 7 obs.).

Owl Creek - Upper & Lower

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Oxygen, Dissolved - Total Impaired Size by Water Type:

0.022

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-04-SF

Owl Creek - Upper & Lower

Location: Described in VDH Notice and Description of Shellfish Direct Harvesting Condemnation # 073-074A (effective 2006-08-29).

City / County: Virginia Beach City

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is not supporting with DSS shellfish condemnation # 073-074A (effective 2006-08-29).

Owl Creek - Upper & Lower

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type:

0.022

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-10-DO **Lake Wesley**

Location: This cause encompasses Lake Wesley the Upstream Branches.

City / County: Virginia Beach City

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The ALUS impairment is maintained. The 2012 IR DO impairment was based on 3 viol / 16 obs. Most impairments were associated with 2005 data. Current data within 2014 IR is 0 viol / 7 obs. Need additional data to confirm WQS for ALUS is being met at DEQ (AQM) station @ 7-LAE000.20.

Lake Wesley

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Oxygen, Dissolved - Total Impaired Size by Water Type:	0.034		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2014

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code: D07E-10-SF

Lake Rudee - Lower and Lake Wesley

Location: Described in VDH Notice and Description of Shellfish Condemnation Number 073-074 A, 8/29/2006.

City / County: Virginia Beach City

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfish Use is impaired based on DSS Condemnation # 073-074 A effective date 8-29-2006.

Lake Rudee - Lower and Lake Wesley

Shellfishing

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Fecal Coliform - Total Impaired Size by Water Type:

0.060

Sources:

Source Unknown