List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Barrows Run**

TMDL Group ID: **60074**

VAN-E02R_BRW01A06	Barrows Run	FAUQUIER CO	Segment begins at the headwaters of Barrows Run and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment	4.93 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60074	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-BRW000.29) at Spring Drive to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Bay Segment RPPTF**

TMDL Group ID: **60127**

VAN-E20E_RPP01A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the outlet of waterbody VAN-E20E. This segment represents the upper reach of VAN-E21E_RPP05A02. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.19 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**	

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**

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)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Bay Segment RPPTF**

TMDL Group ID: **60127**

Sources: Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAN-E20E_RPP02A02 **Rappahannock River** SPOTSYLVANIA CO, STAFFORD CO

Segment begins at the confluence with Deep Run and continues downstream until the confluence with Massaponax Creek. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.23 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**	

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAN-E20E_RPP03A02 **Rappahannock River** FREDERICKSBURG CITY, STAFFORD CO

Segment begins at the fall line at Route One and continues downstream until the confluence with Deep Run. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.21 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**	

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Clean Sediments

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Bay Segment RPPTF**

TMDL Group ID: **60127**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	60127	**2006**	**2010**

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAN-E21E_MIC01A06	**Mill Creek**	CAROLINE CO	Segment includes all tidal waters of Mill Creek. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.21 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**	

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	60127	**2006**	**2010**

Sources: Agriculture
Atmospheric Deposition - Nitrogen

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Bay Segment RPPTF**

TMDL Group ID: **60127**

Sources: Clean Sediments
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAN-E21E_RPP01A02 **Rappahannock River** CAROLINE CO, KING GEORGE CO

Segment begins at the confluence with Mill Creek, at rivermile 78.94, and continues downstream until immediately upstream of Devils Elbow, at rivermile 70.52.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	4.50 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**	

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Bay Segment RPPTF**

TMDL Group ID: **60127**

VAN-E21E_RPP03A02 **Rappahannock River** CAROLINE CO, KING GEORGE CO — Segment begins at the confluence with Mount Creek and continues downstream until the confluence with Mill Creek. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment (1.36 SQUARE MILES)	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	60127	**2006**	**2010**	

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	60127	**2006**	**2010**

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAN-E21E_RPP04A02 **Rappahannock River** CAROLINE CO, KING GEORGE CO — Segment begins at the confluence with Ware Creek and continues downstream until the confluence with Mount Creek. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment (1.20 SQUARE MILES)	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	60127	**2006**	**2010**	

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Bay Segment RPPTF**

TMDL Group ID: **60127**

Sources: Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	60127	**2006**	**2010**

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAN-E21E_RPP05A02 **Rappahannock River** CAROLINE CO, STAFFORD CO

Segment begins at the confluence with Massaponax Creek and continues downstream until the confluence with Ware Creek. The upper reach of this segment (approx. 0.3 sq mi) extends into waterbody VAN-E20E. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.57 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**	

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	60127	**2006**	**2010**

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Clean Sediments

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Bay Segment RPPTF**

TMDL Group ID: **60127**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAN-E21E_RPP20A02 **Ware Creek/Rappahannock River** CAROLINE CO, KING GEORGE CO — Segment includes all tidal waters in watershed not included in other delineated stream segments. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	2.37 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**	

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		60127	**2006**	**2010**

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Beautiful Run**

TMDL Group ID: **60083**

VAN-E13R_BFL01A04	Beautiful Run	MADISON CO	Segment begins at the confluence of an unnamed tributary, upstream from Route 620, and continues downstream until the confluence with the Rapidan River.

VA Overall AU Category: **5A**

Use	Impairment	1.08 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60083	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 5 samples - 80.0%) were recorded at DEQ's ambient water quality monitoring station (3-BFL000.90) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		60083	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 7 samples - 42.8%) were recorded at DEQ's ambient water quality monitoring station (3-BFL000.90) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				

TMDL Watershed Name: **Bells Creek**

TMDL Group ID: **01069**

VAP-E26E_BES01A98	Bells Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-058B, 4/21/2004. Size adjusted in 2006, although area did not change CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01069	**1998**	**2010**	VAP-E26E-15 VDH shellfish condemnation 021-058B, 4/21/2004
		Sources: Source Unknown				

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Belwood Swamp**

TMDL Group ID: **01097**

VAP-E26E_BLD01A98 **Belwood Swamp** LANCASTER CO

Tidal limit to its mouth at the Western Branch Corrotoman River.

Previously called riverine

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01097	**2002**	**2014**	VAP-E26E-27 (see 2004 fact sheet VAP-E26R-01)

The segment was initially assessed in 1998 as fully supporting but threatened of the Recreation Use based on violations of the fecal coliform standard at monitoring station 3-BLD000.58, located at the Route 3 bridge. During the year 2002 cycle, the segment was downgraded to impaired. During the 2004 cycle, the segment continued to be impaired (see 2004 fact sheet VAP-E26R-01).

However, in the 2006 cycle, it was determined that the station is tidally influenced and had been mistakenly considered riverine. The station remains impaired for fecal coliform. The fact sheet and AU were renamed. The TMDL is due in 2014.

Sources: Source Unknown

TMDL Watershed Name: **Black Swamp**

TMDL Group ID: **10105**

VAP-E23R_BLA01A06 **Black Swamp** WESTMORELAND CO

Black Swamp from its headwaters downstream to Chandlers Millpond

VA Overall AU Category: **5C**

Use	Impairment	4.31 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		10105	**2006**	**2018**	VAP-E23R-14

During the 2006 cycle, Black Swamp was assessed as not supporting the Aquatic Life Use based on a dissolved oxygen violation rate of 6/15 at 3-BLA002.31.

This segment is nested within VAP-E23R-01.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Black Walnut Run**

TMDL Group ID: **60095**

VAN-E17R_BWR01A06	Black Walnut Run	ORANGE CO	Segment begins at the Route 621 crossing and continues downstream until the confluence with Mine Run.

VA Overall AU Category: **5A**

Use	Impairment	6.45 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60095	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 15 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-BWR004.13) at the Route 602 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Blue Run**

TMDL Group ID: **00319**

VAN-E13R_BLU01A00	Blue Run	ORANGE CO	Segment begins at the confluence with Barbour Run, approximately 0.13 rivermile upstream of the Southern Rail Road bridge, and continues downstream until the confluence with the Rapidan River.

VA Overall AU Category: **5A**

Use	Impairment	4.21 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00319	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 6 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (3-BLU002.60) at the Route 20 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.

Sources: Source Unknown

Recreation	**Fecal Coliform**		00319	**2002**	**2010**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (7 of 20 samples - 35.0%) were recorded at DEQ's ambient water quality monitoring station (3-BLU002.60) at the Route 20 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

VAN-E13R_BLU02A04	Blue Run	ALBEMARLE CO ORANGE CO	Segment begins at the headwaters of Blue Run and continues downstream until the confluence with Barbour Run.

VA Overall AU Category: **5A**

Use	Impairment	7.40 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		00319	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-BLU006.44), at the bridge for an unnamed road through Tibbstown, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Bookers Mill Stream**

TMDL Group ID: **01054**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E24R_BMS01A98	**Bookers Mill Stream**	RICHMOND CO	Bookers Mill Stream in its entirety.

VA Overall AU Category: **5A**

Use	Impairment	6.22 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01054	**2002**	**2014**	VAP-E24R-01

Bookers Mill Stream was assessed not supporting of the Recreation Use support goal in 2004 based on a fecal coliform violation rate of 4/19 recorded at the Route 612 bridge (3-BMS002.00). Monitoring was discontinued in 2001.

Sources: Source Unknown

TMDL Watershed Name: **Broad Creek**

TMDL Group ID: **01071**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E26E_BRD02A00	**Broad Creek**	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01071	**1998**	**2010**	VAP-E26E-21

VDH shellfish condemnation 033-038A, 12/30/2004

Sources: Industrial Point Source Discharge
Municipal Point Source Discharges
Source Unknown

TMDL Group ID: **10083**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E26E_BRD01A00	**Broad Creek**	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038B, 12/30/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**		10083	**2006**	**2018**	VAP-E26E-20

Broad Creek was considered fully supporting but threatened of the Recreation Use in 1998 due to BPJ (6 dischargers into embayment), but there were acceptable FC violation rates at station 3-BRD000.62 in both the 2002 and 2004 cycles, so it was dropped in 2004. In the 2006 cycle, the fecal coliform violation rate remained acceptable (0/23), however the enterococci violation rate failed (2/9), therefore the segment is considered impaired of the Recreation Use. The TMDL is due in 2018.

Sources: Industrial Point Source Discharge

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Broad Creek**

TMDL Group ID: **10083**

Sources: Municipal Point Source Discharges
Source Unknown

VAP-E26E_BRD02A00 **Broad Creek** MIDDLESEX CO

The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.03	SQUARE MILES	10083	**2006**	**2018**	VAP-E26E-20

Broad Creek was considered fully supporting but threatened of the Recreation Use in 1998 due to BPJ (6 dischargers into embayment), but there were acceptable FC violation rates at station 3-BRD000.62 in both the 2002 and 2004 cycles, so it was dropped in 2004. In the 2006 cycle, the fecal coliform violation rate remained acceptable (0/23), however the enterococci violation rate failed (2/9), therefore the segment is considered impaired of the Recreation Use. The TMDL is due in 2018.

Sources: Industrial Point Source Discharge
Municipal Point Source Discharges
Source Unknown

VAP-E26E_BRD03A00 **Broad Creek** MIDDLESEX CO

The boundaries are defined in VDH shellfish condemnation 033-038C, 12/30/2004.

Sq. mileage adjusted in 2006, although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.03	SQUARE MILES	10083	**2006**	**2018**	VAP-E26E-20

Broad Creek was considered fully supporting but threatened of the Recreation Use in 1998 due to BPJ (6 dischargers into embayment), but there were acceptable FC violation rates at station 3-BRD000.62 in both the 2002 and 2004 cycles, so it was dropped in 2004. In the 2006 cycle, the fecal coliform violation rate remained acceptable (0/23), however the enterococci violation rate failed (2/9), therefore the segment is considered impaired of the Recreation Use. The TMDL is due in 2018.

Sources: Industrial Point Source Discharge
Municipal Point Source Discharges
Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Broad Creek**

TMDL Group ID: **10083**

VAP-E26E_BRD04A00 **Broad Creek** MIDDLESEX CO

Described in VDH-DSS condemnation 033-038M1, 12/3/2004

Size reduced in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**		10083	**2006**	**2018**	VAP-E26E-20

Broad Creek was considered fully supporting but threatened of the Recreation Use in 1998 due to BPJ (6 dischargers into embayment), but there were acceptable FC violation rates at station 3-BRD000.62 in both the 2002 and 2004 cycles, so it was dropped in 2004. In the 2006 cycle, the fecal coliform violation rate remained acceptable (0/23), however the enterococci violation rate failed (2/9), therefore the segment is considered impaired of the Recreation Use. The TMDL is due in 2018.

Sources: Industrial Point Source Discharge
Municipal Point Source Discharges
Source Unknown

TMDL Watershed Name: **Browns Run**

TMDL Group ID: **00835**

VAN-E08R_BOS01A02 **Browns Run** FAUQUIER CO

Segment begins at the confluence with an unnamed tributary to Browns Run, near the Route 17 bridge, and continues downstream until the confluence with Marsh Run.

VA Overall AU Category: **5A**

Use	Impairment	2.39 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		00835	**2002**	**2014**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 3 samples - 100%) were recorded at DEQ's ambient water quality monitoring station (3-BOS000.72) at the Route 653 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Carter Cove**

TMDL Group ID: **01078**

VAP-E26E_CTR04A02	Carter Cove	LANCASTER CO	As described in VDH-DSS SFC 020-041C, 12/17/2004 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01078	**2002**	**2014**	VAP-E26E-30 VDH shellfish condemnation 020-041C, 12/17/2004 Was threatened in 1998 b/c it was part of the seasonal condemnation. Was downgraded during 2002 cycle.

Sources: Source Unknown

TMDL Watershed Name: **Carter Creek**

TMDL Group ID: **01077**

VAP-E26E_CTR02A00	Carter Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 041B, 12/17/2004. Size adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01077	**1998**	**2010**	VAP-E26E-19 VDH-DSS condemnation 020-041B, 12/17/2004

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Carter Creek, Eastern Branch**

TMDL Group ID: **01072**

VAP-E26E_CEB01A00	**Eastern Branch Carter Creek**	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004. Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.25 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01072	**1998**	**2016**	VAP-E26E-17 In the 2004 cycle, the segment was also listed as impaired of the Recreation Use goal based on a fecal coliform violation rate of 5/38 at 3-CEB001.92, located at Route 200. Although the violation rate in the 2006 cycle dropped to 0/15, the monitoring ceased in 2002, therefore the previous impairment is carried over. The TMDL is due in 2014.

Sources: Source Unknown

TMDL Group ID: **01073**

VAP-E26E_CEB01A00	**Eastern Branch Carter Creek**	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004. Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.25 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01073	**1998**	**2010**	VAP-E26E-17 VDH shellfish condemnation 020-041A, 12/17/2004

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Carter Run**

TMDL Group ID: **20024**

VAN-E02R_CAE02A04 **Carter Run** FAUQUIER CO

Segment begins at the confluence with Horner Run and continues downstream until the confluence with South Run.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	8.24 MILES	20024	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 9 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-CAE006.32) at the Route 738 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

VAN-E02R_CAE03A06 **Carter Run** FAUQUIER CO

Segment begins at the confluence with Strothers Branch and continues downstream until the confluence with an unnamed tributary to Carter Run, at rivermile 14.71.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	1.62 MILES	20024	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (3-CAE015.01), at a private road off of Route 719, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Cat Point Creek**

TMDL Group ID: **10104**

VAP-E23R_CAT01A98 **Cat Point Creek** RICHMOND CO

Cat Point Creek from Ruin Branch (river mile 14.1) downstream to Canal Swamp (river mile 10.54.)

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	4.99 MILES	10104	**2006**	**2018**	VAP-E23R-13 During the 2006 cycle, the E. coli violation rate at 5ACAT011.62 was 2/13, therefore the segment is considered impaired of the Recreation Use. Further monitoring is recommended.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Cat Point Creek Watershed**

TMDL Group ID: **00649**

VAP-E23R_BLA01A06 **Black Swamp** WESTMORELAND CO Black Swamp from its headwaters downstream to Chandlers Millpond

VA Overall AU Category: **5C**

Use	Impairment	4.31 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00649	**2004**	**2016**	VAP-E23R-01

Cat Point Creek from Ruin Branch to Canal Swamp (4.99 miles) was assessed as not supporting of the Aquatic Life use support goal during the 1998 cycle based on pH standard violations recorded at monitoring station 3-CAT011.62, located at the Route 637 bridge. During the year 2004 cycle, the segment was extended due to the pH violations throughout the watershed:

The TMDL for the original segment was due in 2014, but the TMDL for the upstream portion of Cat Point Creek and the tributaries was not due until 2016.

During the 2006 cycle, the ""Natural Conditions Assessment for low pH, Cat Point Creek, Richmond and Westmoreland Counties, Virginia"" recommended that Cat Point Creek and its tribs from their headwaters to the head of tide at rivermile 10.54 (Canal Swamp) be reclassified as Class VII swampwaters. Until the WQS can be changed, the streams will be assessed as Cat. 4C for pH.

During the 1998 cycle, Canal Swamp was mistakenly called Bellfield Creek.

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

VAP-E23R_CAT01A98 **Cat Point Creek** RICHMOND CO Cat Point Creek from Ruin Branch (river mile 14.1) downstream to Canal Swamp (river mile 10.54.)

VA Overall AU Category: **5A**

Use	Impairment	4.99 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00649	**1998**	**2010**	VAP-E23R-01

During the 2006 cycle, the "Natural Conditions Assessment for low pH, Cat Point Creek, Richmond and Westmoreland Counties, Virginia" recommended that Cat Point Creek and its tribs from their headwaters to the head of tide at rivermile 10.54 (Canal Swamp) be reclassified as Class VII swampwaters. Until the WQS can be changed, the streams will be assessed as Cat. 4C for pH.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Cat Point Creek Watershed**

TMDL Group ID: **00649**

VAP-E23R_TBS01A06	The Big Swamp	RICHMOND CO WESTMORELAND CO	Headwaters to mouth at Cat Point Creek

VA Overall AU Category: **5C**

Use	Impairment	6.80 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00649	**2004**	**2016**	VAP-E23R-01

Cat Point Creek from Ruin Branch to Canal Swamp (4.99 miles) was assessed as not supporting of the Aquatic Life use support goal during the 1998 cycle based on pH standard violations recorded at monitoring station 3-CAT011.62, located at the Route 637 bridge. During the year 2004 cycle, the segment was extended due to the pH violations throughout the watershed:

The TMDL for the original segment was due in 2014, but the TMDL for the upstream portion of Cat Point Creek and the tributaries was not due until 2016.

During the 2006 cycle, the "Natural Conditions Assessment for low pH, Cat Point Creek, Richmond and Westmoreland Counties, Virginia" recommended that Cat Point Creek and its tribs from their headwaters to the head of tide at rivermile 10.54 (Canal Swamp) be reclassified as Class VII swampwaters. Until the WQS can be changed, the streams will be assessed as Cat. 4C for pH.

During the 1998 cycle, Canal Swamp was mistakenly called Bellfield Creek.

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

TMDL Watershed Name: **Cedar Run**

TMDL Group ID: **00847**

VAN-E16R_CED01A00	Cedar Run	CULPEPER CO	Segment begins at the confluence with Cabin Branch and continues downstream until the confluence with the Rapidan River.

VA Overall AU Category: **5A**

Use	Impairment	2.19 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		00847	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality monitoring station (3-CED000.59) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Cedar Run**

TMDL Group ID: **00847**

VAN-E16R_CED02A04	Cedar Run	CULPEPER CO	Segment begins at the confluence with Buck Run and continues downstream until the confluence with Cabin Branch.

VA Overall AU Category: **5A**

Use	Impairment	3.21 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00847	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 3 samples - 100%) were recorded at DEQ's special study water quality monitoring station (3-CED003.52) at the Route 652 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		00847	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's special study water quality monitoring station (3-CED003.52) at the Route 652 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				

TMDL Watershed Name: **Church Swamp**

TMDL Group ID: **10100**

VAP-E23R_CRC01A06	Church Swamp	ESSEX CO	Headwaters to mouth at tidal Hoskins Creek

VA Overall AU Category: **5C**

Use	Impairment	3.64 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		10100	**2006**	**2018**	VAP-E23R-09 Church Swamp was assessed as not supporting of the Aquatic Life Use based on a pH violation rate of 2/2 at -CRC001.38.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

TMDL Watershed Name: **Claiborne Run**

TMDL Group ID: **00323**

VAN-E20R_CLB01A00	Claiborne Run	STAFFORD CO	Segment begins at the confluence with an unnamed tributary to Claiborne Run, approximately 0.5 rivermile upstream of the Route 1 crossing, and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment	4.89 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00323	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 8 samples - 62.5%) were recorded at DEQ's ambient water quality monitoring station (3-CLB000.50) at the Route 3 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform impairment, beginning in 1998.
		Sources: Source Unknown				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Claiborne Run**

TMDL Group ID: **00323**

Recreation	**Fecal Coliform**	00323	**1998**	**2010**	Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (1 of 6 samples - 16.7%), it is categorized as having insufficient information with which to determine use support. No additional fecal coliform data has been collected from the DEQ's ambient water quality monitoring station (3-CLB000.50) at Route 3 since the previous assessment window. The segment shall remain categorized as impaired for fecal coliform bacteria, as it has been since 1998.

Sources: Source Unknown

TMDL Group ID: **00848**

VAN-E20R_CLB01A00 **Claiborne Run** STAFFORD CO

Segment begins at the confluence with an unnamed tributary to Claiborne Run, approximately 0.5 rivermile upstream of the Route 1 crossing, and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment	4.89 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00848	**2002**	**2014**	Sufficient exceedances of the instantaneous pH criterion (3 of 12 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (3-CLB000.50) at the Route 3 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_BES01A98 **Bells Creek** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 021-058B, 4/21/2004.

Size adjusted in 2006, although area did not change

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Sources: Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

VAP-E26E_BLD01A98 **Belwood Swamp** LANCASTER CO

Tidal limit to its mouth at the Western Branch Corrotoman River.

Previously called riverine

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Sources: Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E26E_CRR01A00 **Corrotoman River** LANCASTER CO

The mainstem of the Corrotoman River downstream of the confluence of the Eastern and Western Branches Corrotoman River.

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	4.24 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2002**	**2010**	VAP-E26E-25 The Corrotoman River was included in EPA's 1998 Overlist. The segment was previously called impaired solely on EPA's overlist (nutrients/eutrophication biological indicators). The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. The TMDL is due in 2010. During the 2006 cycle, monitoring was conducted at Coastal 2000 station 3-CRR000.58. The weight of evidence approach was utilized and the station was considered impaired because of sparse benthos. There was no toxicity or chemical contamination observed, therefore the approach considered the cause to be water quality.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2002**	**2010**	VAP-E26E-25 The Corrotoman River was included in EPA's 1998 Overlist. The segment was previously called impaired solely on EPA's overlist (nutrients/eutrophication biological indicators). The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria. The TMDL is due in 2010.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Sources: Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E26E_CTM01A00 **Eastern Branch Corrotoman River** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 021-058C, 4/21/2004.

Size expanded in 2006

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.61 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_CTO01A02 **Western Branch Corrotoman River** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 021-132A, 3/27/2002, not otherwise segmented

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.50 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

VAP-E26E_CTO02A06 **Western Branch Corrotoman River** LANCASTER CO

Mainstem downstream of SFC 021-132A

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	1.37 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

Sources: Agriculture

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

VAP-E26E_DAS01A02 **Davis Creek** LANCASTER CO

As described in VDH-DSS SFC 021-132C. 3/27/2002.

Size adjusted in 2006

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

VAP-E26E_EWE01A00 **Ewells Prong** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 187C, 3/27/2002.

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Sources: Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E26E_HLS01A00 **Hills Creek** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 021-058A, 4/21/2004.

Size expanded in 2006 cycle

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_LIT01A06	Little Branch	LANCASTER CO	Tidal limit to mouth at Western Branch Corrotoman River

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.11 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_MIP01A00	**Millenbeck Prong**	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187B, 3/27/2002. Size adjusted in 2006, although area did not change CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_MYE01A00	**Myer Creek**	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 198B, 11/6/2003. Size adjusted in 2006 CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_MYE01B02	**Myer Creek, UT**	LANCASTER CO	As described in VDH-DSS SFC 21-198C, 11/6/2003. Size adjusted in 2006, although area did not change CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25, VAP-E26E-31 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_MYE01C04 **Myer Creek** LANCASTER CO Described in VDH Condemnation 21-198A, 11/6/2003

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

VAP-E26E_MYE02C06 **Myer Creek** LANCASTER CO Described in VDH-DSS SFC 021-198M, 11/6/2003

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

VAP-E26E_SEN01A00 **Senior Creek** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 021-132B, 3/27/2002.

Size adjusted in 2006 cycle, although area did not change.

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

VAP-E26E_TAY01A00 **Taylor Creek** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 021-205, 3/27/2002.

Size reduced in 2004 cycle.

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01074	**2006**	**2010**	VAP-E26E-25

The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

Sources: Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E26E_TON01A00 **Town Creek** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 187A, 3/27/2002.

Size adjusted in 2006, although area did not change

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_WHR01A00	**Whitehouse Creek**	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187D, 3/27/2002 Size adjusted in 2006, although area did not change CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River Mesohaline**

TMDL Group ID: **01074**

VAP-E26E_ZZZ02A06	**Unsegmented estuaries in E26**	LANCASTER CO	Unsegmented portion of watershed
			CRRMH

VA Overall AU Category: **5A**

Use	Impairment	1.74 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01074	**2006**	**2010**	VAP-E26E-25 The new Chesapeake Bay water quality standards were implemented during the 2006 cycle. The mesohaline Corrotoman failed the open water summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River, Eastern Branch**

TMDL Group ID: **01075**

VAP-E26E_CTM01A00	**Eastern Branch Corrotoman River**	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-058C, 4/21/2004. Size expanded in 2006 CRRMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.61	SQUARE MILES	01075	**1998**	**2010**	VAP-E26E-16 VDH shellfish condemnation 021-058C, 4/21/2004 Size expanded in 2006 cycle

Sources: Source Unknown

TMDL Watershed Name: **Corrotoman River, Western Branch**

TMDL Group ID: **01076**

VAP-E26E_BLD01A98	**Belwood Swamp**	LANCASTER CO	Tidal limit to its mouth at the Western Branch Corrotoman River. Previously called riverine CRRMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.01	SQUARE MILES	01076	**2002**	**2010**	VAP-E26E-09 Portion of VDH shellfish condemnation 021-132A, 3/27/2002

Sources: Source Unknown

VAP-E26E_CTO01A02	**Western Branch Corrotoman River**	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-132A, 3/27/2002, not otherwise segmented CRRMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.50	SQUARE MILES	01076	**1998**	**2010**	VAP-E26E-09 VDH shellfish condemnation 021-132A, 3/27/2002

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Corrotoman River, Western Branch**

TMDL Group ID: **01076**

VAP-E26E_LIT01A06	Little Branch	LANCASTER CO	Tidal limit to mouth at Western Branch Corrotoman River CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.11 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01076	**1998**	**2010**	VAP-E26E-09 Portion of VDH shellfish condemnation 021-132A, 3/27/2002

Sources: Source Unknown

TMDL Watershed Name: **Craig Run**

TMDL Group ID: **00836**

VAN-E08R_CRA01A02	Craig Run	FAUQUIER CO	Segment begins at the headwaters of Craig Run and continues downstream until the confluence with Marsh Run.

VA Overall AU Category: **5A**

Use	Impairment	3.61 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		00836	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 3 samples - 100%) were recorded at DEQ's ambient water quality monitoring station (3-CRA000.82) at the Route 656 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Davis Creek**

TMDL Group ID: **01079**

VAP-E26E_DAS01A02	Davis Creek	LANCASTER CO	As described in VDH-DSS SFC 021-132C. 3/27/2002. Size adjusted in 2006 CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01079	**2002**	**2014**	VAP-E26E-35 VDH-DSS Shellfish Condemnation 021-132C, 3/27/2002

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Deep Creek**

TMDL Group ID: **01055**

VAP-E25E_DEE01A04 **Deep Creek** LANCASTER CO

Described in VDH shellfish condemnation 023-121B, 9/23/2004.

In 2002, Deep Creek was split into 3 segments. In 2004, the condemnation was expanded and the segments were joined. Size adjusted in 2006.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.22 SQUARE MILES	01055	**1998**	**2010**	VAP-E25E-10 VDH condemnation 023-121B, 9/23/2004

Sources: Source Unknown

TMDL Watershed Name: **Deep Run**

TMDL Group ID: **20023**

VAN-E10R_DPR02A02 **Deep Run** FAUQUIER CO

Segment begins at the confluence with Pine Branch and continues downstream until the confluence with Green Branch.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	2.79 MILES	20023	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-DPR004.93) at the Route 752 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Elmwood Creek**

TMDL Group ID: **10112**

VAP-E22R_ELM01A06 **Elmwood Creek** ESSEX CO

Headwaters to tidal limit

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	4.87 MILES	10112	**2006**	**2018**	VAP-E22R-04 Elmwood Creek was assessed as not supporting the Aquatic Life Use based on a pH violation rate of 2/8 at 3-ELM002.23.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Ewells Prong**

TMDL Group ID: **01080**

VAP-E26E_EWE01A00	Ewells Prong	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187C, 3/27/2002. CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01080	**1998**	**2010**	VAP-E26E-06 VDH shellfish condemnation 187C, 3/27/2002

Sources: Source Unknown

TMDL Watershed Name: **Farmers Hall Creek**

TMDL Group ID: **01037**

VAP-E22R_FAR01A04	Farmers Hall Creek	ESSEX CO	Headwaters to mouth

VA Overall AU Category: **5A**

Use	Impairment	4.38 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01037	**2004**	**2016**	VAP-A34R-02 Farmers Hall Creek was assessed as not supporting of the Recreation Use support goal based on a fecal coliform violation rate of 3/13 at the Route 631 bridge (3-FAR002.88).

Sources: Source Unknown

TMDL Watershed Name: **Farnham Creek**

TMDL Group ID: **01032**

VAP-E25E_FAM01A98	Farnham Creek	RICHMOND CO	The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000 Sq. mileage adjusted in 2006 although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.41 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01032	**2004**	**2016**	VAP-E25E-05 In the 2004 cycle, impairments of the Aquatic Life and Wildlife Uses were added due to chloride violations at 3-FAM002.62. The chloride TMDL is due in 2016.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Farnham Creek**

TMDL Group ID: **01032**

Wildlife	**Chloride**	01032	**2004**	**2016**	VAP-E25E-05	In the 2004 cycle, impairments of the Aquatic Life and Wildlife Uses were added due to chloride violations at 3-FAM002.62. The chloride TMDL is due in 2016.

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

TMDL Group ID: **01056**

VAP-E25E_FAM01A98 **Farnham Creek** RICHMOND CO

The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000

Sq. mileage adjusted in 2006 although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.41 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01056	**1998**	**2014**	VAP-E25E-05 In 2002, the segment was assessed as not supporting the Recreation Use due to fecal coliform violations at 3-FAM002.62. During the 2006 cycle, the violation rate was 3/18. The TMDL is due in 2014.

Sources: Source Unknown

TMDL Group ID: **01057**

VAP-E25E_FAM01A98 **Farnham Creek** RICHMOND CO

The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000

Sq. mileage adjusted in 2006 although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.41 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01057	**1998**	**2010**	VAP-E25E-05 VDH condemnation 024-070, 10/17/2000

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Finks Run**

TMDL Group ID: **60089**

VAN-E14R_FIK01A06	Finks Run	MADISON CO	Segment begins at the headwaters of Finks Run and continues downstream until the confluence with the Robinson River.

VA Overall AU Category: **5A**

Use	Impairment	3.02 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60089	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-FIK001.08) at the Route 650 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Greenvale Creek**

TMDL Group ID: **01058**

VAP-E25E_GEE01A98	Greenvale Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 094A, 2/5/2003. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01058	**1998**	**2010**	VAP-E25E-15 VDH-DSS condemnation 094A, 2/5/2003

Sources: Source Unknown

TMDL Watershed Name: **Harry George Creek**

TMDL Group ID: **10080**

VAP-E25E_HRY01A06	Harry George Creek	MIDDLESEX CO	Designated in VDH SFC 202B, 9/3/2003 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		10080	**2006**	**2018**	VAP-E25E-20 VDH Shellfish Condemnation 202B, 9/3/2003

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Hazel River**

TMDL Group ID: **60076**

VAN-E07R_HAZ01A04 **Hazel River** CULPEPER CO

Segment begins at the confluence with Indian Run and continues downstream until the confluence with Muddy Run.

VA Overall AU Category: **5A**

Use	Impairment	3.32 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60076	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 10 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ005.98) at the Route 625 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		60076	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 14 samples - 35.7%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ005.98) at the Route 625 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				

TMDL Group ID: **60079**

VAN-E04R_HAZ01A00 **Hazel River** CULPEPER CO RAPPAHANNOCK CO

Segment begins at the confluence with Blackwater Creek and continues downstream until the confluence with an unnamed tributary to the Hazel River, at rivermile 16.03.

VA Overall AU Category: **5A**

Use	Impairment	5.58 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60079	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 9 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ018.29) at the Route 729 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 2002, for a fecal coliform bacteria impairment.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		60079	**2002**	**2010**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 20 samples - 15.0%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ018.29) at the Route 729 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 2002, for a fecal coliform bacteria impairment.
		Sources: Source Unknown				

VAN-E04R_HAZ01B06 **Hazel River** CULPEPER CO

Segment begins at the confluence with Devils Run and continues downstream until the confluence with Blackwater Creek.

VA Overall AU Category: **5A**

Use	Impairment	3.54 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60079	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 6 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Hazel River**

TMDL Group ID: **60079**

Recreation	**Fecal Coliform**	60079	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 6 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

VAN-E04R_HAZ01C06 **Hazel River** CULPEPER CO

Segment begins at the confluence with the Hughes River and continues downstream until the confluence with Devils Run.

VA Overall AU Category: **5A**

Use	Impairment	6.77 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60079	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 6 samples - 33.3%) were recorded, upstream, at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

Recreation	**Fecal Coliform**		60079	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 6 samples - 33.3%) were recorded, upstream, at DEQ's ambient water quality monitoring station (3-HAZ026.16) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

VAN-E04R_HAZ02A02 **Hazel River** RAPPAHANNOCK CO

Segment begins at the Route 707 bridge and continues downstream until the confluence with the Hughes River.

VA Overall AU Category: **5A**

Use	Impairment	0.78 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		60079	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 14 samples - 21.4%) were recorded at DEQ's ambient water quality monitoring station (3-HAZ032.54) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Hazel Run**

TMDL Group ID: **00849**

VAN-E20R_HAL01A00	Hazel Run	FREDERICKSBURG CITY SPOTSYLVANIA CO	Segment begins at the Route 95 crossing and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment	4.46 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00849	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (3-HAL001.44) at the Route 1 Business bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform impairment, beginning in 2004.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		00849	**2004**	**2016**	Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (1 of 7 samples - 14.3%), it is categorized as having insufficient information with which to determine use support. No additional fecal coliform data has been collected from the DEQ's ambient water quality monitoring station (3-HAL001.44) at Route 1 Business since the previous assessment window. The segment shall remain categorized as impaired for fecal coliform bacteria, as it has been since 2004.
		Sources: Source Unknown				

TMDL Watershed Name: **Hills Creek**

TMDL Group ID: **01081**

VAP-E26E_HLS01A00	Hills Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-058A, 4/21/2004. Size expanded in 2006 cycle CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01081	**1998**	**2010**	VAP-E26E-14 VDH shellfish condemnation 021-058A, 4/21/2004
		Sources: Source Unknown				

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Hoskins Creek**

TMDL Group ID: **00253**

VAP-E23E_HOK01A98 **Hoskins Creek** ESSEX CO

Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**		00253	**2006**	**2010**	VAP-E23E-03

This segment was initially included on the 1994 303(d) list based on excessive fecal coliform standard violations recorded at the Rt. 360 bridge (3-HOK000.74). For the 2004 cycle, the segment was assessed not supporting of the Recreation use support goal based on a fecal coliform standard violation rate of 9/49 recorded at 3-HOK000.74. The upstream limit was extended to the Town of Tappahannock STP in the 1998 cycle in recognition that the STP may be a contributing source, although this has not been verified. During the 2006 cycle, the segment remained impaired and enterococci was added as an impairing cause with a violation rate of 9/12 at 3-HOK000.74.

Sources: Municipal Point Source Discharges
Source Unknown

Use	Impairment	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	00253	**1996**	**2010**	VAP-E23E-03

This segment was initially included on the 1994 303(d) list based on excessive fecal coliform standard violations recorded at the Rt. 360 bridge (3-HOK000.74). For the 2004 cycle, the segment was assessed not supporting of the Recreation use support goal based on a fecal coliform standard violation rate of 9/49 recorded at 3-HOK000.74. The upstream limit was extended to the Town of Tappahannock STP in the 1998 cycle in recognition that the STP may be a contributing source, although this has not been verified. During the 2006 cycle, the segment remained impaired and enterococci was added as an impairing cause with a violation rate of 9/12 at 3-HOK000.74.

Sources: Municipal Point Source Discharges
Source Unknown

TMDL Group ID: **00254**

VAP-E23E_HOK01A98 **Hoskins Creek** ESSEX CO

Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		00254	**2004**	**2016**	VAP-E23E-03

In the 2004 cycle, the segment was assessed as not supporting the Aquatic Life and Wildlife uses based on chloride violations at 3-HOK000.74. The TMDL for chloride is due in 2016.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Hoskins Creek**

TMDL Group ID: **00254**

Wildlife	**Chloride**	00254	**2004**	**2016**	VAP-E23E-03

In the 2004 cycle, the segment was assessed as not supporting the Aquatic Life and Wildlife uses based on chloride violations at 3-HOK000.74. The TMDL for chloride is due in 2016.

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

TMDL Group ID: **01043**

VAP-E23R_HOK01A04 **Hoskins Creek** ESSEX CO Headwaters to the tidal limit

VA Overall AU Category: **5C**

Use	Impairment	12.96 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		01043	**2004**	**2016**	VAP-E23R-04

Assessed not supporting of the Aquatic Life use support goal based on pH standard violation rates of 8/13 recorded at monitoring station 3-HOK011.45, located at the Route 717 bridge and of 11/18 at 3-HOK007.25.

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

TMDL Group ID: **10073**

VAP-E23E_HOK01A98 **Hoskins Creek** ESSEX CO Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		10073	**2006**	**2018**	VAP-E23E-03, VAP-E22E-01

During the 2006 cycle, pH was added as an impairment because of a violation rate of 6/19 at 3-HOK003.61. Natural conditions are suspected.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Hughes River**

TMDL Group ID: **00832**

VAN-E03R_HUE01A00 **Hughes River** CULPEPER CO, RAPPAHANNOCK CO — Segment begins at the confluence with Kilbys Creek and continues downstream until the confluence with the Hazel River.

VA Overall AU Category: **5A**

Use	Impairment	3.68 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00832	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 11 samples - 36.4%) were recorded at DEQ's ambient water quality monitoring station (3-HUE000.20) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was initially listed for fecal coliform bacteria impairment in 2004.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		00832	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 19 samples - 15.8%) were recorded at DEQ's ambient water quality monitoring station (3-HUE000.20) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was initially listed for fecal coliform bacteria impairment in 2004.
		Sources: Source Unknown				

TMDL Watershed Name: **Indian Run**

TMDL Group ID: **60080**

VAN-E07R_IND01A04 **Indian Run** CULPEPER CO — Segment begins at the confluence with an unnamed tributary to Indian Run, upstream from Route 626, and continues downstream until the confluence with the Hazel River.

VA Overall AU Category: **5A**

Use	Impairment	3.84 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		60080	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-IND001.14) at the Route 624 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Lagrange Creek**

TMDL Group ID: **00196**

VAP-E25E_LGG01A98 **Lagrange Creek** MIDDLESEX CO As described in VDH SFC 127, 6/11/1996.

RPPMH

VA Overall AU Category: **5D**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.60	SQUARE MILES	00196	**1998**	**2005**	Category 4A VAP-E25E-01 The segment was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 127, 6/11/1996. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. The segment should be classified as Cat. 4A, however at the time of assessment there was no EPA TMDLID available.

Sources: Non-Point Source

TMDL Group ID: **01068**

VAP-E25R_LGG01A98 **Lagrange Creek** MIDDLESEX CO Lagrange Creek from its headwaters to the limit of tidal influence.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	2.72	MILES	01068	**2004**	**2016**	VAP-E25R-02 Lagrange Creek was assessed in 2004 as not supporting of the Recreation Use support goal based on a fecal coliform violation rate of 3/20 recorded at the Route 610 bridge (3-LGG004.54). There has been no additional monitoring since 2001.

Sources: Source Unknown

TMDL Group ID: **10081**

VAP-E25E_LGG02A06 **Lagrange Creek** MIDDLESEX CO As described in VDH SFC 127, 2/25/2004, not otherwise segmented.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.60	SQUARE MILES	10081	**1998**	**2018**	VAP-E25E-21, VAP-E22E-01 The upstream portion of Lagrange Creek was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 127, 6/11/1996. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. During the 2006 cycle, however, the condemnation was extended downstream. The TMDL for this segment is due in 2018.

Sources: Non-Point Source

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Lancaster Creek**

TMDL Group ID: **01033**

VAP-E25E_LAN01A98 **Lancaster Creek** LANCASTER CO RICHMOND CO

The segment boundaries are delineated in VDH SFC 120B, 9/23/2004.

Size reduced in 2006 cycle.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.46 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01033	**2004**	**2016**	VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	**Chloride**		01033	**2004**	**2016**	VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

VAP-E25E_LAN02A02 **Lancaster Creek** LANCASTER CO RICHMOND CO

The mouth of Lancaster Creek downstream of VDH SFC 120B, 9/23/2004, not otherwise segmented.

Size increased in 2006 cycle.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	1.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01033	**2004**	**2016**	VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	**Chloride**		01033	**2004**	**2016**	VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Lancaster Creek**

TMDL Group ID: **01033**

VAP-E25E_LAN03A06	Lancaster Creek	RICHMOND CO	Described in VDH SFC 023-120M1, 9/23/2004 Size increased in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01033	**2004**	**2016**	VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01033	**2004**	**2016**	VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

TMDL Group ID: **01059**

VAP-E25E_LAN01A98	Lancaster Creek	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.46 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01059	**1998**	**2010**	VAP-E25E-11 VDH shellfish condemnation 020-120B, 9/23/2004 - size reduced in 2006
		Sources: Source Unknown				

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Lancaster Creek**

TMDL Group ID: **01060**

VAP-E25E_LAN01A98	Lancaster Creek	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.46 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01060	**1998**	**2016**	VAP-E25E-11 In 2004, the segment was also assessed as not supporting the Recreation Use due to a fecal coliform violation rate of 2/18 at 3-LAN002.81, located at the end of Route 1105. There has been no additional fecal coliform or enterococci monitoring since 2001. The TMDL is due in 2016.

Sources: Source Unknown

TMDL Watershed Name: **LaRogue Run**

TMDL Group ID: **60097**

VAN-E19R_LAR01A04	LaRogue Run	SPOTSYLVANIA CO	Segment begins at the headwaters of LaRogue Run and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment	2.86 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		60097	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 9 samples - 22.2%) were recorded at DEQ's ambient water quality monitoring station (3-LAR000.48) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Leathers Run**

TMDL Group ID: **60090**

VAN-E14R_LEA01A06	Leathers Run	MADISON CO	Segment begins at the confluence with an unnamed tributary to Leathers Run, approximately 0.65 rivermile downstream from the Route 641 crossing, and continues downstream until the confluence with the Robinson River.

VA Overall AU Category: **5A**

Use	Impairment	2.03 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60090	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-LEA000.17) at the Route 609 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Little Branch**

TMDL Group ID: **10084**

VAP-E26E_LIT01A06 **Little Branch** LANCASTER CO Tidal limit to mouth at Western Branch Corrotoman River

CRRMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.11	SQUARE MILES	10084	**2006**	**2018**	VAP-E26E-26

Little Branch was assessed as not supporting of the Recreation Use during the 2006 cycle due to a enterococci violation rate of 3/9 at 3-LIT000.85.

Sources: Source Unknown

TMDL Watershed Name: **Little Carter Creek, Jugs Creek**

TMDL Group ID: **01038**

VAP-E23E_LIE01A98 **Little Carter Creek, Jugs Creek** RICHMOND CO The segment boundaries are defined in VDH shellfish condemnation 068B, 3/6/2002.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.32	SQUARE MILES	01038	**1998**	**2010**	VAP-E23E-02

VDH-DSS SFC 068B, 3/6/2002 remains closed but is now incorporated into SFC 068A, 3/26/2004

Sources: Source Unknown

TMDL Watershed Name: **Little Wicomico River**

TMDL Group ID: **10026**

VAP-E22R_FAR01A04 **Farmers Hall Creek** ESSEX CO Headwaters to mouth

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	4.38	MILES	10026	**2006**	**2018**	VAP-A34R-02

In 2006, Farmers Hall Creek was assessed as not supporting of the Aquatic Life Use support goal based on a pH violation rate of 2/13 at the Route 631 bridge (3-FAR002.88).

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Locklies Creek**

TMDL Group ID: **01082**

VAP-E26E_LOL01A02 **Locklies Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 102A, 2/6/2004.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.10	SQUARE MILES	01082	**1998**	**2010**	VAP-E26E-13 VDH shellfish condemnation 031-102A, 3/6/2004

Sources: Source Unknown

TMDL Watershed Name: **Marsh Run**

TMDL Group ID: **00318**

VAN-E08R_MAH01A00 **Marsh Run** FAUQUIER CO

Segment begins at the confluence with Harpers Run, at approximately rivermile 2.4, and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	2.25	MILES	00318	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-MAH000.19) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 1996, for a fecal coliform bacteria impairment.

Sources: Source Unknown

VAN-E08R_MAH02A02 **Marsh Run** FAUQUIER CO

Segment begins at the confluence with Craig Run and continues downstream until the confluence with Harpers Run, at approximately rivermile 2.4.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	5.91	MILES	00318	**1996**	**2010**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 4 samples - 75.0%) were recorded at DEQ's ambient water quality monitoring station (3-MAH004.18) at the Route 668 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Marsh Run**

TMDL Group ID: **00843**

VAN-E13R_MAS01A04	Marsh Run	GREENE CO ORANGE CO	Segment begins at the headwaters of Marsh Run and continues downstream until the confluence with the Rapidan River.

VA Overall AU Category: **5A**

Use	Impairment	5.19 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		00843	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 13 samples - 30.8%) were recorded at DEQ's ambient water quality monitoring station (3-MAS001.55) at the Route 644 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Masons Mill Swamp**

TMDL Group ID: **01061**

VAP-E25E_MAO01A00	Masons Mill Swamp	MIDDLESEX CO	Tidal Masons Mill Swamp watershed - expanded in 2006. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.17 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		01061	**2004**	**2016**	VAP-E25E-17 Tidal Masons Mill Swamp was assessed as not supporting the Aquatic Life Use based on a pH violation rate of 5/11 at 3-MAO000.62.

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

TMDL Watershed Name: **Massaponax Creek**

TMDL Group ID: **00850**

VAN-E20R_MAP02A02	Massaponax Creek	SPOTSYLVANIA CO	Segment begins at the confluence with an unnamed tributary to Massaponax Creek, just upstream of Route 1, and continues downstream until the confluence with another unnamed tributary, approximately 0.25 rivermile upstream of Ruffins Pond.

VA Overall AU Category: **5A**

Use	Impairment	6.04 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00850	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 8 samples - 75.0%) were recorded at DEQ's ambient water quality monitoring station (3-MAP007.97) at the Route 1 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Massaponax Creek**

TMDL Group ID: **00850**

Recreation	**Fecal Coliform**	00850	**2004**	**2016**	Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (0 of 6 samples - 0.0%) is categorized as fully supporting, no additional data has been collected from the DEQ special study station (3-MAP002.61) at Route 609 bridge since the previous assessment window, when the stream reach was first listed as impaired. The segment shall remain categorized as impaired.

Sources: Source Unknown

TMDL Group ID: **60115**

VAN-E20R_MAP02A02 **Massaponax Creek** SPOTSYLVANIA CO

Segment begins at the confluence with an unnamed tributary to Massaponax Creek, just upstream of Route 1, and continues downstream until the confluence with another unnamed tributary, approximately 0.25 rivermile upstream of Ruffins Pond.

VA Overall AU Category: **5A**

Use	Impairment	6.04 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		60115	**2006**	**2018**	Sufficient exceedances of the instantaneous pH criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (3-MAP007.97) at the Route 1 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Meachim Creek**

TMDL Group ID: **00202**

VAP-E26E_MEA01A00 **Meachim Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 179A, 11/17/2004.

Expanded in 2006

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		00202	**1998**	**2005**	Category 4A VAP-E26E-01 VDH shellfish condemnation 179A, 11/17/2004 The Shellfish TMDL was completed during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be considered Category 4A for Shellfish, although the EPA TMDL ID was not available at the time of assessment.

Sources: Non-Point Source

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Meachim Creek**

TMDL Group ID: **00203**

VAP-E26E_MEA01B00	Meachim Creek	MIDDLESEX CO	The segment is delineated in VDH shellfish condemnation 179B, 11/17/2004. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		00203	**1998**	**2005**	Category 4A VAP-E26E-02 VDH shellfish condemnation 030-179B, 11/17/2004 This area was included in the Meachim and Whiting Creek Shellfish TMDL, which was completed during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be considered Category 4A for shellfish, however the EPA TMDL ID was not available at the time of assessment.

Sources: Non-Point Source

TMDL Watershed Name: **Mill Creek**

TMDL Group ID: **01084**

VAP-E26E_MLL01A98	Mill Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 103, 12/10/1991 RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01084	**1998**	**2010**	VAP-E26E-11 VDH shellfish condemnation 103, 12/10/1991

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Millenbeck Prong**

TMDL Group ID: **01083**

VAP-E26E_MIP01A00	**Millenbeck Prong**	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187B, 3/27/2002. Size adjusted in 2006, although area did not change CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01083	**1998**	**2010**	VAP-E26E-32 VDH shellfish condemnation 187B, 3/27/2002

Sources: Source Unknown

TMDL Watershed Name: **Morattico Creek**

TMDL Group ID: **01034**

VAP-E25E_MTT01A00	**Morattico Creek**	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.33 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01034	**2004**	**2016**	VAP-E25E-16 Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.

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

TMDL Group ID: **01062**

VAP-E25E_MTT01A00	**Morattico Creek**	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.33 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01062	**1998**	**2010**	VAP-E25E-12 VDH shellfish condemnation 120A, 9/23/2004 Expanded in 2006

Sources: Source Unknown

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mosquito Creek**

TMDL Group ID: **01085**

VAP-E26E_MOS01A00	Mosquito Creek	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 203, 11/6/2003. Expanded in 2006 cycle RPPMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.03 SQUARE MILES	01085	**2002**	**2014**	VAP-E26E-04 VDH-DSS Shellfish Condemnation 203, 11/6/2003

Sources: Source Unknown

TMDL Watershed Name: **Mount Landing Creek**

TMDL Group ID: **00650**

VAP-E23R_MTL01A98	Mount Landing Creek	ESSEX CO	Mount Landing Creek from the first tributary upstream of the Route 716 bridge downstream to the tidal limit at approximately river mile 4.44.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	1.19 MILES	00650	**1998**	**2010**	VAP-E23R-02 During the 2006 cycle, the "Natural Conditions Assessment for low pH, Mount Landing Creek, Essex, Virginia" recommended that Mount Landing Creek and its tributaries from its headwaters downstream to the head of tide at rivermile 4.44 be reclassified as Class VII swampwater. Until the reclassification, the streams will be assessed as Cat. 4C for pH.

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

TMDL Group ID: **01047**

VAP-E23R_MTL01A98	Mount Landing Creek	ESSEX CO	Mount Landing Creek from the first tributary upstream of the Route 716 bridge downstream to the tidal limit at approximately river mile 4.44.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	1.19 MILES	01047	**2002**	**2014**	VAP-E23R-02 In addition, the "Natural Conditions Assessment for low DO, Mount Landing Creek, Essex, Virginia" recommended that Mount Landing Creek from the confluence with Bull Neck Creek at rivermile 10.40 downstream to the head of tide at rivermile 4.44 be reclassified as Class VII swampwater. Until the reclassification, the streams will be assessed as Cat. 4C for DO.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mount Landing Creek**

TMDL Group ID: **01048**

VAP-E23R_MTL01A98	Mount Landing Creek	ESSEX CO	Mount Landing Creek from the first tributary upstream of the Route 716 bridge downstream to the tidal limit at approximately river mile 4.44.

VA Overall AU Category: **5A**

Use	Impairment	1.19 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01048	**2004**	**2016**	VAP-E23R-06

The segment was assessed as not supporting of the Recreation Use during the year 2004 cycle based on a fecal coliform violation rate of 4/35 at the Route 716 bridge (3-MTL004.82). During the 2006 cycle, the violation rate for FC was 0/15 and for E. coli was 1/9. Although the FC violation rate is acceptable, there has been no additional FC monitoring since 2002 and the recent E. coli monitoring is not sufficient for delisting. Therefore the segment must remain impaired based on the previous assessment until additional E. coli monitoring can be conducted.

Sources: Source Unknown

TMDL Watershed Name: **Mountain Run**

TMDL Group ID: **00110**

VAN-E09R_MTN01A00	Mountain Run	CULPEPER CO	Segment begins at the confluence with Flat Run and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5D**

Use	Impairment	7.40 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00110	**2006**	**2001**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 9 samples - 55.6%) were recorded at DEQ's ambient water quality monitoring station (3-MTN000.59) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment has been listed for a fecal coliform impairment since 1996. A fecal coliform TMDL for the Mountain Run watershed was developed and submitted to the U.S. EPA and approved on April 27, 2001. The sources of fecal coliform bacteria requiring reductions are livestock and wildlife waste delivered directly to the stream, runoff from pastureland, manure storage areas, and urban stormwater, and human contributions from straight pipes. Segment listed as Category 4A - Federal ID 20395.

Sources: Grazing in Riparian or Shoreline Zones
Impervious Surface/Parking Lot Runoff
Livestock (Grazing or Feeding Operations)
Manure Runoff
Runoff from Forest/Grassland/Parkland
Sewage Discharges in Unsewered Areas
Waterfowl
Wildlife Other than Waterfowl

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mountain Run**

TMDL Group ID: **00110**

Recreation	**Fecal Coliform**	00110	**1996**	**2001**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (10 of 25 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-MTN000.59) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. A fecal coliform TMDL for the Mountain Run watershed was developed and submitted to the U.S. EPA and approved on April 27, 2001. The sources of fecal coliform bacteria requiring reductions are livestock and wildlife waste delivered directly to the stream, runoff from pastureland, manure storage areas, and urban stormwater, and human contributions from straight pipes. Segment listed as Category 4A - Federal ID 20395.

Sources: Grazing in Riparian or Shoreline Zones
Impervious Surface/Parking Lot Runoff
Livestock (Grazing or Feeding Operations)
Manure Runoff
Runoff from Forest/Grassland/Parkland
Sewage Discharges in Unsewered Areas
Waterfowl
Wildlife Other than Waterfowl

TMDL Group ID: **20021**

VAN-E09R_MTN05A04	**Mountain Run**	CULPEPER CO	Segment begins at the confluence with an unnamed tributary that flows from Caymore Lake and continues downstream until Lake Pelham.

VA Overall AU Category: **5A**

Use	Impairment	1.57 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		20021	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 8 samples - 62.5%) were recorded at DEQ's ambient water quality monitoring station (3-MTN027.08) at the Route 641 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		20021	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 9 samples - 44.4%) were recorded at DEQ's ambient water quality monitoring station (3-MTN027.08) at the Route 641 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mountain Run**

TMDL Group ID: **60096**

VAN-E17R_MTR02A02	Mountain Run	ORANGE CO	Segment begins at the headwaters of Mountain Run and continues downstream until the confluence with Mill Run.

VA Overall AU Category: **5A**

Use	Impairment	7.35 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60096	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 12 samples - 50.0%) were recorded at DEQ's special study monitoring station (3-MTR010.60) at the Route 666 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60137**

VAN-E09R_MTN01A00	Mountain Run	CULPEPER CO	Segment begins at the confluence with Flat Run and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5D**

Use	Impairment	7.40 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60137	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel consumption to no more than two meals per month. The affected stretch of Mountain Run extends roughly 19 miles, from the Route 15/29 bridge crossing near Culpeper City downstream until the confluence with the Rappahannock River.

Sources: Source Unknown

VAN-E09R_MTN02A04	Mountain Run	CULPEPER CO	Segment begins at the confluence with Jonas Run and continues downstream until the confluence with Flat Run.

VA Overall AU Category: **5A**

Use	Impairment	5.30 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60137	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel consumption to no more than two meals per month. The affected stretch of Mountain Run extends roughly 19 miles, from the Route 15/29 bridge crossing near Culpeper City downstream until the confluence with the Rappahannock River.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mountain Run**

TMDL Group ID: **60137**

VAN-E09R_MTN03A00	Mountain Run	CULPEPER CO	Segment begins at the Route 15/29 bridge crossing and continues downstream until the confluence with Jonas Run.

VA Overall AU Category: **5A**

Use	Impairment	7.05 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60137	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel consumption to no more than two meals per month. The affected stretch of Mountain Run extends roughly 19 miles, from the Route 15/29 bridge crossing near Culpeper City downstream until the confluence with the Rappahannock River.

Sources: Source Unknown

TMDL Group ID: **60152**

VAN-E09R_MTN04A04	Mountain Run	CULPEPER CO	Segment begins at the outlet from Lake Pelham and continues downstream until the Route 15/29 bridge crossing.

VA Overall AU Category: **5A**

Use	Impairment	4.48 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		60152	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 8 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (3-MTN022.49) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Mud Creek**

TMDL Group ID: **10076**

VAP-E25R_MUC01A00	Mud Creek	MIDDLESEX CO	Mud Creek from its headwaters to the extent of tidal influence.

VA Overall AU Category: **5C**

Use	Impairment	2.84 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		10076	**2006**	**2016**	VAP-E25R-01 Mud Creek was assessed as not supporting the Aquatic Life Use support goal based on a dissolved oxygen violation rate of 4/11 and a pH violation rate of 9/11 at 3-MUC002.31. The station was mistakenly classified as tidal during the 2004 cycle. Therefore, although the DO impairment was only first assigned to this segment in 2006, the TMDL due date is 2016.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mud Creek**

TMDL Group ID: **10077**

VAP-E25R_MUC01A00	Mud Creek	MIDDLESEX CO	Mud Creek from its headwaters to the extent of tidal influence.

VA Overall AU Category: **5C**

Use	Impairment	2.84 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		10077	**2006**	**2018**	VAP-E25R-01 Mud Creek was assessed as not supporting the Aquatic Life Use support goal based on a dissolved oxygen violation rate of 4/11 and a pH violation rate of 9/11 at 3-MUC002.31.

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

TMDL Group ID: **10078**

VAP-E25E_MUC01A04	Mud Creek	MIDDLESEX CO	Described in VDH SFC 027-090A, 11/15/2004 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.19 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		10078	**2006**	**2018**	VAP-E25E-06 VDH Shellfish Condemnation 027-090A, 11/15/2004 The Shellfish TMDL report for "Rappahannock River: Mud and Parrotts Creeks" was approved by EPA on 11/15/2005. However, Mud Creek was open for harvest and the monitoring station was not included in the TMDL.

Sources: Source Unknown

TMDL Watershed Name: **Muddy Creek**

TMDL Group ID: **00851**

VAN-E21R_MUY01A00	Muddy Creek	KING GEORGE CO STAFFORD CO	Segment begins at the confluence with an unnamed tributary to Muddy Creek, approximately 0.7 rivermile downstream from Route 218, and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5C**

Use	Impairment	3.87 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00851	**2004**	**2016**	Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous pH criterion (1 of 4 samples - 25.0%) is categorized as not assessed, no data has been collected from the DEQ's ambient water quality monitoring station (3-MUY001.43) at Route 3 since the previous assessment window. The segment shall remain categorized as impaired.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mulberry Creek**

TMDL Group ID: **01063**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E25E_MUB01A02	**Mulberry Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.27	SQUARE MILES	01063	**1998**	**2010**	VAP-E25E-13 VDH shellfish condemnation 023-121A, 9/23/2004 - Size reduced in 2006 cycle.

Sources: Source Unknown

TMDL Group ID: **01064**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E25E_MUB01A02	**Mulberry Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	0.27	SQUARE MILES	01064	**1998**	**2016**	VAP-E25E-13 In 2004, the segment was assessed as not supporting the Recreation Use due to a fecal coliform violation rate of 2/18 at 3-MUB000.46, located at the end of Route 748. There has been no additional monitoring since 2001. The TMDL is due in 2016. The size was adjusted in 2006 to remain coincident with the shellfish condemnation.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mulberry Creek**

TMDL Group ID: **10075**

VAP-E25E_MUB01A02 **Mulberry Creek** LANCASTER CO

The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004

Size reduced in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.27 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		10075	**2006**	**2018**	VAP-E25E-03 Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	**Chloride**		10075	**2006**	**2018**	VAP-E25E-03 Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

VAP-E25E_MUB02A06 **Mulberry Creek** LANCASTER CO

Downstream of VDH shellfish condemnation 023-021A, 9/23/2004

Size reduced in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		10075	**2006**	**2018**	VAP-E25E-03 Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	**Chloride**		10075	**2006**	**2018**	VAP-E25E-03 Mulberry Creek was assessed as impaired of the Aquatic Life Use based on chloride violations at 3-MUB000.46. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Mulberry Creek**

TMDL Group ID: **90705**

VAP-E25E_MTT01A00 **Morattico Creek** RICHMOND CO

The segment is delineated in VDH SFC 023-120A, 9/23/2004

Expanded in 2006 and incorporates previous segment MTT02A00

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Wildlife	**Chloride**	0.33	SQUARE MILES	90705	**2004**	**2016**	VAP-E25E-16

Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.

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

TMDL Watershed Name: **Mussell Swamp**

TMDL Group ID: **10103**

VAP-E23R_MUS01A04 **Mussell Swamp** ESSEX CO

Headwaters to tidal limit

VA Overall AU Category: **5C**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	4.13	MILES	10103	**2006**	**2018**	VAP-E23R-12

In 2006, Mussell Swamp was assessed as impaired for the Aquatic Life Use based on a DO violation rate of 2/16 at 3-MUS001.23. Although natural conditions are suspected, the segment is assessed as Cat. 5C until the natural conditions assessment for DO can be performed.

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

TMDL Watershed Name: **Myer Creek**

TMDL Group ID: **01086**

VAP-E26E_MYE01A00 **Myer Creek** LANCASTER CO

The boundaries are described in VDH shellfish condemnation 198B, 11/6/2003.

Size adjusted in 2006

CRRMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.08	SQUARE MILES	01086	**1998**	**2010**	VAP-E26E-05

VDH shellfish condemnation 21-198B, 11/6/2003

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Myer Creek**

TMDL Group ID: **01086**

TMDL Group ID: **01087**

VAP-E26E_MYE01B02 **Myer Creek, UT** LANCASTER CO

As described in VDH-DSS SFC 21-198C, 11/6/2003.

Size adjusted in 2006, although area did not change

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01087	**2002**	**2014**	VAP-E26E-31

VDH-DSS Shellfish Condemnation 21-198C, 11/6/2003

Sources: Source Unknown

TMDL Group ID: **01088**

VAP-E26E_MYE01C04 **Myer Creek** LANCASTER CO

Described in VDH Condemnation 21-198A, 11/6/2003

CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01088	**2004**	**2016**	VAP-E26E-36

VDH Shellfish Condemnation 21-198A, 11/6/2003

Sources: Source Unknown

TMDL Watershed Name: **Occupacia Creek**

TMDL Group ID: **00255**

VAP-E22R_OCC01A98 **Occupacia Creek** ESSEX CO

Occupacia Creek from Hunters Millpond downstream to the tidal limit.

VA Overall AU Category: **5A**

Use	Impairment	2.76 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00255	**2006**	**2014**	VAP-E22R-01

Occupacia Creek was initially assessed as impaired of the Recreation Use during the 2002 cycle. During the 2006 cycle, the segment remained not supporting based on a fecal coliform violation rate of3/19 at the Route 17 bridge (3-OCC010.47). In addition, in 2006 the segment is also impaired for E. coli based on a violation rate of 2/11 at 3-OCC010.47. The bacteria TMDL is due in 2014.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Occupacia Creek**

TMDL Group ID: **00255**

Recreation	**Fecal Coliform**	00255	**2002**	**2014**	VAP-E22R-01

Occupacia Creek was initially assessed as impaired of the Recreation Use during the 2002 cycle. During the 2006 cycle, the segment remained not supporting based on a fecal coliform violation rate of3/19 at the Route 17 bridge (3-OCC010.47). In addition, in 2006 the segment is also impaired for E. coli based on a violation rate of 2/11 at 3-OCC010.47. The bacteria TMDL is due in 2014.

Sources: Source Unknown

TMDL Group ID: **00648**

VAP-E22R_OCC01A98 **Occupacia Creek** ESSEX CO Occupacia Creek from Hunters Millpond downstream to the tidal limit.

VA Overall AU Category: **5A**

Use	Impairment	2.76 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00648	**2002**	**2010**	VAP-E22R-01

Since 2002, Occupacia Creek from the Hunters Millpond dam downstream to the tidal limit has been assessed as not supporting for the Aquatic Life Use based on pH violations at 3-OCC010.47. During the 2006 cycle, a Natural Conditions Assessment for low pH in Occupacia Creek was performed. The report recommends that the nontidal Occupacia Creek watershed above the fall line (including Black Water Creek and its tribs) be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.

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

TMDL Group ID: **90800**

VAP-E22R_OCC01B06 **Occupacia Creek and tributaries** ESSEX CO Occupacia Creek from the headwaters to Hunters Millpond dam, and all tribs entering above the tidal limit.

VA Overall AU Category: **5C**

Use	Impairment	37.10 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		90800	**2006**	**2018**	VAP-E22R-03

Since 2002, Occupacia Creek from the Hunters Millpond dam downstream to the tidal limit has been assessed as not supporting for the Aquatic Life Use based on pH violations at 3-OCC010.47. During the 2006 cycle, a Natural Conditions Assessment for low pH in Occupacia Creek was performed. The report recommends that the tidal Occupacia Creek watershed above the fall line (including Black Water Creek and its tribs) be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Occupacia Creek and tributaries**

TMDL Group ID: **10111**

VAP-E22R_OCC01B06	Occupacia Creek and tributaries	ESSEX CO	Occupacia Creek from the headwaters to Hunters Millpond dam, and all tribs entering above the tidal limit.

VA Overall AU Category: **5C**

Use	Impairment	37.10 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		10111	**2006**	**2018**	VAP-E22R-03 Since 2002, Occupacia Creek from the Hunters Millpond dam downstream to the tidal limit has been assessed as not supporting for the Aquatic Life Use based on pH violations at 3-OCC010.47. During the 2006 cycle, a Natural Conditions Assessment for low pH in Occupacia Creek was performed. The report recommends that the tidal Occupacia Creek watershed above the fall line (including Black Water Creek and its tribs) be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH. The segment also shows impairment for dissolved oxygen. Although the low DO is believed to be caused by natural low-slope conditions, the segment is assessed as Cat. 5C.

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

TMDL Watershed Name: **Parrotts Creek**

TMDL Group ID: **00199**

VAP-E25E_PRR01A02	Parrotts Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 027-090B, 11/15/2004. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		00199	**1998**	**2005**	Category 4A VAP-E25E-07 The Shellfish TMDL report for "Rappahannock River: Mud and Parrotts Creeks" was approved by EPA on 11/15/2005. Therefore, the shellfish impairment is considered Cat. 4A.

Sources: Non-Point Source

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Piscataway Creek**

TMDL Group ID: **01029**

VAP-E23E_PIS02A00 **Piscataway Creek** ESSEX CO The estuarine portion of Piscataway Creek.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.71 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01029	**2004**	**2016**	VAP-E23E-04 In the 2004 cycle, the segment was assessed not supporting of the Aquatic Life and Wildlife Uses due to chloride violations. This TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01029	**2004**	**2016**	VAP-E23E-04 In the 2004 cycle, the segment was also assessed not supporting of the Aquatic Life and Wildlife Uses due to chloride violations. This TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

TMDL Group ID: **01039**

VAP-E23E_PIS02A00 **Piscataway Creek** ESSEX CO The estuarine portion of Piscataway Creek.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.71 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		01039	**2002**	**2014**	VAP-E23E-04 The tidal Piscataway Creek was assessed not supporting of the Aquatic Life Use in 2002 based on a pH violation rate of 2/19 at the Route 17 bridge (3-PIS004.79). The pH TMDL was due in 2014, however a Natural Conditions Assessment was performed on the Piscataway Creek watershed during the 2006 cycle. The report recommends that the creek and its tributaries be reclassified as Class VII swampwaters. Until the WQS can be changed, the segment will be considered Cat. 4C for pH.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

TMDL Group ID: **01040**

VAP-E23E_PIS02A00 **Piscataway Creek** ESSEX CO The estuarine portion of Piscataway Creek.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.71 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01040	**1998**	**2010**	VAP-E23E-01 Portion of VDH-DSS Shellfish Condemnation 068A, 3/26/2004
		Sources: Source Unknown				

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Piscataway Creek Watershed**

TMDL Group ID: **00651**

VAP-E23R_MUS01A04 **Mussell Swamp** ESSEX CO Headwaters to tidal limit

VA Overall AU Category: **5C**

Use	Impairment	4.13 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00651	**2006**	**2018**	VAP-E23R-03

Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.

During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the ""Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia"" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.

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

VAP-E23R_XFM01A04 **UT to Piscataway Creek** ESSEX CO Headwaters to mouth

VA Overall AU Category: **5C**

Use	Impairment	3.01 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00651	**2006**	**2018**	VAP-E23R-03

Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.

During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the ""Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia"" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Piscataway Creek Watershed**

TMDL Group ID: **00651**

VAP-E23R_XFN01A04	UT to Piscataway Creek	ESSEX CO	Headwaters to mouth at Piscataway Creek

VA Overall AU Category: **5C**

Use	Impairment	3.25 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00651	**2006**	**2018**	VAP-E23R-03

Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.

During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the ""Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia"" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.

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

TMDL Watershed Name: **Piscataway Creek, Unnamed Tributary**

TMDL Group ID: **10101**

VAP-E23R_XFN01A04	UT to Piscataway Creek	ESSEX CO	Headwaters to mouth at Piscataway Creek

VA Overall AU Category: **5C**

Use	Impairment	3.25 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		10101	**2006**	**2018**	VAP-E23R-10

During the 2006 cycle, UT XFN was assessed as impaired of the Aquatic Life Use based on a dissolved oxygen violation rate of 2/15 at 3-XFN000.01. Natural conditions are suspected, therefore the segment is assessed as Cat. 5C until the natural conditions assessment for DO can be performed.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Piscataway Creek, Unnamed Tributary**

TMDL Group ID: **10102**

VAP-E23R_XFM01A04	UT to Piscataway Creek	ESSEX CO	Headwaters to mouth

VA Overall AU Category: **5C**

Use	Impairment	3.01 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		10102	**2006**	**2018**	VAP-E23R-11 During the 2006 cycle, UT XFM was assessed as impaired of the Aquatic Life Use based on a dissolved oxygen violation rate of 2/18 at 3-XFM000.82. Natural conditions are suspected.

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

TMDL Watershed Name: **Rapidan River**

TMDL Group ID: **00320**

VAN-E18R_RAP03A02	Rapidan River	CULPEPER CO SPOTSYLVANIA CO	Segment begins at the confluence with Wilderness Run, rivermile 7.78, and continues downstream until the confluence with Middle Run.

VA Overall AU Category: **5A**

Use	Impairment	2.68 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00320	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (7 of 12 samples - 58.3%) were recorded at DEQ's ambient water quality monitoring station (3-RAP006.53) at the Route 610 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform, beginning in 2002.

Sources: Source Unknown

TMDL Group ID: **00844**

VAN-E13R_RAP01A00	Rapidan River	MADISON CO ORANGE CO	Segment begins at the confluence with Poplar Run and continues downstream until the confluence with the Robinson River.

VA Overall AU Category: **5A**

Use	Impairment	7.50 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00844	**2006**	**2014**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 14 samples - 42.8%) were recorded at DEQ's ambient water quality monitoring station (3-RAP045.08) at the Route 15 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform bacteria impairment, beginning in 2002, but is no longer applicable since enough E.coli sampling events have occurred.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rapidan River**

TMDL Group ID: **60082**

VAN-E12R_RAP01A00 **Rapidan River** GREENE CO, MADISON CO — Segment begins at the Route 29 crossing, at rivermile 66.54, and continues downstream until the confluence with White Run.

VA Overall AU Category: **5A**

Use	Impairment	2.07 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60082	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 15 samples - 26.7%) were recorded at DEQ's ambient water quality monitoring station (3-RAP066.54) at the Route 29 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

VAN-E12R_RAP01B06 **Rapidan River** GREENE CO, MADISON CO — Segment begins at the confluence with the Conway River and continues downstream until the Route 29 crossing, at rivermile 66.54.

VA Overall AU Category: **5A**

Use	Impairment	4.86 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60082	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 15 samples - 26.7%) were recorded at DEQ's ambient water quality monitoring station (3-RAP066.54) at the Route 29 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60087**

VAN-E13R_RAP02A06 **Rapidan River** MADISON CO, ORANGE CO — Segment begins at the confluence with Marsh Run and continues downstream until the confluence with Blue Run.

VA Overall AU Category: **5A**

Use	Impairment	4.59 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60087	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 6 samples - 33.3%) were recorded at DEQ's ambient water quality monitoring station (3-RAP055.84) at the Route 231 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

Recreation	**Fecal Coliform**		60087	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 11 samples - 27.3%) were recorded at DEQ's ambient water quality monitoring station (3-RAP055.84) at the Route 231 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rapidan River**

TMDL Group ID: **60094**

VAN-E16R_RAP01A04	Rapidan River	CULPEPER CO ORANGE CO	Segment begins at the confluence with an unnamed tributary to the Rapidan River, at rivermile 34.5, approximately 0.6 rivermile downstream from Route 689, and continues downstream until the confluence with Cedar Run.

VA Overall AU Category: **5A**

Use	Impairment	4.58 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60094	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (7 of 15 - 46.7%) were recorded at DEQ's ambient water quality monitoring station (3-RAP030.21) at the Route 522 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Rapidan River, Unnamed Tributary**

TMDL Group ID: **00845**

VAN-E13R_XEZ01A04	Unnamed tributary to the Rapidan River	ORANGE CO	Segment begins at the headwaters of the unnamed tributary and continues downstream until the confluence with the Rapidan River.

VA Overall AU Category: **5A**

Use	Impairment	2.57 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00845	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 5 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-XEZ000.12) at the Route 634 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform bacteria impairment, beginning in 2004.

Sources: Source Unknown

Recreation	**Fecal Coliform**		00845	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 7 samples - 42.8%) were recorded at DEQ's ambient water quality monitoring station (3-XEZ000.12) at the Route 634 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60088**

VAN-E13R_XBO01A04	Unnamed tributary to Rapidan River	MADISON CO	Segment begins at the headwaters of the unnamed tributary and continues downstream until the confluence with the Rapidan River.

VA Overall AU Category: **5A**

Use	Impairment	3.91 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		60088	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 7 samples - 71.4%) were recorded at DEQ's ambient water quality monitoring station (3-XBO000.26) at the Route 621 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **01028**

VAP-E22E_RPP01A02 **Rappahannock River** ESSEX CO WESTMORELAND CO

The Rappahannock River from Devils Elbow at Toby Point and Green Bay (river mile 70.52) downstream to the tidal freshwater/oligohaline boundary at river mile 57.85.

RPPTF

VA Overall AU Category: **5A**

Use	Impairment	5.42 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

VAP-E22E_RPP02A02 **Rappahannock River** ESSEX CO WESTMORELAND CO

The Rappahannock River from the tidal freshwater/oligohaline boundary downstream to river mile 51.04.

RPPOH

VA Overall AU Category: **5A**

Use	Impairment	0.32 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **01028**

VAP-E22E_RPP03A02 **Rappahannock River** ESSEX CO RICHMOND CO

The Rappahannock River from river mile 51.04 to river mile 49.04.

RPPOH

VA Overall AU Category: **5A**

Use	Impairment	1.60 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

VAP-E22E_RPP04A02 **Rappahannock River** ESSEX CO RICHMOND CO

The Rappahannock River from river mile 49.04 downstream to the oligohaline/mesohaline boundary at approximately river mile 48.51.

RPPOH

VA Overall AU Category: **5A**

Use	Impairment	0.93 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **01028**

VAP-E22E_RPP05A02 — **Rappahannock River** — ESSEX CO, RICHMOND CO

The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23.

2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	6.95 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

VAP-E23E_RPP02A98 — **Rappahannock River** — ESSEX CO, RICHMOND CO

Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004.

Segment extended in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	5.48 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **01028**

VAP-E23E_RPP03A00 — **Rappahannock River** — ESSEX CO, RICHMOND CO

The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	20.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

VAP-E24E_RPP01C06 — **Rappahannock River** — RICHMOND CO

The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **01028**

VAP-E24E_RPP02B06 **Rappahannock River** ESSEX CO RICHMOND CO

The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

VAP-E25E_RPP01A02 **Rappahannock River** ESSEX CO RICHMOND CO

The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico

Size adjusted in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	12.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **01028**

VAP-E25E_RPP03A06 **Rappahannock River** RICHMOND CO

Described in VDH SFC 024-M192, 4/1/1995

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08, VAN-E20E-03, VAP-E22E-01 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01028	**2004**	**2016**	VAP-E22E-08 The lower tidal freshwater and transitional areas of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

TMDL Group ID: **01041**

VAP-E23E_RPP02A98 **Rappahannock River** ESSEX CO RICHMOND CO

Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004.

Segment extended in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	5.48 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01041	**1998**	**2010**	VAP-E23E-01 VDH Shellfish Condemnation 068A, 3/24/2004 Expanded in 2006
		Sources: Source Unknown				

VAP-E23E_ZZZ02A06 **Unsegmented estuaries in E23** ESSEX CO RICHMOND CO

Unsegmented portion within SFC 068A, 3/26/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01041	**2006**	**2010**	VAP-E23E-01 VDH Shellfish Condemnation 068A, 3/26/2004
		Sources: Source Unknown				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **01089**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E26E_RPP02A00	**Rappahannock River**	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051A. Size corrected in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.13 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01089	**1998**	**2010**	VAP-E26E-22 VDH Shellfish Condemnation 051A, 9/10/1997

Sources: Source Unknown

TMDL Group ID: **01090**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E26E_RPP04A00	**Rappahannock River**	MIDDLESEX CO	VDH Shellfish Condemnation 051B, 9/10/1997 Sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01090	**1998**	**2010**	VAP-E26E-23 VDH Shellfish Condemnation 051B, 9/10/1997

Sources: Source Unknown

TMDL Group ID: **01091**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E26E_RPP07A02	**Rappahannock River**	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993 RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01091	**2002**	**2014**	VAP-E26E-28 VDH-DSS Shellfish Condemnation 053A, 9/16/1993

Sources: Municipal Point Source Discharges

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10069**

VAP-E22E_RPP01A02	Rappahannock River	ESSEX CO WESTMORELAND CO	The Rappahannock River from Devils Elbow at Toby Point and Green Bay (river mile 70.52) downstream to the tidal freshwater/oligohaline boundary at river mile 57.85. RPPTF

VA Overall AU Category: **5A**

Use	Impairment	5.42 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10069	**2006**	**2010**	VAN-E20E-02 The tidal freshwater Rappahannock failed the SAV acreage requirements of the Shallow Water subuse during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10069	**2006**	**2010**	VAN-E20E-02 The tidal freshwater Rappahannock failed the SAV acreage requirements of the Shallow Water Use during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10069**

VAP-E22E_ZZZ01A00	Unsegmented estuaries in E22	ESSEX CO WESTMORELAND CO	Unsegmented portion of watershed. RPPTF

VA Overall AU Category: **5A**

Use	Impairment	0.29 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10069	**2006**	**2010**	VAN-E20E-02 The tidal freshwater Rappahannock River failed the SAV acreage requirements for the Shallow Water Use during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10069	**2006**	**2010**	VAN-E20E-02 The tidal freshwater Rappahannock River failed the SAV acreage requirements for the Shallow Water Use during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10070**

VAP-E22E_RPP01A02 — **Rappahannock River** — ESSEX CO, WESTMORELAND CO

The Rappahannock River from Devils Elbow at Toby Point and Green Bay (river mile 70.52) downstream to the tidal freshwater/oligohaline boundary at river mile 57.85.

RPPTF

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	5.42	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River from the I-95 bridge above Fredericksburg to the mouth near Stingray Point is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E22E_RPP02A02 — **Rappahannock River** — ESSEX CO, WESTMORELAND CO

The Rappahannock River from the tidal freshwater/oligohaline boundary downstream to river mile 51.04.

RPPOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.32	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River from the I-95 bridge above Fredericksburg to the mouth near Stingray Point is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E22E_RPP03A02 — **Rappahannock River** — ESSEX CO, RICHMOND CO

The Rappahannock River from river mile 51.04 to river mile 49.04.

RPPOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	1.60	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10070**

VAP-E22E_RPP04A02 | **Rappahannock River** | ESSEX CO, RICHMOND CO

The Rappahannock River from river mile 49.04 downstream to the oligohaline/mesohaline boundary at approximately river mile 48.51.

RPPOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.93	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E22E_RPP05A02 | **Rappahannock River** | ESSEX CO, RICHMOND CO

The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23.

2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	6.95	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E23E_RPP02A98 | **Rappahannock River** | ESSEX CO, RICHMOND CO

Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004.

Segment extended in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	5.48	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10070**

VAP-E23E_RPP03A00 — **Rappahannock River** — ESSEX CO, RICHMOND CO

The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	20.03	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03 The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E24E_RPP01C06 — **Rappahannock River** — RICHMOND CO

The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.16	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03 The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E24E_RPP02B06 — **Rappahannock River** — ESSEX CO, RICHMOND CO

The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.03	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03 The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10070**

VAP-E25E_RPP01A02 — **Rappahannock River** — ESSEX CO, RICHMOND CO

The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico

Size adjusted in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	12.20	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E25E_RPP02A02 — **Rappahannock River** — LANCASTER CO, MIDDLESEX CO

The mainstem of the Rappahannock River from Buoy 11 near Morattico downstream to the mouth, excluding area in SFC 051A.

Multiple Rappahannock segments merged together in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	66.80	SQUARE MILES	10070	**2006**	**2010**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E25E_RPP03A06 — **Rappahannock River** — RICHMOND CO

Described in VDH SFC 024-M192, 4/1/1995

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.01	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10070**

VAP-E26E_RPP02A00 | **Rappahannock River** | MIDDLESEX CO

The Rappahannock River in the area delineated in VDH shellfish condemnation 051A.

Size corrected in 2006 cycle.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.13	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E26E_RPP03A00 | **Rappahannock River** | MIDDLESEX CO

The Rappahannock River in the area delineated in VDH shellfish condemnation 051D, 9/10/1997.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.03	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E26E_RPP04A00 | **Rappahannock River** | MIDDLESEX CO

VDH Shellfish Condemnation 051B, 9/10/1997

Sq. mileage adjusted in 2006, although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.02	SQUARE MILES	10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River**

TMDL Group ID: **10070**

VAP-E26E_RPP05A00 **Rappahannock River** MIDDLESEX CO

The area delineated in VDH shellfish condemnation 051E, 9/10/1997

RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.14 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		10070	**2006**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

VAP-E26E_RPP07A02 **Rappahannock River** LANCASTER CO

As delineated in VDH-DSS SFC 053A, 9/16/1993

RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		10070	**2002**	**2018**	VAN-E20E-03

The Rappahannock River is under a 12/13/2004 VDH fish consumption advisory for PCBs in American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, anadromous (coastal) striped bass.

Sources: Source Unknown

TMDL Watershed Name: **Rappahannock River and Totuskey Creek**

TMDL Group ID: **01053**

VAP-E24E_RPP01C06 **Rappahannock River** RICHMOND CO

The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01053	**2006**	**2010**	VAP-E24E-06/VAP-E24E-02

Previous condemnations included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated. However, in 2006 the segments were both recombined under 025-071A, 12/22/2004 and extended into the Rappahannock (see VAP-E24E-06)

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River and Totuskey Creek**

TMDL Group ID: **01053**

VAP-E24E_TOT02A00	Totuskey Creek	RICHMOND CO	Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004). RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.75 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01053	**1998**	**2010**	VAP-E24E-01 Portion of VDH condemnation 025-071A, 12/22/2004 Previous condemnations included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated. However, in 2006 the segments were both recombined under 025-071A, 12/22/2004 and extended into the Rappahannock (see VAP-E24E-06)

Sources: Municipal Point Source Discharges
Source Unknown

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E22E_RPP05A02	**Rappahannock River**	ESSEX CO RICHMOND CO	The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23. 2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended RPPMH

VA Overall AU Category: **5A**

Use	Impairment	6.95 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek . In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Juristiction or Borders

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E22E_ZZZ02A06 **Unsegmented estuaries in E22** ESSEX CO WESTMORELAND CO Unsegmented portion of watershed.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E23E_CAT01A02 **Cat Point Creek** RICHMOND CO The tidal portion of Cat Point Creek.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	1.43 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E23E_HOK01A98	**Hoskins Creek**	ESSEX CO	Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E23E_LIE01A98 | **Little Carter Creek, Jugs Creek** | RICHMOND CO | The segment boundaries are defined in VDH shellfish condemnation 068B, 3/6/2002.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.32 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E23E_PIS02A00	Piscataway Creek	ESSEX CO	The estuarine portion of Piscataway Creek. RPPMH

VA Overall AU Category: **5A**

Use	Impairment (0.71 SQUARE MILES)	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				
Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
	Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E23E_RPP02A98	**Rappahannock River**	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	5.48 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. The mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. The mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E23E_RPP03A00	**Rappahannock River**	ESSEX CO RICHMOND CO	The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	20.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E23E_ZZZ01A00 **Unsegmented estuaries in E23** ESSEX CO RICHMOND CO Unsegmented portion

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.00 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E23E_ZZZ01A06 **Unsegmented estuaries in E23** ESSEX CO RICHMOND CO Unsegmented portion within 068B & 068C, 3/26/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.21 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E23E_ZZZ02A06 **Unsegmented estuaries in E23** ESSEX CO RICHMOND CO Unsegmented portion within SFC 068A, 3/26/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E24E_RIC01A04 **Richardson Creek** RICHMOND CO Tidal limit to mouth (within SFC 025-071A, 12/22/2004)

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.15 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E24E_RPP01B98 **Garrett's Marina** ESSEX CO

The segment boundaries are delineated in VDH shellfish condemnation 181A, 11/6/1995.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.00 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E24E_RPP01C06	**Rappahannock River**	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E24E_RPP02B06 **Rappahannock River** ESSEX CO, RICHMOND CO — The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2004**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

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

VAP-E24E_TOT01A00 **Totuskey Creek** RICHMOND CO

The segment boundary is delineated in VDH condemnation 071B, 12/22/2004.

Sq. mileage adjusted in 2006, although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E24E_TOT02A00 **Totuskey Creek** RICHMOND CO

Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004).

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.75 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_DEE01A04	**Deep Creek**	LANCASTER CO	Described in VDH shellfish condemnation 023-121B, 9/23/2004. In 2002, Deep Creek was split into 3 segments. In 2004, the condemnation was expanded and the segments were joined. Size adjusted in 2006. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_FAM01A98 **Farnham Creek** RICHMOND CO

The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000

Sq. mileage adjusted in 2006 although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.41 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

VAP-E25E_GEE01A98 **Greenvale Creek** LANCASTER CO

The segment boundaries are delineated in VDH shellfish condemnation 094A, 2/5/2003.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_GEE02A06 **Greenvale Creek** LANCASTER CO Described in VDH SFC 094B, 2/5/2003

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E25E_HRY01A06 **Harry George Creek** MIDDLESEX CO Designated in VDH SFC 202B, 9/3/2003

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_LAN01A98	**Lancaster Creek**	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.46 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_LAN02A02	**Lancaster Creek**	LANCASTER CO RICHMOND CO	The mouth of Lancaster Creek downstream of VDH SFC 120B, 9/23/2004, not otherwise segmented. Size increased in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	1.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_LAN03A06 **Lancaster Creek** RICHMOND CO

Described in VDH SFC 023-120M1, 9/23/2004

Size increased in 2006 cycle.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_LGG01A98 **Lagrange Creek** MIDDLESEX CO

As described in VDH SFC 127, 6/11/1996.

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.60 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_LGG02A06	**Lagrange Creek**	MIDDLESEX CO	As described in VDH SFC 127, 2/25/2004, not otherwise segmented. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.60 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E25E_MAO01A00 **Masons Mill Swamp** MIDDLESEX CO Tidal Masons Mill Swamp watershed - expanded in 2006.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.17 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_MTT01A00	**Morattico Creek**	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.33 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_MUB01A02	**Mulberry Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.27 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_MUB02A06 **Mulberry Creek** LANCASTER CO

Downstream of VDH shellfish condemnation 023-021A, 9/23/2004

Size reduced in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_MUC01A04 **Mud Creek** MIDDLESEX CO

Described in VDH SFC 027-090A, 11/15/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.19 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2004**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_PAY01A02	**Paynes Creek**	LANCASTER CO	As delineated in VDH-DSS SFC 114, 4/27/1989. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E25E_PRR01A02 **Parrotts Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 027-090B, 11/15/2004.

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_ROS01A00 **Robinson Creek** MIDDLESEX CO

Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997.

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.18 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

VAP-E25E_ROS02A04 **Robinson Creek** MIDDLESEX CO

Described in VDH Shellfish Condemnation 177, 2/25/2004, not otherwise segmented

Extended in 2006 cycle

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.29 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_RPP01A02	**Rappahannock River**	ESSEX CO RICHMOND CO	The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico Size adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	12.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006. In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Deep-Water Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01 The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream. The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.

Sources: Agriculture

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.

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

VAP-E25E_RPP01C98 **Rappahannock River - Mark Haven Beach** ESSEX CO

The segment boundaries are delineated in VDH shellfish condemnation 026-181B, 11/6/1996.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_RPP02A02 **Rappahannock River** LANCASTER CO, MIDDLESEX CO

The mainstem of the Rappahannock River from Buoy 11 near Morattico downstream to the mouth, excluding area in SFC 051A.

Multiple Rappahannock segments merged together in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	66.80 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water applicable dissolved oxygen criteria in 2006.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Deep-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_RPP03A06	**Rappahannock River**	RICHMOND CO	Described in VDH SFC 024-M192, 4/1/1995
			RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2004**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E25E_URB01A00 **Urbanna Creek** MIDDLESEX CO

As described in VDH-DSS SFC 42B, 9/17/1993.

Sq. mileage adjusted in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E25E_URB02A00 **Urbanna Creek** MIDDLESEX CO

As delineated in VDH shellfish condemnation 042A, 9/17/1993.

Sq. mileage adjusted in 2006

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.24 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_WEE01A00 **Weeks Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 202, 10/8/1996.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_WEE02A04 **Weeks Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 202A, 9/3/2003, not otherwise delineated.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E25E_XDV01A02 **Beach Creek** LANCASTER CO

The segment boundaries are delineated in VDH shellfish condemnation 116A, 12/27/2004.

Expanded in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.11 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Also, applicable areas failed the deep water and deep channel dissolved oxygen criteria in 2006.

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

Deep-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the deep water dissolved oxygen criteria in 2006.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E25E_ZZZ01A00 **Unsegmented estuaries in E25** ESSEX CO RICHMOND CO Unsegmented portion of watershed

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.24 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_BPC01A98	**Rappahannock River: Bush Park Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 109, 4/27/1989. Size adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_BRD01A00	**Broad Creek**	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038B, 12/30/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_BRD02A00	Broad Creek	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_BRD03A00	**Broad Creek**	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 033-038C, 12/30/2004. Sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_BRD04A00	**Broad Creek**	MIDDLESEX CO	Described in VDH-DSS condemnation 033-038M1, 12/3/2004 Size reduced in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_CEB01A00	**Eastern Branch Carter Creek**	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004. Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.25 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_CTR01A00	**Carter Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 041D, 12/17/2004. Size adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_CTR02A00 **Carter Creek** LANCASTER CO

The segment boundaries are delineated in VDH shellfish condemnation 041B, 12/17/2004.

Size adjusted in 2006

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_CTR03A00	**Carter Creek, Eastern Branch Carter Creek**	LANCASTER CO	As described in VDH-DSS SFC 020-041M1, 12/17/2006 Segment was shortened in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_CTR04A02 **Carter Cove** LANCASTER CO As described in VDH-DSS SFC 020-041C, 12/17/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E26E_LOL01A02 **Locklies Creek** MIDDLESEX CO The segment boundaries are delineated in VDH shellfish condemnation 102A, 2/6/2004.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E26E_LOL02A06 **Locklies Creek** MIDDLESEX CO Described in VDH-DSS SFC 031-102B, 2/6/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01	The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E26E_MEA01A00 **Meachim Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 179A, 11/17/2004.

Expanded in 2006

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E26E_MEA01A06 **Meachim Creek** MIDDLESEX CO Described in VDH SFC 030-179A, 12/9/1996, not otherwise segmented.

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_MEA01B00 **Meachim Creek** MIDDLESEX CO

The segment is delineated in VDH shellfish condemnation 179B, 11/17/2004.

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

VAP-E26E_MEA01C06 **Meachim Creek** MIDDLESEX CO

Described in VDH SFC 030-179M1, 11/17/2004.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E26E_MEA02A00 **Meachim Creek** MIDDLESEX CO Downstream of VDH SFC 030-179A, 11/17/2004, not otherwise segmented.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.14 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01	The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E26E_MLL01A98 **Mill Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 103, 12/10/1991

RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E26E_MLL02A06 **Mill Creek** MIDDLESEX CO Downstream of VDH shellfish condemnation 103, 12/10/1991

RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_MOS01A00	**Mosquito Creek**	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 203, 11/6/2003. Expanded in 2006 cycle RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_RPP02A00	**Rappahannock River**	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051A. Size corrected in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.13 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_RPP03A00	**Rappahannock River**	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051D, 9/10/1997. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_RPP04A00	**Rappahannock River**	MIDDLESEX CO	VDH Shellfish Condemnation 051B, 9/10/1997
			Sq. mileage adjusted in 2006, although area did not change
			RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

VAP-E26E_RPP05A00	**Rappahannock River**	MIDDLESEX CO	The area delineated in VDH shellfish condemnation 051E, 9/10/1997 RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.14 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

Sources: Agriculture

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_RPP07A02	**Rappahannock River**	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993
			RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Assessment Unit ID	Waterbody Name	City / County*			Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Deep-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**1998**	**2010**	VAP-E22E-01

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek. In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream.

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. Also, applicable areas failed the deep water and deep channel applicable dissolved oxygen criteria in 2006.

In addition, in 2004 the mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen. The mainstem remains impaired in the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E26E_STE01A98 **Sturgeon Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 104.

Sq. mileage adjusted in 2006, although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_WHS01B00	**Whiting Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 051C, 9/10/1997 AU name fixed and sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

VAP-E26E_XEV01A02 **Windmill Point Yacht Harbor** LANCASTER CO

As delineated in VDH-DSS SFC 018-053B, 9/16/1993

AU name corrected in 2006 (prev. RPP07B02)

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

Open-Water Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

VAP-E26E_ZZZ01A00 **Unsegmented estuaries in E26** LANCASTER CO MIDDLESEX CO

Unsegmented portion of watershed

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	1.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01776	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

Sources: Agriculture

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **01776**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01776	**2006**	**2010**	VAP-E22E-01

The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria during the 2006 cycle.

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

TMDL Group ID: **10071**

VAP-E22E_RPP05A02 **Rappahannock River** ESSEX CO RICHMOND CO

The oligohaline/mesohaline boundary at river mile 48.51 downstream to the upstream limit of VDH shellfish condemnation area 068A in E23.

2006: incorporates old segments VAP-E22E_RPP06A02 & VAP-E23E_RPP01A00 & extended

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	6.95 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01

The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

Sources: Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E22E_ZZZ02A06	**Unsegmented estuaries in E22**	ESSEX CO WESTMORELAND CO	Unsegmented portion of watershed. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Clean Sediments

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

Sources: Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-E23E_CAT01A02 **Cat Point Creek** RICHMOND CO The tidal portion of Cat Point Creek.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	1.43 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
Sources Outside State Juristiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_HOK01A98	Hoskins Creek	ESSEX CO	Hoskins Creek from the Town of Tappahannock STP downstream to the mouth at the Rappahannock River. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_LIE01A98	**Little Carter Creek, Jugs Creek**	RICHMOND CO	The segment boundaries are defined in VDH shellfish condemnation 068B, 3/6/2002. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.32 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_PIS02A00	Piscataway Creek	ESSEX CO	The estuarine portion of Piscataway Creek.
			RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.71 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_RPP02A98	**Rappahannock River**	ESSEX CO RICHMOND CO	Mainstem Rappahannock as described in VDH shellfish condemnation 068A, 3/26/2004. Segment extended in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	5.48 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle. The mesohaline portion of the mainstem Rappahannock indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. The impairment was attributed to low oxygen.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_RPP03A00	**Rappahannock River**	ESSEX CO RICHMOND CO	The Rappahannock River from the VDH shellfish condemnation 068A downstream to Sharps/0.7mi DS of Mark Haven Beach. Incorporates previous segment VAP-E24E_RPP01A98 and extended. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	20.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_ZZZ01A00	**Unsegmented estuaries in E23**	ESSEX CO RICHMOND CO	Unsegmented portion RPPMH

VA Overall AU Category: **5A**

Use	Impairment (0.00 SQUARE MILES)	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_ZZZ01A06	Unsegmented estuaries in E23	ESSEX CO RICHMOND CO	Unsegmented portion within 068B & 068C, 3/26/2004 RPPMH

VA Overall AU Category: **5A**

Use	Impairment (0.21 SQUARE MILES)	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
	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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E23E_ZZZ02A06	**Unsegmented estuaries in E23**	ESSEX CO RICHMOND CO	Unsegmented portion within SFC 068A, 3/26/2004 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E24E_RIC01A04	Richardson Creek	RICHMOND CO	Tidal limit to mouth (within SFC 025-071A, 12/22/2004)
			RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.15 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E24E_RPP01B98	**Garrett's Marina**	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 181A, 11/6/1995. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.00 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E24E_RPP01C06	**Rappahannock River**	RICHMOND CO	The Rappahannock River within the VDH shellfish condemnation 025-071A, 12/22/2004 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E24E_RPP02B06	**Rappahannock River**	ESSEX CO RICHMOND CO	The Rappahannock River as described in VDH SFC 028-M271, 4/1/1995 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E24E_TOT01A00	**Totuskey Creek**	RICHMOND CO	The segment boundary is delineated in VDH condemnation 071B, 12/22/2004. Sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E24E_TOT02A00	**Totuskey Creek**	RICHMOND CO	Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004). RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.75 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_DEE01A04 **Deep Creek** LANCASTER CO

Described in VDH shellfish condemnation 023-121B, 9/23/2004.

In 2002, Deep Creek was split into 3 segments. In 2004, the condemnation was expanded and the segments were joined. Size adjusted in 2006.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_FAM01A98	**Farnham Creek**	RICHMOND CO	The segment boundaries are delineated in VDH shellfish condemnation 070, 10/17/2000 Sq. mileage adjusted in 2006 although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.41 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_GEE01A98	Greenvale Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 094A, 2/5/2003. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_GEE02A06 **Greenvale Creek** LANCASTER CO Described in VDH SFC 094B, 2/5/2003

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_HRY01A06	Harry George Creek	MIDDLESEX CO	Designated in VDH SFC 202B, 9/3/2003 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_LAN01A98	**Lancaster Creek**	LANCASTER CO RICHMOND CO	The segment boundaries are delineated in VDH SFC 120B, 9/23/2004. Size reduced in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.46 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_LAN02A02	**Lancaster Creek**	LANCASTER CO RICHMOND CO	The mouth of Lancaster Creek downstream of VDH SFC 120B, 9/23/2004, not otherwise segmented. Size increased in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	1.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_LAN03A06	**Lancaster Creek**	RICHMOND CO	Described in VDH SFC 023-120M1, 9/23/2004 Size increased in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_LGG01A98	Lagrange Creek	MIDDLESEX CO	As described in VDH SFC 127, 6/11/1996. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.60 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_LGG02A06	**Lagrange Creek**	MIDDLESEX CO	As described in VDH SFC 127, 2/25/2004, not otherwise segmented. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.60 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_MAO01A00	Masons Mill Swamp	MIDDLESEX CO	Tidal Masons Mill Swamp watershed - expanded in 2006. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.17 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_MTT01A00	**Morattico Creek**	RICHMOND CO	The segment is delineated in VDH SFC 023-120A, 9/23/2004 Expanded in 2006 and incorporates previous segment MTT02A00 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.33 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_MUB01A02	**Mulberry Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.27 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_MUB02A06	**Mulberry Creek**	LANCASTER CO	Downstream of VDH shellfish condemnation 023-021A, 9/23/2004 Size reduced in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_MUC01A04 **Mud Creek** MIDDLESEX CO Described in VDH SFC 027-090A, 11/15/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.19 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_PAY01A02	**Paynes Creek**	LANCASTER CO	As delineated in VDH-DSS SFC 114, 4/27/1989. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.04 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_PRR01A02	**Parrotts Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 027-090B, 11/15/2004. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.16 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_ROS01A00	Robinson Creek	MIDDLESEX CO	Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.18 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_ROS02A04	**Robinson Creek**	MIDDLESEX CO	Described in VDH Shellfish Condemnation 177, 2/25/2004, not otherwise segmented Extended in 2006 cycle RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.29 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_RPP01A02	**Rappahannock River**	ESSEX CO RICHMOND CO	The mainstem of the Rappahannock River from Sharps/0.7 mi DS of Mark Haven Beach to the WQS saltwater boundary at Buoy 11 near Morattico Size adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	12.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_RPP01C98	Rappahannock River - Mark Haven Beach	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 026-181B, 11/6/1996. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_RPP02A02	**Rappahannock River**	LANCASTER CO MIDDLESEX CO	The mainstem of the Rappahannock River from Buoy 11 near Morattico downstream to the mouth, excluding area in SFC 051A. Multiple Rappahannock segments merged together in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	66.80 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_RPP03A06	**Rappahannock River**	RICHMOND CO	Described in VDH SFC 024-M192, 4/1/1995 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_URB01A00	**Urbanna Creek**	MIDDLESEX CO	As described in VDH-DSS SFC 42B, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_URB02A00	**Urbanna Creek**	MIDDLESEX CO	As delineated in VDH shellfish condemnation 042A, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.24 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_WEE01A00	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202, 10/8/1996. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_WEE02A04	Weeks Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 202A, 9/3/2003, not otherwise delineated. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_XDV01A02	**Beach Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 116A, 12/27/2004. Expanded in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.11 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E25E_ZZZ01A00	**Unsegmented estuaries in E25**	ESSEX CO RICHMOND CO	Unsegmented portion of watershed RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.24 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_BPC01A98	**Rappahannock River: Bush Park Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 109, 4/27/1989. Size adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_BRD01A00	**Broad Creek**	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038B, 12/30/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_BRD02A00	**Broad Creek**	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 038A, 12/30/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_BRD03A00	**Broad Creek**	MIDDLESEX CO	The boundaries are defined in VDH shellfish condemnation 033-038C, 12/30/2004. Sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_BRD04A00	**Broad Creek**	MIDDLESEX CO	Described in VDH-DSS condemnation 033-038M1, 12/3/2004 Size reduced in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_CEB01A00	**Eastern Branch Carter Creek**	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 041A, 12/17/2004. Segment was expanded in 2006 cycle and now incorporates CEB02A00 (Bridge Cove), which was previously open. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.25 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_CTR01A00	**Carter Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 041D, 12/17/2004. Size adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_CTR02A00	Carter Creek	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 041B, 12/17/2004. Size adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_CTR03A00	Carter Creek, Eastern Branch Carter Creek	LANCASTER CO	As described in VDH-DSS SFC 020-041M1, 12/17/2006 Segment was shortened in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_CTR04A02	Carter Cove	LANCASTER CO	As described in VDH-DSS SFC 020-041C, 12/17/2004

RPPMH

VA Overall AU Category: **5A**

Use	Impairment (0.06 SQUARE MILES)	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
	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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_LOL01A02	**Locklies Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 102A, 2/6/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_LOL02A06	Locklies Creek	MIDDLESEX CO	Described in VDH-DSS SFC 031-102B, 2/6/2004
			RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MEA01A00	**Meachim Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 179A, 11/17/2004. Expanded in 2006 RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the Submerged Aquatic Vegetation acreage criteria during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MEA01A06	Meachim Creek	MIDDLESEX CO	Described in VDH SFC 030-179A, 12/9/1996, not otherwise segmented.

RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MEA01B00	**Meachim Creek**	MIDDLESEX CO	The segment is delineated in VDH shellfish condemnation 179B, 11/17/2004. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MEA01C06	Meachim Creek	MIDDLESEX CO	Described in VDH SFC 030-179M1, 11/17/2004. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MEA02A00	**Meachim Creek**	MIDDLESEX CO	Downstream of VDH SFC 030-179A, 11/17/2004, not otherwise segmented. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.14 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MLL01A98	**Mill Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 103, 12/10/1991 RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MLL02A06	**Mill Creek**	MIDDLESEX CO	Downstream of VDH shellfish condemnation 103, 12/10/1991 RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_MOS01A00	**Mosquito Creek**	LANCASTER CO	The boundaries are delineated in VDH shellfish condemnation 203, 11/6/2003. Expanded in 2006 cycle RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_RPP02A00	**Rappahannock River**	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051A. Size corrected in 2006 cycle. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.13 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_RPP03A00	**Rappahannock River**	MIDDLESEX CO	The Rappahannock River in the area delineated in VDH shellfish condemnation 051D, 9/10/1997. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_RPP04A00	**Rappahannock River**	MIDDLESEX CO	VDH Shellfish Condemnation 051B, 9/10/1997 Sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_RPP05A00	**Rappahannock River**	MIDDLESEX CO	The area delineated in VDH shellfish condemnation 051E, 9/10/1997 RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.14 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_RPP07A02	**Rappahannock River**	LANCASTER CO	As delineated in VDH-DSS SFC 053A, 9/16/1993 RPPMH.

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The mesohaline portion of the Rappahannock failed the SAV acreage standards during the 2006 cycle.
		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) Sources Outside State Juristiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_STE01A98	**Sturgeon Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 104. Sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_WHS01B00	**Whiting Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 051C, 9/10/1997 AU name fixed and sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_XEV01A02	**Windmill Point Yacht Harbor**	LANCASTER CO	As delineated in VDH-DSS SFC 018-053B, 9/16/1993 AU name corrected in 2006 (prev. RPP07B02) RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River Mesohaline Embayments**

TMDL Group ID: **10071**

VAP-E26E_ZZZ01A00	**Unsegmented estuaries in E26**	LANCASTER CO MIDDLESEX CO	Unsegmented portion of watershed RPPMH

VA Overall AU Category: **5A**

Use	Impairment	1.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10071	**2006**	**2010**	VAP-E22E-01 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the SAV acreage standards.

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)
- Sources Outside State Juristiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Beach Creek**

TMDL Group ID: **01067**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E25E_XDV01A02	**Beach Creek**	LANCASTER CO	The segment boundaries are delineated in VDH shellfish condemnation 116A, 12/27/2004. Expanded in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.11	SQUARE MILES	01067	**1998**	**2010**	VAP-E25E-14 VDH shellfish condemnation 116A, 12/27/2004 Expanded in 2006

Sources: Source Unknown

TMDL Watershed Name: **Rappahannock River, Bush Park Creek**

TMDL Group ID: **01070**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E26E_BPC01A98	**Rappahannock River: Bush Park Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 109, 4/27/1989. Size adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.10	SQUARE MILES	01070	**1998**	**2010**	VAP-E26E-10 The CB standards were implemented during the 2006 cycle. The mesohaline portion of the Rappahannock failed the open water summer dissolved oxygen criteria and the SAV acreage standards during the 2006 cycle.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Garrett's Marina**

TMDL Group ID: **01050**

VAP-E24E_RPP01B98	**Garrett's Marina**	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 181A, 11/6/1995. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.00 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01050	**1998**	**2010**	VAP-E24E-03 VDH shellfish condemnation 181A, 11/6/1995

Sources: Marina/Boating Sanitary On-vessel Discharges
Source Unknown

TMDL Watershed Name: **Rappahannock River, Mark Haven Beach**

TMDL Group ID: **01065**

VAP-E25E_RPP01C98	**Rappahannock River - Mark Haven Beach**	ESSEX CO	The segment boundaries are delineated in VDH shellfish condemnation 026-181B, 11/6/1996. RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.01 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01065	**1998**	**2010**	VAP-E24E-04 VDH-DSS Shellfish Condemnation 026-181B, 11/6/1995

Sources: Source Unknown

TMDL Watershed Name: **Rappahannock River, Sturgeon Creek**

TMDL Group ID: **01093**

VAP-E26E_STE01A98	**Sturgeon Creek**	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 104. Sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01093	**1998**	**2010**	VAP-E26E-12 VDH shellfish condemnation 104, 11/28/1994

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **00317**

VAN-E01R_RPP02A00	Rappahannock River	FAUQUIER CO RAPPAHANNOCK CO	Segment begins at the confluence with the Jordan River, at rivermile 175.58, and continues downstream until the confluence with an unnamed tributary to the Rappahannock River, at rivermile 173.41.

VA Overall AU Category: **5A**

Use	Impairment	2.17 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00317	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 14 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-RPP175.51) at the Route 647 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for fecal coliform bacteria impairment. This stream segment was identified in the Plaintiff's List of the 1999 Consent Decree and is subject to the consent decree TMDL schedule.

Sources: Source Unknown

TMDL Group ID: **00322**

VAN-E20E_RPP01A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the outlet of waterbody VAN-E20E. This segment represents the upper reach of VAN-E21E_RPP05A02. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.19 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00322	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's Chesapeake Bay/ambient station (3-RPP098.81) at Buoy 112 to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.

Sources: Source Unknown

VAN-E20E_RPP02A02	Rappahannock River	SPOTSYLVANIA CO STAFFORD CO	Segment begins at the confluence with Deep Run and continues downstream until the confluence with Massaponax Creek. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.23 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00322	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (8-RPP104.47) one hundred yards below the Massaponax Wastewater Treatment Facility to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform impairment, beginning in 2002.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **00322**

VAN-E20E_RPP03A02 — **Rappahannock River** — FREDERICKSBURG CITY, STAFFORD CO

Segment begins at the fall line at Route One and continues downstream until the confluence with Deep Run.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.21 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00322	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 11 samples - 45.4%) were recorded at DEQ's ambient water quality monitoring station (3-RPP1110.57) at the Route One bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		00322	**2002**	**2010**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 16 samples - 18.8% and 6 of 13 samples - 46.2%, respectively) were recorded at DEQ's ambient water quality monitoring station (3-RPP107.91) one hundred yards below the Fredericksburg Wastewater Treatment Facility and DEQ's ambient water quality monitoring station (8-RPP110.57) at the Route One bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
		Sources: Source Unknown				

VAN-E21E_RPP03A02 — **Rappahannock River** — CAROLINE CO, KING GEORGE CO

Segment begins at the confluence with Mount Creek and continues downstream until the confluence with Mill Creek.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	1.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00322	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 14 samples - 14.3%) were recorded at DEQ's ambient water quality monitoring station (3-RPP080.19) at the Route 301 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
		Sources: Source Unknown				

VAN-E21E_RPP04A02 — **Rappahannock River** — CAROLINE CO, KING GEORGE CO

Segment begins at the confluence with Ware Creek and continues downstream until the confluence with Mount Creek.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	1.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00322	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 13 samples - 23.1%) were recorded at DEQ's ambient water quality and Chesapeake Bay monitoring station (3-RPP091.55) at buoy 89 to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
		Sources: Source Unknown				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **00322**

VAN-E21E_RPP05A02	Rappahannock River	CAROLINE CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the confluence with Ware Creek. The upper reach of this segment (approx. 0.3 sq mi) extends into waterbody VAN-E20E. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.57 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00322	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality and Chesapeake Bay monitoring station (8-RPP098.81) at buoy 112 to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.

Sources: Source Unknown

TMDL Group ID: **00838**

VAN-E08R_RPP02A02	Rappahannock River	CULPEPER CO FAUQUIER CO	Segment begins at the confluence with Ruffans Run and continues downstream until the confluence with Tinpot Run.

VA Overall AU Category: **5A**

Use	Impairment	2.02 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00838	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 13 samples - 38.5%) were recorded at DEQ's ambient water quality monitoring station (3-RPP0147.10) at the Route 15/29 Business bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed, beginning in 2004, for fecal coliform bacteria impairment.

Sources: Source Unknown

TMDL Group ID: **60075**

VAN-E02R_RPP01A02	Rappahannock River	CULPEPER CO FAUQUIER CO	Segment begins at the confluence with Great Run, at rivermile 154.9, and continues downstream until the confluence with the Hazel River, at rivermile 147.52.

VA Overall AU Category: **5A**

Use	Impairment	6.84 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60075	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 10 samples - 60.0%) were recorded at DEQ's ambient water quality monitoring station (3-RPP150.32) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

Use	Impairment	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	60075	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 10 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (3-RPP150.32) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **60075**

TMDL Group ID: **60081**

VAN-E08R_RPP01A02 **Rappahannock River** CULPEPER CO FAUQUIER CO

Segment begins at the confluence with an unnamed tributary to the Rappahannock River, at approximately rivermile 142.5, and continues downstream until the confluence with Marsh Run.

VA Overall AU Category: **5A**

Use	Impairment	2.85 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60081	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (3-RPP142.36) at the Route 620 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60138**

VAN-E20E_RPP01A02 **Rappahannock River** SPOTSYLVANIA CO STAFFORD CO

Segment begins at the confluence with Massaponax Creek and continues downstream until the outlet of waterbody VAN-E20E. This segment represents the upper reach of VAN-E21E_RPP05A02.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.19 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2004**	**2016**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **60138**

VAN-E20E_RPP02A02 **Rappahannock River** SPOTSYLVANIA CO, STAFFORD CO

Segment begins at the confluence with Deep Run and continues downstream until the confluence with Massaponax Creek.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.23 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2004**	**2016**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in three species of fish samples collected in 2001 at monitoring station 3-RPP107.33 (gizzard shad, channel catfish, and carp).

Sources: Source Unknown

VAN-E20E_RPP03A02 **Rappahannock River** FREDERICKSBURG CITY, STAFFORD CO

Segment begins at the fall line at Route One and continues downstream until the confluence with Deep Run.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.21 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2004**	**2016**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in three species of fish samples collected in 2001 at monitoring station 3-RPP107.33 (gizzard shad, channel catfish, and carp). As a result, the waters were assessed not supporting of the CWA's fish consumption use goal.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **60138**

VAN-E20R_CLB01A00 **Claiborne Run** STAFFORD CO

Segment begins at the confluence with an unnamed tributary to Claiborne Run, approximately 0.5 rivermile upstream of the Route 1 crossing, and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment	4.89 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected stretch extends from the Route 1 bridge crossing until the confluence with the Rappahannock River.

Sources: Source Unknown

VAN-E20R_HAL01A00 **Hazel Run** FREDERICKSBURG CITY, SPOTSYLVANIA CO

Segment begins at the Route 95 crossing and continues downstream until the confluence with the Rappahannock River.

VA Overall AU Category: **5A**

Use	Impairment	4.46 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected stretch extends from the Route 95 bridge crossing until the confluence with the Rappahannock River.

Sources: Source Unknown

VAN-E21E_RPP01A02 **Rappahannock River** CAROLINE CO, KING GEORGE CO

Segment begins at the confluence with Mill Creek, at rivermile 78.94, and continues downstream until immediately upstream of Devils Elbow, at rivermile 70.52.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	4.50 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **60138**

VAN-E21E_RPP03A02 **Rappahannock River** CAROLINE CO, KING GEORGE CO

Segment begins at the confluence with Mount Creek and continues downstream until the confluence with Mill Creek.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	1.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2004**	**2016**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).

Sources: Source Unknown

VAN-E21E_RPP04A02 **Rappahannock River** CAROLINE CO, KING GEORGE CO

Segment begins at the confluence with Ware Creek and continues downstream until the confluence with Mount Creek.
Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	1.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2004**	**2016**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rappahannock River, Tidal Fresh**

TMDL Group ID: **60138**

VAN-E21E_RPP05A02	Rappahannock River	CAROLINE CO STAFFORD CO	Segment begins at the confluence with Massaponax Creek and continues downstream until the confluence with Ware Creek. The upper reach of this segment (approx. 0.3 sq mi) extends into waterbody VAN-E20E. Portion of CBP segment RPPTF.

VA Overall AU Category: **5A**

Use	Impairment	0.57 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**		60138	**2004**	**2016**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 12/13/04, limits American eel, blue catfish, carp, channel catfish, croaker, gizzard shad, and anadromous (coastal) striped bass consumption to no more than two meals per month. The affected area extends from the I-95 bridge above Fredericksburg downstream to the mouth of the river near Stingray Point, including its tributaries Hazel Run up to the I-95 bridge crossing and Claiborne Run up to the Route One bridge crossing. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded in two species of fish samples collected in 2001 at monitoring station 3-RPP080.19 (blue catfish and gizzard shad).

Sources: Source Unknown

TMDL Watershed Name: **Richardson Creek**

TMDL Group ID: **01049**

VAP-E24E_RIC01A04	Richardson Creek	RICHMOND CO	Tidal limit to mouth (within SFC 025-071A, 12/22/2004) RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.15 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01049	**1998**	**2010**	VAP-E24E-06 Portion of VDH Shellfish Condemnation 071A, 12/22/2004 Previous condemnations included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated. However, in 2006 the segments were both recombined under 025-071A, 12/22/2004 and extended into the Rappahannock (see VAP-E24E-06)

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Robinson Creek**

TMDL Group ID: **00197**

VAP-E25E_ROS01A00	Robinson Creek	MIDDLESEX CO	Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.18 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		00197	**1998**	**2014**	Category 4A VAP-E25E-02 In 2002, the segment was also assessed as not supporting the Recreation Use due to fecal coliform violations at the end of Route 680 (3-ROS001.35). The violation rate in the 2004 cycle was 4/20. There has been no additional monitoring since 2001. The fecal coliform criteria for Shellfish is more stringent, therefore the impairment is considered to be addressed by the existing shellfish TMDL (cat. 4A)

Sources: Non-Point Source

TMDL Group ID: **10082**

VAP-E25E_ROS02A04	Robinson Creek	MIDDLESEX CO	Described in VDH Shellfish Condemnation 177, 2/25/2004, not otherwise segmented Extended in 2006 cycle RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.29 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		10082	**2006**	**2018**	VAP-E25E-22 The upstream portion of Robinson Creek was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 177, 5/28/1997. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. During the 2006 cycle, however, the condemnation was extended downstream. The TMDL for this segment is due in 2018.

Sources: Non-Point Source

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Robinson Creek**

TMDL Group ID: **76650**

VAP-E25E_ROS01A00	Robinson Creek	MIDDLESEX CO	Boundaries delineated in VDH shellfish condemnation 177, 5/28/1997. RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.18 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		76650	**1998**	**2005**	Category 4A VAP-E25E-02 The upstream portion of Robinson Creek was assessed in 1998 as not supporting the Shellfish Consumption Use based on VDH-DSS Condemnation 177, 5/28/1997. The TMDL for this original portion was completed and approved by EPA on 11/15/2005. The segment should be classified as Cat. 4A, however the EPA TMDL ID was not available at the time of assessment.

Sources: Non-Point Source

TMDL Watershed Name: **Robinson River**

TMDL Group ID: **00214**

VAN-E14R_ROB01C00	Robinson River	MADISON CO	Segment begins at the confluence with the Rose River, just downstream of Route 670, and continues downstream until the crossing of Route 231, rivermile 21.58.

VA Overall AU Category: **5D**

Use	Impairment	2.92 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00214	**2006**	**2005**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 15 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station (3-ROB024.06) at the Route 649 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. A bacteria TMDL for the Robinson River watershed was submitted to the U.S. EPA and approved December 12, 2005. Nonpoint sources of fecal coliform are primarily agricultural (i.e., land-applied animal waste, manure deposited directly on pastures by livestock, and a significant fecal coliform load due to cattle directly depositing manure in streams) with a significant load applied to residential and forest land use categories. Non-agricultural anthropogenic nonpoint sources of fecal coliform loadings include straight pipes, failing septic systems, and pet waste. Wildlife contributes to fecal coliform loadings on all land uses, according to the acceptable habitat range for each species. Segment listed as Category 4A - Federal ID NA.

Sources: Grazing in Riparian or Shoreline Zones
Impacts from Land Application of Wastes
Livestock (Grazing or Feeding Operations)
Runoff from Forest/Grassland/Parkland
Sewage Discharges in Unsewered Areas
Wastes from Pets

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Robinson River**

TMDL Group ID: **00214**

Sources: Waterfowl
Wildlife Other than Waterfowl

TMDL Group ID: **00846**

VAN-E14R_ROB01C00 **Robinson River** MADISON CO

Segment begins at the confluence with the Rose River, just downstream of Route 670, and continues downstream until the crossing of Route 231, rivermile 21.58.

VA Overall AU Category: **5D**

Use	Impairment	2.92 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Temperature, water**		00846	**2004**	**2016**	Sufficient exceedances of the instantaneous temperature criterion (6 of 29 samples - 20.7%) were recorded at DEQ's ambient water quality monitoring station (3-ROB024.06) at the Route 649 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60091**

VAN-E14R_ROB01A06 **Robinson River** MADISON CO

Segment begins at the confluence with Leathers Run and continues downstream until the confluence with White Oak Run.

VA Overall AU Category: **5A**

Use	Impairment	3.45 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60091	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 21 samples - 14.3%) were recorded at DEQ's ambient water quality monitoring station (3-ROB017.24) at the Route 638 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Rose River**

TMDL Group ID: **60113**

VAN-E14R_ROE01A02 **Rose River** MADISON CO

Segment starts at rivermile 2.6, approximately 0.36 rivermile downstream from the confluence with Strother Run, and continues downstream until the confluence with the Robinson River.

VA Overall AU Category: **5A**

Use	Impairment	2.60 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Temperature, water**		60113	**2006**	**2018**	Sufficient exceedances of the instantaneous temperature criterion (3 of 17 samples - 17.6%) were recorded at DEQ's ambient water quality monitoring station (3-ROE000.75) to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Rush River**

TMDL Group ID: **00833**

VAN-E05R_RUS02A02	Rush River	RAPPAHANNOCK CO	Segment begins at the confluence with an unnamed tributary to the Rush River, at rivermile 8.78, and continues downstream until the confluence with Big Branch, approximately 0.98 rivermile upstream of Route 621.

VA Overall AU Category: **5A**

Use	Impairment	4.55 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		00833	**2006**	**2014**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 9 samples - 44.4%) were recorded at DEQ's ambient water quality monitoring station (3-RUS005.66) at the Route 683 bridge, upstream of Route 211/ 522, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment.
		Sources: Source Unknown				
Recreation	**Fecal Coliform**		00833	**2002**	**2014**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 18 samples - 22.2%) were recorded at DEQ's ambient water quality monitoring station (3-RUS005.66) at the Route 683 bridge, upstream of Route 211/ 522, to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was first listed for fecal coliform bacteria impairment in 2002.
		Sources: Source Unknown				

TMDL Watershed Name: **Senior Creek**

TMDL Group ID: **01092**

VAP-E26E_SEN01A00	Senior Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-132B, 3/27/2002. Size adjusted in 2006 cycle, although area did not change. CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01092	**1998**	**2010**	VAP-E26E-08 VDH shellfish condemnation 021-132B, 3/27/2002
		Sources: Source Unknown				

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **South Run**

TMDL Group ID: **60077**

VAN-E02R_SUT01A04	South Run	FAUQUIER CO	Segment begins at the confluence with Tanner Branch and continues downstream until the confluence with Carter Run.

VA Overall AU Category: **5A**

Use	Impairment	3.93 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60077	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (6 of 22 samples - 27.3%) were recorded at DEQ's ambient water quality monitoring station (3-SUT002.62) at the Route 737 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Taylor Creek**

TMDL Group ID: **01094**

VAP-E26E_TAY01A00	Taylor Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 021-205, 3/27/2002. Size reduced in 2004 cycle. CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.09 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01094	**2004**	**2016**	VAP-E26E-03 VDH shellfish condemnation 205 was rescinded in 2002 cycle and then reopened on 3/27/2002

Sources: Source Unknown

TMDL Watershed Name: **The Big Swamp**

TMDL Group ID: **10106**

VAP-E23R_TBS01A06	The Big Swamp	RICHMOND CO WESTMORELAND CO	Headwaters to mouth at Cat Point Creek

VA Overall AU Category: **5C**

Use	Impairment	6.80 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		10106	**2006**	**2018**	VAP-E23R-15 During the 2006 cycle, The Big Swamp was assessed as not supporting the Aquatic Life Use based on a dissolved oxygen violation rate of 2/15 at 3-TBS003.39. This segment is nested within VAP-E23R-01.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Thornton River**

TMDL Group ID: **60078**

VAN-E05R_THO01A02 **Thornton River** RAPPAHANNOCK CO

Segment begins at the confluence with White Walnut Run, approximately 0.8 rivermile downstream of Route 621, and continues downstream to the confluence with the Rush River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	3.38 MILES	60078	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 8 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (3-THO014.37) at the Route 626 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. There was insufficient data to determine a fecal coliform bacteria impairment (1 of 8 samples - 12.5%).

Sources: Source Unknown

VAN-E06R_THO02A02 **Thornton River** CULPEPER CO RAPPAHANNOCK CO

Segment begins at the confluence with Mill Run, at rivermile 8.65, and continues downstream until the confluence with an unnamed tributary to the Thornton River, at rivermile 3.25.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	5.40 MILES	60078	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 10 samples - 20.0%) were recorded at DEQ's ambient water quality monitoring station (3-THO006.50) at the Route 729 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Totuskey Creek**

TMDL Group ID: **01030**

VAP-E24E_TOT01A00 **Totuskey Creek** RICHMOND CO

The segment boundary is delineated in VDH condemnation 071B, 12/22/2004.

Sq. mileage adjusted in 2006, although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	0.36 SQUARE MILES	01030	**2004**	**2016**	VAP-E24E-02 In addition, in the 2004 cycle the segment was assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at 3-TOT005.11. The segment remained impaired in 2006. The chloride TMDL is due in 2016.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Totuskey Creek**

TMDL Group ID: **01030**

Wildlife	**Chloride**	01030	**2004**	**2016**	VAP-E24E-02

In addition, in the 2004 cycle the segment was assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at 3-TOT005.11. The segment remained impaired in 2006. The chloride TMDL is due in 2016.

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

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VAP-E24E_TOT02A00 **Totuskey Creek** RICHMOND CO

Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004).

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.75 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**		01030	**2004**	**2016**	VAP-E24E-02

In the 2004 cycle the segment was assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at 3-TOT005.11. The segment remained impaired in 2006. The chloride TMDL is due in 2016.

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

Wildlife	**Chloride**	01030	**2004**	**2016**	VAP-E24E-02

In the 2004 cycle the segment was assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at 3-TOT005.11. The segment remained impaired in 2006. The chloride TMDL is due in 2016.

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

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TMDL Group ID: **01051**

VAP-E24E_TOT01A00 **Totuskey Creek** RICHMOND CO

The segment boundary is delineated in VDH condemnation 071B, 12/22/2004.

Sq. mileage adjusted in 2006, although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**		01051	**2006**	**2014**	VAP-E24E-02

Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.

Sources: Municipal Point Source Discharges
Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Totuskey Creek**

TMDL Group ID: **01051**

Recreation	**Fecal Coliform**	01051	**2002**	**2014**	VAP-E24E-02	Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.

Sources: Municipal Point Source Discharges
Source Unknown

VAP-E24E_TOT02A00 **Totuskey Creek** RICHMOND CO

Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004).

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.75 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**		01051	**2006**	**2010**	VAP-E24E-02 Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.
Recreation	**Fecal Coliform**		01051	**1998**	**2014**	VAP-E24E-02 Totuskey Creek was previously assessed as not supporting the Recreation Use because of fecal coliform violations at the Route 3 bridge (3-TOT005.11). During the 2006 cycle, the segment remained impaired for fecal coliform with a violation rate of 3/21. In addition, enterococci was added as an impairment with a violation rate of 3/9. The bacteria TMDL is due in 2014.

Sources: Municipal Point Source Discharges
Source Unknown

Sources: Municipal Point Source Discharges
Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Totuskey Creek**

TMDL Group ID: **10074**

VAP-E24E_TOT01A00 **Totuskey Creek** RICHMOND CO

The segment boundary is delineated in VDH condemnation 071B, 12/22/2004.

Sq. mileage adjusted in 2006, although area did not change

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.36 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Sediment Bioassays for Estuarine and Marine Water**		10074	**2006**	**2018**	VAP-E24E-02

During the 2006 cycle, estuarine probabilistic monitoring was conducted through the Coastal 2000 program at 3-TOT007.84 and 3-TOT004.92. The data was assessed by CO through the Weight of Evidence approach. Although both stations showed benthic alteration, the alteration at station 3-TOT007.84 was assessed as Category 5A for toxics. The TMDL is due in 2018.

Sources: Source Unknown

VAP-E24E_TOT02A00 **Totuskey Creek** RICHMOND CO

Downstream of VDH shellfish condemnation 025-071B, 12/22/2004 (within 025-071A, 12/22/2004).

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.75 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Sediment Bioassays for Estuarine and Marine Water**		10074	**2006**	**2018**	VAP-E24E-02

During the 2006 cycle, estuarine probabilistic monitoring was conducted through the Coastal 2000 program at 3-TOT007.84 and 3-TOT004.92. The data was assessed by CO through the Weight of Evidence approach. Although both stations showed benthic alteration, the alteration at station 3-TOT007.84 was assessed as Category 5A for toxics. The TMDL is due in 2018.

Sources: Source Unknown

TMDL Group ID: **10107**

VAP-E24R_TOT01A06 **Totuskey Creek** RICHMOND CO

The nontidal portion of Totuskey Creek

VA Overall AU Category: **5A**

Use	Impairment	8.46 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		10107	**2006**	**2018**	VAP-E24R-02

During the 2006 cycle, the nontidal portion of Totuskey Creek was assessed as not supporting the Recreation Use due to an E. coli violation rate of 2/9 at 3-TOT009.95. Further monitoring is recommended.

Sources: Source Unknown

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Town Creek**

TMDL Group ID: **01095**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E26E_TON01A00	**Town Creek**	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187A, 3/27/2002. Size adjusted in 2006, although area did not change CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01095	**2002**	**2014**	VAP-E26E-07 VDH shellfish condemnation 187A, 3/27/2002

Sources: Source Unknown

TMDL Watershed Name: **Urbanna Creek**

TMDL Group ID: **00198**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAP-E25E_URB02A00	**Urbanna Creek**	MIDDLESEX CO	As delineated in VDH shellfish condemnation 042A, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.24 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		00198	**1998**	**2005**	Category 4A VAP-E25E-04 The segment is assessed as impaired of the Shellfish Consumption Use based on VDH-DSS Shellfish Condemnation 042A, 9/17/1993. The TMDL was completed and approved by EPA on 11/15/2005 and the segment should be assessed as Cat. 4A.

Sources: Municipal Point Source Discharges
Non-Point Source

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Urbanna Creek**

TMDL Group ID: **01785**

VAP-E25E_URB01A00	Urbanna Creek	MIDDLESEX CO	As described in VDH-DSS SFC 42B, 9/17/1993. Sq. mileage adjusted in 2006 RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.22 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**		01785	**2004**	**2016**	VAP-E25E-19 The segment was assessed in 2004 as not supporting of the Recreation Use based on a fecal coliform violation rate of 3/20 at 3-URB001.50, located at the end of Route 418. There has been no additional monitoring at this station since 2001; therefore, although the violation rate was 0/8 during the 2006 assessment window, the segment must remain listed until further data can be collected.

Sources: Source Unknown

TMDL Watershed Name: **Ware Creek**

TMDL Group ID: **00852**

VAN-E21R_WAE01A04	Ware Creek	CAROLINE CO	Segment begins at the headwaters of Ware Creek and continues downstream until the confluence with an unnamed tributary to Ware Creek, just downstream from Burma Road.

VA Overall AU Category: **5C**

Use	Impairment	2.94 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		00852	**2004**	**2016**	Sufficient exceedances of the instantaneous pH criterion (2 of 2 samples - 100%) were recorded at DEQ's freshwater probabilistic monitoring station (3-WAE005.95) at the Fort A.P. Hill property to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

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

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Weeks (Mudd) Creek**

TMDL Group ID: **01066**

VAP-E25E_WEE01A00 **Weeks Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 202, 10/8/1996.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01066	**1998**	**2010**	VAP-E25E-09

The segment was assessed as not supporting of the Shellfish Use during the 1998 cycle due to VDH shellfish condemnation 202, 10/8/1996. This segment is now a portion of SFC 202A, 9/3/2003. The TMDL was completed for the original 1998 segment during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be categorized as Cat. 4A for Shellfish, however the EPA TMDL ID was not available at the time of assessment.

Sources: Non-Point Source

TMDL Watershed Name: **Weeks Creek**

TMDL Group ID: **10079**

VAP-E25E_WEE02A04 **Weeks Creek** MIDDLESEX CO

The segment boundaries are delineated in VDH shellfish condemnation 202A, 9/3/2003, not otherwise delineated.

RPPMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		10079	**1998**	**2018**	VAP-E25E-08

This segment is a portion of SFC 202A, 9/3/2003 during the 2006 cycle. Although a TMDL was completed for Weeks Creek and approved by EPA on 11/15/2005, it only covers the original upstream 1998 impairment.

Sources: Non-Point Source

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Western Branch Corrotoman River, Unnamed Tributary**

TMDL Group ID: **10121**

VAP-E26R_XEY01A06	UT to Western Branch Corrotoman River	LANCASTER CO	Headwaters to mouth at Western Branch Corrotoman River

VA Overall AU Category: **5C**

Use	Impairment	3.30 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**		10121	**2006**	**2018**	VAP-E26R-02 During the 2006 cycle, unnamed tributary XEY was considered impaired of the Aquatic Life Use based on a pH violation rate of 3/10 at the Route 604 bridge (3-XEY001.00).

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

TMDL Watershed Name: **White Oak Run**

TMDL Group ID: **60092**

VAN-E14R_WHO01A06	White Oak Run	MADISON CO	Segment begins at the Town of Madison's raw water intake, approximately 0.4 rivermile upstream from the Route 657 crossing, and continues downstream until the confluence with the Robinson River.

VA Overall AU Category: **5A**

Use	Impairment	3.42 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**		60092	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 5 samples - 100%) were recorded at DEQ's ambient water quality monitoring station (3-WHO003.42) at the Route 657 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources:
- Grazing in Riparian or Shoreline Zones
- Impacts from Land Application of Wastes
- Livestock (Grazing or Feeding Operations)
- Runoff from Forest/Grassland/Parkland
- Sewage Discharges in Unsewered Areas
- Wastes from Pets
- Waterfowl
- Wildlife Other than Waterfowl

List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

Rappahannock River Basin

TMDL Watershed Name: **Whitehouse Creek**

TMDL Group ID: **01096**

VAP-E26E_WHR01A00	Whitehouse Creek	LANCASTER CO	The boundaries are described in VDH shellfish condemnation 187D, 3/27/2002 Size adjusted in 2006, although area did not change CRRMH

VA Overall AU Category: **5A**

Use	Impairment	0.05 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		01096	**1998**	**2010**	VAP-E26E-33 VDH shellfish condemnation 187D, 3/27/2002

Sources: Source Unknown

TMDL Watershed Name: **Whiting Creek**

TMDL Group ID: **00201**

VAP-E26E_WHS01B00	Whiting Creek	MIDDLESEX CO	The segment boundaries are delineated in VDH shellfish condemnation 051C, 9/10/1997 AU name fixed and sq. mileage adjusted in 2006, although area did not change RPPMH

VA Overall AU Category: **5D**

Use	Impairment	0.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**		00201	**1998**	**2005**	Category 4A VAP-E26E-24 VDH shellfish condemnation 051C, 9/10/1997 The Shellfish TMDL was completed during the 2006 cycle and approved by EPA on 11/15/2005. The segment should be considered Category 4A for Shellfish, although the EPA TMDL ID was not available at the time of assessment.

Sources: Non-Point Source

Note: * Assessment Units may extend across jurisdictional boundaries.