

APPENDIX 3 WATERS IDENTIFIED FOR DELISTING SINCE THE 2016 REPORT

Assessment is a process in which impaired and non-impaired waters are systematically identified. This is an iterative process, requiring that waters be investigated on an on-going basis as water quality standards are reviewed/refined, sampling and assessment methods are improved, and management activities are adaptively implemented. Additionally, assessment of water quality must factor in the variability inherent to the natural environment. For instance, poor water quality is often associated with unusually wet weather. A limited dataset for a given water may show violations of water quality standards that are not typical for that water due to unusual weather events, and subsequent monitoring may confirm this. Thus, given the dynamic aspects of both the environment and the assessment process, the revisiting of impaired waters sometimes results in the “delisting” of impairments for 303(d) listed waters.

There are two types of delistings: partial and full. Waters are listed based on non-attainment of assessed designated uses, with the specific impairments (e.g., dissolved oxygen) broken out individually. A partial delist generally occurs when a water no longer has a specific impairment cause associated with it, but the water is still listed for other impairments. For instance, if a water was originally listed for violations of dissolved oxygen and temperature standards, and recent monitoring indicates that this water is now meeting only dissolved oxygen standards, then the water only qualifies for a partial delisting since the aquatic life use is still not attained. Most delistings are partial. A full delist occurs when a water is no longer impaired. If, in the above example, recent monitoring shows the water meets both dissolved oxygen and temperature standards, then it would qualify for a full delist. In the Assessment Database, partial and full delists are distinguished from each other.

Waters can be delisted for multiple reasons. Changes to assessment protocols can result in delistings, as can changes in water quality standards. Shellfish condemnation zones are developed through modeling of bacteria data and other variables, and the boundaries of these zones often change. The shellfishing use for a water that falls in a condemnation zone in the previous cycle can be delisted if it is no longer included in the zone this cycle. Similarly, data at a new monitoring station may indicate that an impairment, such as dissolved oxygen, has a smaller extent than what was assumed in previous assessments, resulting in delisting of dissolved oxygen for one or more segments. More commonly, analysis of recent station data may show little to no exceedences of water quality standards for parameters previously “failing” at that station. The underlying reasons for improved water quality are frequently unknown. In cases where specific management activities are known to have taken place, such as alterations in dam releases, details are provided in the delist rationale. Bacteria is the most common delisted cause.

The following is the list of water-quality limited waters that have full or partial delists for the 2018 assessment.

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
VAN-A05R_JEE02A08	Jeffries Branch	1.77 Miles	Aquatic Life Recreation

Delisting Summary:

DELIST 2018 - Benthic Macroinvertebrates - A05R-02-BEN, VAN-A05R-03 (CFL 2012)

During the 2016 cycle, this segment extended 2.98 additional miles downstream and included DEQ station 1aJEE002.22, with the aquatic life use assessed as impaired due to biological monitoring events in 2010, 2011, 2013, and 2014 at station 1aJEE002.22 at Route 743. For the 2018 cycle, those 2.98 miles were removed from this segment and included with downstream segment VAN-A05R_JEE01A16, which is assessed as impaired for the aquatic life use due to biological monitoring events in 2013, 2014, and 2015 at station 1aJEE000.23 at Route 719 and biological monitoring events in 2011, 2013, 2014, and 2015 at station 1aJEE002.22 at Route 743. During the 2018 cycle, this shortened segment (1.78 miles) is considered fully supporting for the aquatic life use due to biological monitoring events in 2015 at station 1aJEE004.34 (upstream from confluence with unnamed tributary XCD). It has been determined that this segment should be delisted for benthic macroinvertebrates based on recent VSCI scores indicating a healthy benthic macroinvertebrate community.

DELIST 2018 - E. coli - A05R-05-BAC, VAN-A05R-03 (CFL 2016)

During the 2016 cycle, this segment extended 2.98 additional miles downstream and included DEQ station 1aJEE002.22, with the recreation use assessed as impaired due to excursions from the maximum E. coli bacteria criterion recorded at DEQ station 1aJEE002.22 at Route 743. For the 2018 cycle, those 2.98 miles were removed from this segment and included with downstream segment VAN-A05R_JEE01A16, which is assessed as impaired for the recreation use based on E. coli bacteria data from DEQ stations 1AJEE000.23 at Route 719 and 1AJEE002.22 at Route 743. During the 2018 cycle, this shortened segment (1.78 miles) is considered fully supporting for the recreation use due to an acceptable E. coli bacteria exceedance rate (1 of 11 samples - 9.1%) based on samples collected during 2015 at DEQ ambient station 1AJEE004.84 at Route 619. It has been determined that this shortened upstream segment should be delisted for E. coli based on an acceptable exceedance rate at DEQ station 1AJEE004.84.

VAN-A20R_OCC02A00	Occoquan River	1.63 Miles	Recreation
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Delisting Summary:

DELIST 2018 - Fecal Coliform - A20R-01-BAC, VAN-A20R-01 (CFL 2004)

Since the 2006 cycle, this segment was assessed as not supporting the recreation use because of exceedances of the instantaneous fecal coliform bacteria criterion (4 of 8 samples - 50.0%) recorded at DEQ ambient water quality monitoring station 1aOCC024.74 at Route 234. E. coli bacteria monitoring at this location for the 2018 cycle found that 1 of 12 samples (8.3%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for fecal coliform bacteria based on an acceptable E. coli bacteria exceedance rate.

VAN-A26E_CHO01A04	Chopawamsic Creek	0.5946 Square Miles	Aquatic Life Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A26E_CHO01B06	Chopawamsic Creek	0.1033 Square Miles	Aquatic Life Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size		Uses Partially / Fully Restored
Potomac and Shenandoah River Basins				
VAN-A26E_POT01A08	Potomac River	0.265 Square Miles	Aquatic Life	Open-Water Aquatic Life
Delisting Summary:				
PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)				
The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.				
VAN-A26E_QUA01B04	Quantico Creek	0.4188 Square Miles	Aquatic Life	
Delisting Summary:				
PARTIAL DELIST 2018 - Estuarine Bioassessments and Sediment Bioassays for Estuarine and Marine Water - A26E-03-EBEN and A26E-03-EBTOX, CB-POTTF (CFL 2006)				
Since the 2006 cycle, this segment was assessed as not supporting the aquatic life use based on the Coastal 2000 weight of evidence analysis in 2001 at station 1aQUA001.09, utilizing bulk chemical data, toxicity test data, and an evaluation of benthic community conditions. Conclusions noted that organic enrichment, as well as chemical contamination, may be responsible for the impairment. The survey revealed low diversity of benthic faunal taxa. The acute bioassay revealed slight, yet significant, toxicity. The 2001 assessment was based on incomplete chemical results (no organics results were included and none of the currently used benthic macroinvertebrate indices were calculated). Subsequent weight of evidence analysis took place in 2015, resulting in an assessment of fully supporting for the aquatic life use. A complete benthic macroinvertebrate analysis indicated very little, if any, degradation and metals and organics analysis noted no significant toxicity. It has been determined that this segment should be delisted for the Estuarine Bioassessments and Sediment Bioassays for Estuarine and Marine Water parameters based on recent weight of evidence analysis.				
VAN-A27R_AUA01A00	Aquia Creek	6.36 Miles	Recreation	
Delisting Summary:				
DELIST 2018 - E. coli - A27R-01-BAC, VAN-A27R-01 (CFL 2004)				
During the 2016 cycle, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion (4 of 32 samples - 12.5%) recorded at DEQ ambient water quality monitoring station 1aAUA014.51 at Route 641. Bacteria monitoring at this location for the 2018 cycle found that 3 of 32 samples (9.4%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based on an acceptable exceedance rate.				
VAN-A28E_AUA01A14	Aquia Creek	0.7413 Square Miles	Aquatic Life	Open-Water Aquatic Life
Delisting Summary:				
PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)				
The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.				
VAN-A28E_AUA01B06	Aquia Creek	1.2056 Square Miles	Aquatic Life	Open-Water Aquatic Life
Delisting Summary:				
PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)				
The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.				

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAN-A28E_AUA01C00	Aquia Creek	0.3638 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A28E_AUA01D06	Aquia Creek	0.5781 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A28E_AUA02A04	Aquia Creek	0.2346 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A28E_AUA20A02	Aquia Creek	0.6033 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A29E_ACC01A00	Accokeek Creek	0.4406 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAN-A29E_CHN01A10	Chotank Creek	0.123 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A29E_CHN02A10	Chotank Creek	0.0536 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A29E_POM01B06	Potomac Creek	0.5872 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A29E_POM02A02	Potomac Creek	0.6 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

VAN-A29E_POM02B16	Potomac Creek	0.1843 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006)

The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses</i>	<i>Partially / Fully Restored</i>
<i>Potomac and Shenandoah River Basins</i>				
VAN-A29E_POM03A08	Potomac Creek	0.3212 Square Miles	Aquatic Life	Open-Water Aquatic Life
<i>Delisting Summary:</i> PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006) The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.				
VAN-A29E_POM20A04	Potomac Creek	0.3288 Square Miles	Aquatic Life	Open-Water Aquatic Life
<i>Delisting Summary:</i> PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006) The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.				
VAN-A29E_POT01A06	Fairview Beach/Potomac River	0.0048 Square Miles	Aquatic Life	Open-Water Aquatic Life
<i>Delisting Summary:</i> PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006) The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.				
VAN-A29E_POT20A06	Potomac River	0.0072 Square Miles	Aquatic Life	Open-Water Aquatic Life
<i>Delisting Summary:</i> PARTIAL DELIST 2018: DO - POTOH-DO-BAY (CFL 2006) The open water assessment of dissolved oxygen values for POTOH is fully supporting. The segment is considered to be fully supporting the aquatic life use. The dissolved oxygen impairment was first listed in 2006 and delisted in 2008. The dissolved oxygen impairment was listed again in 2016.				
VAN-A30E_GAM01A02	Gambo Creek	0.1626 Square Miles	Aquatic Life	
<i>Delisting Summary:</i> PARTIAL DELIST 2018 - pH - A30R-02-PH, CB-POTMH (CFL 2016) During the 2016 cycle, this segment was assessed as not supporting the aquatic life use because of sufficient excursions less than the lower limit of the pH criterion range (3 of 9 samples - 33.3%) recorded at DEQ ambient water quality monitoring station 1aGAM003.50 at Route 301. However, it has been determined that this estuarine segment was incorrectly delineated to extend upstream of Route 301. This segment should be delineated starting at the downstream side of Route 301 and station 1aGAM003.50 should be assigned to riverine segment VAN-A30R_GAM01A04. In 2018, DEQ station 1aGAM003.50 at Route 301 and its pH impairment were reassigned to riverine segment VAN-A30R_GAM01A04. No pH data are available for this segment and the pH parameter is not assessed for the 2018IR.				

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A31E_ROS01A08 Rosier Creek 0.1493 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018 - Enterococci - A31E-01-BAC (CFL 2012)

During the 2010 cycle, the portion of Rosier Creek around station 1AROS001.05, which is located off of the Route 205 boat ramp, was assessed as impaired of the Recreation Use due to an enterococci violation rate of 3/12. No additional data has been collected. The impairment cannot be nested because the Purkins Corner WWTP (VA0070106) did not receive a WLA in the TMDL. Additional monitoring in the 2018 cycle was acceptable (1/12); therefore, the segment will be delisted.

VAP-A31E_ROS02B18 Rosier Creek 0.0081 Square Miles Recreation Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Enterococci - A31E-01-BAC (CFL 2012)

During the 2010 cycle, the portion of Rosier Creek around station 1AROS001.05, which is located off of the Route 205 boat ramp, was assessed as impaired of the Recreation Use due to an enterococci violation rate of 3/12. No additional data has been collected. The impairment cannot be nested because the Purkins Corner WWTP (VA0070106) did not receive a WLA in the TMDL. Additional monitoring in the 2018 cycle was acceptable (1/12); therefore, the segment will be delisted.

PARTIAL DELIST 2018 - Fecal Coliform 0.0082 mi2 - A31E-01-SF2 / 00906 / VAP-A31E-01 (CFL 2006)

VDH-DSS Shellfish Condemnation 001-088M1, 8/20/2015

The Shellfish TMDL for the portion of the Rosier Creek that was impaired in the 1998 cycle I (088A, 7/1/1998) was developed during the 2008 cycle. The TMDL was approved by the EPA on 6/8/2006 and by the SWCB on 4/28/2009.

The lower portion of the current cycle's condemnation was not included in the TMDL; however, the area is considered nested in the Rosier Creek TMDL.

The condemnation expanded in the 2016 cycle. It subsequently shrank again in the 2018 cycle and section M1 was split off and partially delisted.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A31R_CAS01A00 Canal Swamp Watershed 12.57 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - pH - A31R-05-PH (CFL 2012)

The Canal Swamp watershed, which drains to tidal Popes Creek, was impaired of the Aquatic Life Use during the 2012 cycle due to a pH exceedance rate of 3/12.

A Natural Conditions Assessment was completed in September 2013. The report attributes the pH exceedances to natural conditions in the watershed and recommends that the nontidal watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairments were considered Category 4C.

The Canal Swamp watershed was reclassified as Class VII swampwaters in the 2018 cycle. Although no additional data has been collected, a review of the 2012 cycle data indicates that the segment meets the applicable Class VII pH criteria and will be delisted.

DELIST 2018 - Dissolved Oxygen - A31R-05-DO (CFL 2012)

The Canal Swamp watershed, which drains to tidal Popes Creek, was impaired of the Aquatic Life Use during the 2012 cycle due to a dissolved oxygen violation rate of 5/12.

A Natural Conditions Assessment was completed in September 2013. The report attributes the DO exceedances to natural conditions in the watershed and recommends that the nontidal watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairments were considered Category 4C.

The Canal Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A31R_MAO01A98 Mattox Creek 68.45 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - pH - A32R-02-PH / 00646 / VAP-A31R-02 (CFL 2002)

Mattox Creek was assessed during the 1998 cycle as threatened of the Aquatic Life use support goal based on pH exceedances at the Route 627 bridge (1AMAO007.46). During the year 2002 cycle, the segment was downgraded based on the results of a special study and the segment length was revised to end at the tidal limit; the pH TMDL was due in 2014. During the 2006 cycle, additional monitoring in the watershed confirmed the pH impairment. The pH exceedance rates are below.

1AMAO007.46 - 22/35
1AMAO010.27 - 19/22
1AKIG000.62 - 16/22
1ACOW000.38 - 17/22
1AXFF001.61 - 8/22

The segment was expanded to include all nontidal tributaries of Mattox Creek to recognize that tributary XFF enters Mattox Creek below its tidal limit.

The "Natural Conditions Assessment for Low pH and Low Dissolved Oxygen, Mattox Creek and Tributaries in Westmoreland and King George Counties, Virginia" was developed during the 2010 cycle. The report attributes the impairments to natural conditions and recommends that the watershed be reclassified as Class VII swampwaters. Until the WQS could be revised, the watershed was considered Category 4C.

Additional monitoring was conducted during the 2014 cycle:

1/2 at 1ACOW000.38
3/12 at 1AMAO007.46

The Mattox Creek watershed was reclassified as Class VII waters in the 2018 cycle. The pH criteria are now met and the impairment will be delisted.

DELIST 2018 - Dissolved Oxygen - A31R-02-DO / 10021 / VAP-A31R-04 (CFL 2006)

The segment was assessed during the 2006 cycle as impaired of the Aquatic Life use support goal based on dissolved oxygen exceedances at 1AMAO007.46 and 1AMAO010.27. The DO TMDL was due in 2018.

The segment was later expanded to include all nontidal tributaries of Mattox Creek in the 2010 cycle to recognize that tributary XFF enters Mattox Creek below its tidal limit.

The "Natural Conditions Assessment for Low pH and Low Dissolved Oxygen, Mattox Creek and Tributaries in Westmoreland and King George Counties, Virginia" was developed during the 2010 cycle. The report attributes the impairments to natural conditions and recommends that the watershed be reclassified as Class VII swampwaters. Until the WQS could be revised, the impairments were considered Category 4C.

Additional monitoring was conducted during the 2014 cycle:

0/2 at 1ACOW000.38
2/12 at 1AMAO007.46

The Monroe Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A31R_MRC01A98 Monroe Creek 12.27 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - Dissolved Oxygen - A31R-04-DO / 10023 / VAP-A31R-04 (CFL 2006)

During the 2006 cycle, Monroe Creek was assessed as not supporting the Aquatic Life Use based on pH and dissolved oxygen exceedances at 1AMRC003.12, which is located at Route 628.

The segment was adjusted during the 2012 cycle to add in all nontidal tributaries of Monroe Creek.

During the 2014 cycle, the watershed had the following DO exceedance rates:

4/12 at 1AMRC003.12
4/15 at 1AMRC004.04
4/14 at 1AXLQ000.73
4/14 at 1AXHM000.38

A Natural Conditions Assessment was completed during the 2014 cycle. The report attributed the DO exceedances to natural conditions and recommended that the watershed be reclassified as Class VII swampwaters. Until the WQS could be revised, the impairments were considered Category 4C.

The Monroe Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

DELIST 2018 - pH - A31R-04-PH / 10022 / VAP-A31R-04 (CFL 2006)

During the 2006 cycle, Monroe Creek was assessed as not supporting the Aquatic Life Use based on pH and dissolved oxygen exceedances at 1AMRC003.12, which is located at Route 628.

The segment was adjusted during the 2012 cycle to add in all nontidal tributaries of Monroe Creek based on violations at 1AXLQ000.73.

During the 2014 cycle, the watershed had the following pH exceedance rates:

12/12 at 1AMRC003.12
15/15 at 1AMRC004.04
13/14 at 1AXLQ000.73
13/14 at 1AXHM000.38

A Natural Conditions Assessment was completed during the 2014 cycle. The report attributed the pH exceedances to natural conditions and recommended that the watershed be reclassified as Class VII swampwaters. Until the WQS could be revised, the impairments were considered Category 4C.

The Monroe Creek watershed was reclassified as Class VII waters in the 2018 cycle. The pH criteria are now met and the impairment will be delisted.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A31R_POP01A00 Popes Creek 29.88 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - pH - A31R-03-PH / 10020 / VAP-A31R-03 (CFL 2006)

Popes Creek was initially assessed as not supporting the Aquatic Life Use during the 2006 cycle based on pH exceedances at 1APOP003.92, which is located off the George Washington National Birthplace's picnic area.

Additional monitoring was conducted throughout the watershed during the 2012 cycle. The pH impairment was confirmed due to widespread exceedances. The exceedance rates during the 2014 cycle are as follows:

6/12 at 1ABUP001.19
11/12 at 1AFOX000.23
11/12 at 1AGRU000.02
10/24 at 1APOP003.92
3/12 at 1APOP004.02
4/12 at 1AXLU000.73

A Natural Conditions Assessment was completed in September 2013. The report attributes the pH exceedances to natural conditions in the watershed and recommends that the nontidal watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairments were considered Category 4C.

The Popes Creek watershed was reclassified as Class VII waters in the 2018 cycle. The pH criteria are now met and the impairment will be delisted.

PARTIAL DELIST 2018 - Dissolved Oxygen - A31R-03-DO / 10019 / VAP-A31R-03 (CFL 2006)

Popes Creek was initially assessed as not supporting the Aquatic Life Use in 2006 based on dissolved oxygen exceedances at 1APOP003.92, which is located off the George Washington National Birthplace's picnic area.

Additional monitoring was conducted throughout the watershed during the 2012 cycle. The segment remained impaired for DO due to a violation rate of 2/12 at 1AFOX000.23; the remaining stations had acceptable violation rates.

A Natural Conditions Assessment was completed in September 2013. The report attributes the DO exceedances to natural conditions in the watershed and recommends that the nontidal watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairments were considered Category 4C.

The Popes Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A32E_GLB02B18 Aimes and Glebe Creeks 0.0149 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - A32E-12-SF / Fed ID 36224 (CFL 2008)

The Shellfish Use impairment was addressed in the Lower Machodoc Shellfish TMDL which was approved by the EPA on 12/29/2008 and by the SWCB on 4/28/2009. The TMDL was based on the extent in condemnation 005-083A, 12/28/2007.

In the 2018 cycle, the condemnation shrank (005-083E and -083F, 7/14/2016) and the open portion was partially delisted (Category 2C.)

VAP-A32E_LOW02D16 Lower Machodoc Creek 2.1447 Square Miles Deep-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - POTMH-DO-BAY / Fed ID 40923, 40924, and 40925 (CFL 2014)

POTMH failed the Deep Water Subuse's 30-day mean summer dissolved oxygen criteria during the 2016 cycle. It passed in the 2018 cycle. The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010; therefore, the subuse is Category 2C.

POTMH remains impaired for Open Water dissolved oxygen.

VAP-A33E_JCK01B18 Jackson Creek 0.0415 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - A33E-02-SF / 00923 / VAP-A33E-02 / Fed ID 36289 (CFL 1998)

VDH-DSS Condemnation Notice 006-143S1, 8/4/2016

The Shellfish Bacterial TMDL for Jackson Creek was approved by the EPA on 7/15/2009. The TMDL addressed the maximum extent of the condemnation, which occurred in condemnation 006-143B, 5/5/2005.

The condemnation has expanded and contracted several times.

The condemnation shrank in the 2018 cycle and the downstream portion was partially delisted (Category 2C).

VAP-A33R_XMB01A14 XMB - Hampton Hall
Branch, UT 3.48 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - A33R-04-DO (CFL 2014)

During the 2014 cycle, UT XMB was impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 2/12 at 1AXMB000.88, which is located at Route 618.

The DO exceedance rate was acceptable in the 2018 cycle (2/24) and the impairment will be delisted.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A34E_BBC01A08 Bridgemans Back Creek 0.0547 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - A34E-33-SF (CFL 2008)

Bridgemans Back Creek has been listed for the Shellfish Consumption Use since the 2008 cycle.

The impairment was considered nested within the Bridge Creek Bacterial TMDL, which was approved by the EPA on 12/18/2003.

Condemnation expanded in the 2016 cycle based on VDH Shellfish Condemnation 010-105E, 6/9/2014.

In the 2018 cycle, the area was reopened for harvest (010-105, 6/14/2016); therefore, it will be delisted.

VAP-A34E_COO02A14 Little Wicomico River /
Cod Creek 0.0121 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - A34E-11-SF (CFL 2014)

The Cod Creek shellfish condemnation expanded during the 2014 cycle and became larger than the 1998 closure (TMDL extent). This expansion was considered nested within the Cod Creek Shellfish TMDL which was approved by the EPA on 12/18/2003.

The condemnation expanded slightly in the 2016 cycle (portion of VDH condemnation 010-105G, 6/9/2014).

During the 2018 cycle, the Cod Creek condemnation shrank back to the TMDL extent (010-105G, 6/14/2016). The expansion will be delisted.

VAP-A34E_ELL01A06 Ellyson Creek 0.0977 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - A34E-29-SF (CFL 2016)

Ellyson Creek was impaired in the 2016 cycle due to VDH-DSS Condemnation 010-105C, 6/9/2014.

The impairment was nested in the Bridge Creek Shellfish TMDL, which was approved by the EPA on 12/18/2003.

In the 2018 cycle, the area was reopened for harvest (010-105, 6/14/2016); therefore, it will be delisted.

VAP-A34E_GLE04A04 Wrights Cove, UT 0.0464 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - A34E-23-SF (CFL 2014)

VDH Shellfish Condemnation 008-213C, 3/10/2014 - open in 3/5/2015

The impairment was nested within the Glebe Creek Shellfish TMDL, which was approved by the EPA on 12/18/2003.

It was open in the 3/5/2015 condemnation and will be delisted.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Potomac and Shenandoah River Basins

VAP-A34E_LIS01C18 Little Wicomico River 0.0155 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform 0.0156 mi2 - A34E-16-SF2 (CFL 2004)

VDH-DSS Condemnations 010-105M4, 6/14/2016

A segment of the Little Wicomico River was assessed as impaired in 1998 based on VDH SFC 105B 6/10/1997. During the 2004 cycle, the segment expanded and has subsequently expanded and contracted during various assessment cycles. However, the 2003 TMDL only covered the original 1998 impaired section, which is classified as Cat. 4A. The TMDL for the expansion is due in 2016.

During the 2016 cycle, condemnation 010-105A, 6/9/2014 expanded considerably and several impairments were merged (A34E-16-SF2 and A34E-30-SF). The impairment is considered nested within the upstream Little Wicomico River Shellfish TMDL, which was approved by the EPA on 12/18/2003.

The condemnation shortened and split in the 2018 cycle; in addition, a seasonally condemned portion (010-105M4) was split off and partially delisted.

VAV-B18R_BRY03A00 Briery Branch 7.18 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - pH - B18R-02-PH (2002)

Briery Branch was listed on the 303(d) list for violating the State's water quality standard for pH during the 2002 assessment period. During the 2002 assessment period, 2 excursions of 15 samples (13.3%) at station 1BBRY006.94 deviated from the pH water quality standard. Data assessed during the 2018 assessment period showed 0 excursions of 13 samples (0.00%) of the State's pH water quality standard at station 1BBRY06.94.

Based on this improvement in water quality below a 10.5% excursion rate, Briery Branch should be removed from the 303(d) list.

VAV-B31R_BCK02A18 Back Creek 3.22 Miles Aquatic Life Recreation

Delisting Summary:

DELIST 2018 - Benthics - 6.84 Miles - B31-01-BEN (2002)

This section of Back Creek/South Fork Back Creek was originally listed on the 303(d) list for exceeding the State's water quality General Standard for benthic macroinvertebrates during the 2002 assessment period. This was based on an impaired benthic status (Virginia Stream Condition Index (VSCI) < 60) at 1BCK000.78. Data from the 2018 assessment window indicate that this impaired condition has not changed. However, data assessed during the 2018 assessment period show a fully supporting status (Virginia Stream Condition Index (VSCI) > 60) at the upstream station 1BCK008.39. Based on this improvement in the benthic macroinvertebrate community above the fully supporting VSCI score of 60, the benthic impairment on portion of Back Creek/South Fork Back Creek should be shortened by 6.48 miles and this portion of Back Creek/South Fork Back Creek removed from the 303(d) list. The remaining impairment length on Back Creek is 6.01 miles.

DELIST 2018 - Bacteria - 6.84 Miles - B31R-01-BAC (2012)

This section of Back Creek and the South Fork Back Creek was originally listed on the 303(d) list for exceeding the State's water quality standard for e-coli bacteria during the 2012 assessment period. During the 2012 assessment period 2 of 9 samples (22.22%) at station 1BCK000.78 exceeded the State's water quality standard for e-coli bacteria. No additional data are available for assessment in the 2018 assessment window, however data assessed during the 2018 assessment period show 0 exceedences of 12 samples (0.00%) for e-coli bacteria at the upstream station 1BCK009.14. With this station indicating improvement in water quality below the 10.5% violation rate, the e-coli bacteria impairment on this portion of Back Creek/South Fork Back Creek should be shortened by 6.48 miles and this portion of Back Creek/South Fork Back Creek removed from the 303(d) list. The remaining impairment length on Back Creek is 6.01 miles.

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size		Uses Partially / Fully Restored
Potomac and Shenandoah River Basins				
VAV-B31R_BSK01A10	South Fork Back Creek	3.62 Miles	Aquatic Life	Recreation
Delisting Summary:				
DELIST 2018 - Benthics - 6.84 Miles - B31-01-BEN (2002)				
This section of Back Creek/South Fork Back Creek was originally listed on the 303(d) list for exceeding the State's water quality General Standard for benthic macroinvertebrates during the 2002 assessment period. This was based on an impaired benthic status (Virginia Stream Condition Index (VSCI) < 60) at 1BCK000.78. Data from the 2018 assessment window indicate that this impaired condition has not changed. However, data assessed during the 2018 assessment period show a fully supporting status (Virginia Stream Condition Index (VSCI) > 60) at the upstream station 1BBCK008.39. Based on this improvement in the benthic macroinvertebrate community above the fully supporting VSCI score of 60, the benthic impairment on portion of Back Creek/South Fork Back Creek should be shortened by 6.48 miles and this portion of Back Creek/South Fork Back Creek removed from the 303(d) list. The remaining impairment length on Back Creek is 6.01 miles.				
DELIST 2018 - Bacteria - 6.84 Miles - B31R-01-BAC (2012)				
This section of Back Creek and the South Fork Back Creek was originally listed on the 303(d) list for exceeding the State's water quality standard for e-coli bacteria during the 2012 assessment period. During the 2012 assessment period 2 of 9 samples (22.22%) at station 1BBCK000.78 exceeded the State's water quality standard for e-coli bacteria. No additional data are available for assessment in the 2018 assessment window, however data assessed during the 2018 assessment period show 0 exceedences of 12 samples (0.00%) for e-coli bacteria at the upstream station 1BBCK009.14. With this station indicating improvement in water quality below the 10.5% violation rate, the e-coli bacteria impairment on this portion of Back Creek/South Fork Back Creek should be shortened by 6.48 miles and this portion of Back Creek/South Fork Back Creek removed from the 303(d) list. The remaining impairment length on Back Creek is 6.01 miles.				
VAV-B35R_QAL01A00	Quail Run	4.39 Miles	Recreation	
Delisting Summary:				
PARTIAL DELIST 2018 - Bacteria - 5.14 Miles - B35R-02-BAC (2004)				
This section of Quail Run was originally listed on the 303(d) list for exceeding the State's water quality standard for fecal coliform bacteria during the 2004 assessment period. During the 2004 assessment period 3 of 20 samples (15%) at station 1BQAL004.30 violated the State's water quality standard for fecal coliform bacteria. Data assessed during the 2018 assessment period show 0 exceedences of 6 samples (0.00%) for e-coli bacteria at station 1BQAL004.30. Table 9 Additionally, data pro-actively looking forward confirms continuing support (0 exceedences of 7 (0.00%) samples for e-coli) at this station. With this station indicating improvement in water quality below the 10.5% exceedence rate, the e-coli bacteria impairment on this portion of Quail Run should be shortened by 5.14 miles and this portion of Quail Run removed from the 303(d) list. The upstream remaining impairment length is 1.46 miles.				
VAV-B35R_QAL02A00	Quail Run	0.73 Miles	Recreation	
Delisting Summary:				
PARTIAL DELIST 2018 - Bacteria - 5.14 Miles - B35R-02-BAC (2004)				
This section of Quail Run was originally listed on the 303(d) list for exceeding the State's water quality standard for fecal coliform bacteria during the 2004 assessment period. During the 2004 assessment period 3 of 20 samples (15%) at station 1BQAL004.30 violated the State's water quality standard for fecal coliform bacteria. Data assessed during the 2018 assessment period show 0 exceedences of 6 samples (0.00%) for e-coli bacteria at station 1BQAL004.30. Table 9 Additionally, data pro-actively looking forward confirms continuing support (0 exceedences of 7 (0.00%) samples for e-coli) at this station. With this station indicating improvement in water quality below the 10.5% exceedence rate, the e-coli bacteria impairment on this portion of Quail Run should be shortened by 5.14 miles and this portion of Quail Run removed from the 303(d) list. The upstream remaining impairment length is 1.46 miles.				

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Potomac and Shenandoah River Basins</i>			
VAV-B38R_SSF01A00	South Fork Shenandoah River	10.46 Miles	Recreation
<i>Delisting Summary:</i>			
PARTIAL DELIST 2018 - Bacteria - 16.44 Miles - B33R-01-BAC (2002)			
<p>This section of the South Fork Shenandoah River was originally listed on the 303(d) list for exceeding the State's water quality standard for fecal coliform bacteria during the 2002 assessment period. During the 2002 assessment period 9 of 59 samples (15.25%) at station 1BSSF054.20. Data assessed during the 2018 assessment period show 3 exceedences of 36 samples (8.33%) for e-coli bacteria at station 1BSSF054.20. With this station indicating improvement in water quality below the 10.5% exceedence rate, the e-coli bacteria impairment on this portion of the South Fork Shenandoah Rive should be removed from the 303(d) list. This delisted portion is 16.44 miles.</p> <p>PLEASE NOTE: These two assessment units were the most downstream of the original South Fork Shenandoah River bacteria impairment listed in 2002. In the 2014 assessment, all upstream assessment units were de-listed as they were fully supporting for bacteria. In the 2018 cycle, the most upstream assessment unit was re-listed as new data indicated an impaired status. The re-listed portion is 7.88 miles.</p>			
VAV-B38R_SSF02A10	South Fork Shenandoah River	5.98 Miles	Recreation
<i>Delisting Summary:</i>			
PARTIAL DELIST 2018 - Bacteria - 16.44 Miles - B33R-01-BAC (2002)			
<p>This section of the South Fork Shenandoah River was originally listed on the 303(d) list for exceeding the State's water quality standard for fecal coliform bacteria during the 2002 assessment period. During the 2002 assessment period 9 of 59 samples (15.25%) at station 1BSSF054.20. Data assessed during the 2018 assessment period show 3 exceedences of 36 samples (8.33%) for e-coli bacteria at station 1BSSF054.20. With this station indicating improvement in water quality below the 10.5% exceedence rate, the e-coli bacteria impairment on this portion of the South Fork Shenandoah Rive should be removed from the 303(d) list. This delisted portion is 16.44 miles.</p> <p>PLEASE NOTE: These two assessment units were the most downstream of the original South Fork Shenandoah River bacteria impairment listed in 2002. In the 2014 assessment, all upstream assessment units were de-listed as they were fully supporting for bacteria. In the 2018 cycle, the most upstream assessment unit was re-listed as new data indicated an impaired status. The re-listed portion is 7.88 miles.</p>			
VAV-B50R_NFS01A00	North Fork Shenandoah River	12.31 Miles	Recreation
<i>Delisting Summary:</i>			
DELIST 2018 - Bacteria - B50R-04-BAC (2012)			
<p>This section of the North Fork Shenandoah River was originally listed on the 303(d) list for exceeding the State's water quality standard for e-coli bacteria during the 2012 assessment period. During the 2012 assessment period 3 of 11 samples (27.27%) at station 1BNFS037.89. Data assessed during the 2018 assessment period show 0 exceedences of 11 samples (0.00%) for e-coli bacteria at station 1BNFS037.89.</p> <p>Based on this improvement in water quality below a 10.5% violation rate, this section of the North Fork Shenandoah River should be removed from the 303(d) list.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
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Potomac and Shenandoah River Basins

VAV-B51R_NFS04A00	North Fork Shenandoah River	3.78 Miles	Recreation
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Delisting Summary:

DELIST 2018 - Bacteria - 4.99 Miles - B51R-02-BAC (2010)

This section of the North Fork Shenandoah River was originally listed on the 303(d) list for exceeding the State's water quality standard for e-coli bacteria during the 2010 assessment period. During the 2010 assessment period 6 of 39 samples (15.38%) at station 1BNFS010.34. Data assessed during the 2018 assessment period show 3 exceedences of 58 samples (5.17%) for e-coli bacteria at station 1BNFS010.34.

Based on this improvement in water quality below a 10.5% violation rate, this section of the North Fork Shenandoah River (4.99 miles) should be removed from the 303(d) list. The remaining downstream impairment is 6.7 miles.

VAV-B51R_NFS04B10	North Fork Shenandoah River	1.21 Miles	Recreation
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Delisting Summary:

DELIST 2018 - Bacteria - 4.99 Miles - B51R-02-BAC (2010)

This section of the North Fork Shenandoah River was originally listed on the 303(d) list for exceeding the State's water quality standard for e-coli bacteria during the 2010 assessment period. During the 2010 assessment period 6 of 39 samples (15.38%) at station 1BNFS010.34. Data assessed during the 2018 assessment period show 3 exceedences of 58 samples (5.17%) for e-coli bacteria at station 1BNFS010.34.

Based on this improvement in water quality below a 10.5% violation rate, this section of the North Fork Shenandoah River (4.99 miles) should be removed from the 303(d) list. The remaining downstream impairment is 6.7 miles.

NOTE: Partial delists indicate at least one other pollutant exists on the Assessment Unit (AU). If "PARTIAL" is not specified in the delist statement, the AU is supporting all assessed Uses.

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

James River Basin

VAP-G01E_JMS01A02 James River 0.2392 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Estuarine Benthics 0.2392 mi² - G01E-02-EBEN (CFL 2012)

During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.

In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".

The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.

VAP-G01E_JMS02A02 James River 0.0156 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Estuarine Benthics 0.0156 mi² - G01E-02-EBEN (CFL 2012)

During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.

In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".

The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.

VAP-G01E_JMS03A02 James River 1.2289 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Estuarine Benthics 1.2289 mi² - G01E-02-EBEN (CFL 2012)

During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.

In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".

The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.

VAP-G01L_FAC01A98 Falling Creek Reservoir 88.37 Acres Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018-DO-VAP-G01L-01, G01L-01-DO (1998)

During the 2018 cycle station 2-FAC003.85 was fully supporting for DO with a exceedance rate of 3/33 and will be delisted.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
James River Basin			
VAP-G01R_XFU01A16	XFU - Pocoshock Creek, UT	3.83 Miles	Aquatic Life
<p>Delisting Summary:</p> <p>DELIST 2018 - pH - G01R-23-PH (CFL 2016)</p> <p>During the 2016 cycle, the tributary was assessed as impaired of the Aquatic Life Use due to a pH exceedance rate of 2/7 at ACB station 2CXFU-PSC-ACB, which is located off of Walmsley Boulevard.</p> <p>During the 2018 cycle, it was determined that one of the values was not QA/QC approved and was downgraded to level II data. The impairment will be delisted and the segment reclassified as Category 3B, with pH as an observed effect. Continued monitoring is recommended.</p>			
VAP-G02E_APP01A12	Appomattox River	0.1127 Square Miles	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - Sediment Bioassays Marine and Estuarine Water - J15E-01-EBTOX (CFL 2010)</p> <p>The Appomattox River from the confluence with Walthall Channel to its mouth was impaired of the Aquatic Life Use due to strong evidence of chemical contaminant-induced benthic degradation at Coastal 2000 weight-of-evidence station 2DAPP001.91, which was monitored in 2006.</p> <p>During the 2018 cycle, the segment was delisted due to weight of evidence results at the original listing station 2DAPP001.91 (WOE 2016 Category 2A TF Scenario 3) and also at station 2DAPP003.27 (WOE scenario 3 Category 2B OE-PAH).</p>			
VAP-G02E_JMS01A00	James River	0.0783 Square Miles	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - Estuarine Benthics 0.0783 mi2 - G01E-02-EBEN (CFL 2012)</p> <p>During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.</p> <p>In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".</p> <p>The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.</p>			

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

James River Basin

VAP-G02E_JMS02B18 James River 1.1818 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Estuarine Benthics 1.1819 mi² - G01E-02-EBEN (CFL 2012)

During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.

In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".

The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.

VAP-G02E_JMS03A06 James River 0.633 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Estuarine Benthics 0.632 mi² - G01E-02-EBEN (CFL 2012)

During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.

In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".

The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.

VAP-G03E_BLY01A98 Bailey Creek/Cattail Creek 0.1144 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - pH - G03E-01-PH / 01142 / VAP-G03E-01 (CFL 2004)

Tidal Bailey Creek was initially considered impaired for pH on the 2004 303(d) list due to high pH measurements at the Hopewell Region Monitoring and Assessment Project's (HERMA) stations.

During the 2016 cycle, the pH violation rate at 2-BLY000.65 was acceptable; however, the segment remained listed based on the downstream HERMA stations.

In the 2018 cycle, additional monitoring was conducted at station 2-BLY000.08 and 2-BLY000.33. The exceedance rates were acceptable (0/5); therefore, it will be delisted.

Continued monitoring is recommended.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>James River Basin</i>			
VAP-G03E_JMS01A00	James River	10.1939 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Estuarine Benthics 10.1939 mi2 - G01E-02-EBEN (CFL 2012)</p> <p>During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.</p> <p>In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".</p> <p>The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.</p>			
VAP-G03E_JMS01B10	James River	3.4854 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Estuarine Benthics 3.4854 mi2 - G01E-02-EBEN (CFL 2012)</p> <p>During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.</p> <p>In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".</p> <p>The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted. ?</p>			
VAP-G04E_JMS01A02	James River	7.7555 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Estuarine Benthics 7.7555 mi2 - G01E-02-EBEN (CFL 2012)</p> <p>During the 2012-2016 cycles, the mainstem of the tidal freshwater James River was impaired of the Aquatic Life Use due to an inadequate benthic community based on the Chesapeake Bay Benthic Index of Biological Integrity.</p> <p>In addition, there was benthic alteration at 2010 Coastal 2000 stations 2CJMS055.04 and 2CJMS084.70, which were considered Category 5A. The source is "possibly cumulative chronic effects of metals and PAHs in the sediment".</p> <p>The JMSTFa B-IBI segment met the goal in the 2018 cycle. The impairment will be shortened to those areas around the two Coastal 2000 stations. The remainder will be partially delisted.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>James River Basin</i>			
VAP-G04R_UCK01A08	Upper Chippokes Creek	5.61 Miles	Recreation
<p>Delisting Summary: DELIST 2018 - E. coli - G04R-02-BAC / 65505 (CFL 2008)</p> <p>During the 2008 cycle, Upper Chippokes Creek was assessed as not supporting of the Recreation Use support goal based on an E. coli violation rate of 2/10 at monitoring station 2-UCK007.73, which is located at the Route 10 bridge.</p> <p>The Upper Chippokes Creek impairment was addressed in the Turkey Island Creek and James River Westover Bacterial TMDL. The TMDL was approved by the SWCB on 10/1/2015 and by the EPA on 12/22/2015.</p> <p>However, additional monitoring was conducted during the 2018 cycle. The exceedance rate was acceptable (1/12); therefore, Upper Chippokes Creek will be delisted (Category 2C).</p>			
VAP-G05R_CHK01B10	Chickahominy River	2.3 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - pH - G05R-04-PH (CFL 2010 / 2012)</p> <p>During the 2010 cycle, the Chickahominy from the headwaters downstream to tributary XDD was assessed as not supporting of the Aquatic Life Use due to a pH violation rate of 3/16 at station 2-CHK079.23, which is located at the Route 33 bridge.</p> <p>The segment was extended during the 2012 cycle due to a violation rate of 5/36 at 2-CHK076.59, which is located at the Route 625 bridge.</p> <p>Additional monitoring occurred in the 2014 cycle. The exceedance rates in the original segment were acceptable; however, the 2012 expansion remained impaired. The original upstream portion was partially delisted. The downstream segment remained impaired in the 2016 cycle (7/37 at 2-CHK076.59).</p> <p>It was fully supporting in the 2018 cycle (2/35 at 2-CHK076.59) and will be delisted.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>James River Basin</i>			
VAP-G05R_SNF02A12	Stony Run and Tributaries	39.87 Miles	Aquatic Life

Delisting Summary:

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

James River Basin

PARTIAL DELIST 2018 - pH - G05R-12-PH (CFL 2012)

The watershed was monitored during the 2012 cycle due to a downstream bacterial impairment on Stony Run. The watershed showed extensive pH exceedances throughout and was impaired for the Aquatic Life Use.

6/12 at 2CXAG000.50
2/12 at 2-LKH000.04
2/12 at 2-LKH001.00
1/12 at 2-LKH001.46 (fully supporting)
2/12 at 2-LKH002.42
2/12 at 2-LKH003.42
0/12 at 2-SNF000.23 (fully supporting)
2/12 at 2-SNF000.87
3/12 at 2-SNF001.27
3/12 at 2-SNF001.58
4/12 at 2-SNF003.70
4/10 at 2-SNF005.59
5/10 at 2-SNF006.44
3/12 at 2-XOI000.65

A Natural Conditions Assessment was completed in December 2013. The report attributes the pH exceedances to natural conditions and recommends re-classifying the Stony Run watershed as Class VII swampwaters. Until the WQS could be revised, the impairment was considered Category 4C.

The watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional data was collected, the original 2012 cycle pH data was re-assessed using the current WQS; the pH exceedance rates were acceptable and the segment will be delisted for pH.

PARTIAL DELIST 2018 - Dissolved Oxygen - G05R-12-DO (CFL 2012)

The watershed was monitored during the 2012 cycle due to a downstream bacterial impairment on Stony Run. Monitoring showed moderate dissolved oxygen exceedances throughout the watershed and it was assessed as impaired for the Aquatic Life Use.

4/12 at 2CXAG000.50
3/12 at 2-LKH001.00
2/12 at 2-LKH002.42
3/12 at 2-SNF003.70
3/12 at 2-XOI000.65

The following stations had fully supporting exceedance rates:

0/12 at 2-LKH000.04
0/12 at 2-LKH001.46
1/12 at 2-LKH003.42
1/12 at 2-SNF000.23
0/12 at 2-SNF000.87
0/12 at 2-SNF001.27
1/12 at 2-SNF001.58
1/10 at 2-SNF005.59
1/10 at 2-SNF006.44

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

James River Basin

A Natural Conditions Assessment was completed in December 2013. The report attributes the dissolved oxygen exceedances to natural conditions and recommends re-classifying the Stony Run watershed as Class VII swampwaters. Until the WQS could be revised, the impairment was considered Category 4C.

The watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

VAP-G05R_XCJ01A16 XCJ - North Run, UT 0.42 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - G05R-15-DO (CFL 2016)

During the 2016 cycle, the ditch was impaired of the Aquatic Life Use due to dissolved oxygen exceedances at citizen monitoring station 2CXCJ-LSE-LSBG, which is located at the Lewis Ginter Botanical Garden driveway.

Monitoring at 2CXCJ-LSM-LSBG was acceptable.

The dissolved oxygen exceedance rate was acceptable during the 2018 cycle (4/41); therefore, the tributary will be delisted for DO.

VAP-G07R_PEL01B10 Pelham Swamp 1.57 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - Dissolved Oxygen - G07R-03-DO (CFL 2010)

During the 2010 cycle, the lower portion of Pelham Swamp was assessed as not supporting of the Aquatic Life Use due to dissolved oxygen violations at 2-PEL000.77, which is located off of Route 604. The exceedance rate was 7/12 during the 2012 cycle.

The Natural Conditions Assessment for Low pH and Low Dissolved Oxygen in Rumley Marsh, Pelham Swamp, and Tributaries was completed in January 2012. The report recommends that the lower portion of Pelham Swamp be reclassified as Class VII swampwaters. Until the WQS could be revised, it was considered Category 4C.

The watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
James River Basin			
VAP-G07R_RUM01A98	Rumley Marsh	4.59 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - Dissolved Oxygen 4.59 miles - G07R-02-DO / VAP-G07R-02 / 01165 (CFL 2004)			
Special studies conducted in Rumley Marsh and Jones Run in 1994 identified summertime DO exceedances in Rumley Marsh at station 2-RUM002.46.			
Rumley Marsh was threatened in 1998 and downgraded in 2002. During the 2008 cycle, additional monitoring was conducted at 2-RUM004.38, which is located at the Route 617 bridge. The monitoring confirmed the impairment. The violation rate during the 2010 cycle was 7/15. In addition, station 2-RUM002.46 had a violation rate of 5/6 and station 2-RUM005.54 was 1/6 (IN).			
During the 2014 cycle, the dissolved oxygen exceedance rates were as follows: 18/30 at 2-RUM002.46 11/27 at 2-RUM004.38 (2012) 3/12 at 2-RUM005.54			
During the 2010 cycle, the segment was assessed as not supporting of the Aquatic Life Use due to a pH violations at 2-RUM002.46 and 2-RUM005.54. During the 2014 cycle, the pH exceedance rates were as follows: 6/30 at 2-RUM002.46 4/28 at 2-RUM004.38 (2012) 9/12 at 2-RUM005.54			
The Natural Conditions Assessment for Low pH and Low Dissolved Oxygen in Rumley Marsh, Pelham Swamp, and Tributaries was completed in January 2012. The report recommended that Rumley Marsh from its headwaters to its confluence with tributary XWS be reclassified as Class VII swampwater; until the WQS could be revised the upper portion was assessed as Category 4C. However, it indicates that the nutrients in lower Rumley Marsh are too high. It is believed that the Chesapeake Bay TMDL will reduce nutrients in nonpoint source runoff.			
The upper watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed (partial delist) in the upper portion.			
PARTIAL DELIST 2018 - pH 4.59 Miles - G07R-02-PH (CFL 2010)			
During the 2010 cycle, the segment was assessed as not supporting of the Aquatic Life Use due to pH violations at 2-RUM002.46 and 2-RUM005.54. During the 2014 cycle, the pH exceedance rates were as follows: 6/30 at 2-RUM002.46 4/28 at 2-RUM004.38 (2012) 9/12 at 2-RUM005.54			
The Natural Conditions Assessment for Low pH and Low Dissolved Oxygen in Rumley Marsh, Pelham Swamp, and Tributaries was completed in January 2012. The report recommends that Rumley Marsh from its headwaters to its confluence with tributary XWS be reclassified as Class VII swampwater; until the WQS could be revised the upper portion was assessed as Category 4C. However, it indicates that the nutrients in lower Rumley Marsh are too high for the current swampwater protocol. It is believed that the Chesapeake Bay TMDL will reduce nutrients in nonpoint source runoff.			
The upper Rumley Marsh watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional pH data has been collected, a review of the previous pH data indicates that the upper watershed meets the newly designated Class VII watershed pH criteria of 3.7-8.0 SU. The Class VII portion of the pH impairment will be partially delisted.			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
James River Basin			
VAP-G07R_XAA01A10	Rumley Marsh, UT	1.76 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - pH - G07R-05-PH (CFL 2012)</p> <p>During the 2012 cycle, XAA was assessed as not supporting of the Aquatic Life Use due to a pH exceedance rate of 3/12 at 2CXAA000.08.</p> <p>The Natural Conditions Assessment for Low pH and Low Dissolved Oxygen in Rumley Marsh, Pelham Swamp, and Tributaries was completed in January 2012. The report recommends that the tributary be reclassified as Class VII swampwaters. Until the WQS could be revised, it was considered Category 4C.</p> <p>The upper Rumley Marsh watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional pH data has been collected, a review of the previous pH data indicates that XAA meets the newly designated Class VII watershed pH criteria of 3.7-8.0 SU. The pH impairment will be delisted.</p>			
VAP-H38R_LLI01A12	Little Creek	0.65 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - pH - H38R-01-PH (CFL 2012)</p> <p>Little Creek was impaired of the Aquatic Life Use during the 2012 cycle due to a pH violation rate of 2/12 at 2-LLI000.58, which is located off of Route 607. Additional monitoring was conducted in the 2018 cycle. The exceedance rate was acceptable (0/11); therefore, the stream will be delisted.</p>			
VAP-H39R_LIY01A00	Little Tuckahoe Creek	6.02 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Dissolved Oxygen - H39R-24-DO (CFL 2014)</p> <p>The Tuckahoe Creek Natural Conditions Assessment report was completed in November 2005. The DO violations on Little Tuckahoe Creek were determined to be at periods when the stream flows were <7Q10 and the stream was recommended for delisting. The stream was delisted during the 2006 cycle.</p> <p>During the 2014 cycle, the exceedance rate was 2/11; therefore, Little Tuckahoe Creek was relisted as impaired of the Aquatic Life Use.</p> <p>No additional data was collected during the 2018 cycle; however, it was determined that Little Tuckahoe Creek was below the 7Q10 on the day of one of the dissolved oxygen exceedances. Dissolved oxygen criteria are not in effect below 7Q10 and the exceedance rate was acceptable (1/10). The relisting was in error and it will be delisted in the 2018 cycle.</p>			
VAP-H39R_SNJ02A04	Stony Run	1.35 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Dissolved Oxygen 1.35 Miles - H39R-02-DO / VAP-H39R-02 / 00687 (CFL 2006)</p> <p>The Tuckahoe Creek Natural Conditions Assessment report was completed in November 2005. The report attributes the low dissolved oxygen in Stony Run to natural low-flow conditions and recommends the segment be assessed as a Cat. 4C water. Additional monitoring was conducted at 2-SNJ000.19 in the 2016 cycle; however, there was insufficient data for assessment (1/9). One additional sample was collected at 2-SNJ001.41 (DO 0/1.) The exceedance rate was acceptable during the 2018 cycle (1/21 at 2-SNJ000.19); therefore Stony Run will be partially delisted.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
James River Basin			
VAP-H39R_XZE01A10	James River, UT	1.3 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Dissolved Oxygen - H39R-07-DO (CFL 2010)</p> <p>During the 2010 cycle, the tributary was assessed as not supporting of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 5/12 at station 2-XZE000.19, which is located at a private drive downstream of Tarrington.</p> <p>Additional monitoring was conducted at 2-XZE000.38 in the 2018 cycle. The exceedance rate was acceptable (1/12); therefore, the stream will be delisted.</p>			
VAP-J11R_WDY01A00	Woody Creek	7.97 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018-DO- J11R-05-DO, VAP-J11R-05 (2014)</p> <p>During the 2018 cycle the segment became fully supporting for DO with an exceedance rate of 3/29.</p>			
VAP-J15E_APP01A98	Lower Appomattox River/Ashton Creek	0.5066 Square Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018- E.coli .5066 Square Miles-J15E-01-BAC, VAP-J15E-01(2016)</p> <p>During the 2018 cycle the segment was no longer impaired for E.coli at station 2-APP-A02-JRA due to an error during the 2016 cycle, the data is level II with an exceedance rate of 12/29 and is observed effects for E.coli. Station 2-APP009.52 had no new data since 2014 cycle.</p>			
VAP-J15E_APP02A98	Appomattox River	1.3614 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018- Sediment Bioassays Estuarine and Marine Water -J15E-01-EBTOX, CB-APPTF(2010)</p> <p>During the 2018 cycle the segment became fully supporting due to weight of evidence results at the original listing station 2DAPP001.91(WOE 2016 Category 2A TF Scenario3) and also at station 2DAPP003.27 (WOE scenario 3 Category 2B OE-PAH).</p>			
VAP-J15R_APP01A98	Appomattox River	5.57 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018-Benthics-VAP-J15R-01, J15R-01-BEN(2012)</p> <p>During the 2012 cycle, the segment was shortened from 7.502 miles to 5.13 miles. The segment is impaired for Benthics at station 2DAPP015.51. During the 2014 and 2016 cycle the segment remained impaired for benthics since there was no new data this cycle. During the 2018 cycle the segment became fully supporting for benthics</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>	
James River Basin				
VAP-J17R_NUT01A06	Nuttree Branch	5.58 Miles	Aquatic Life	
<p>Delisting Summary: PARTIAL DELIST 2018-pH-J17R-06-PH, VAP-J17R-06(2010)</p> <p>During the 2018 cycle the pH is fully supporting and will be delisted.</p>				
VAT-G10E_ZZZ01A00	Unsegmented estuaries in G10E	1.1243 Square Miles	Aquatic Life	
<p>Delisting Summary: PARTIAL DELIST 2018 - ESTUARINE BIOASSESSMENT - G10E-05-EBEN (2016)</p> <p>Aquatic Life Use for Dissolved Oxygen is supporting based on summer and rest-of-year 30-day mean data. Submerged Aquatic Vegetation is fully supporting based on meeting acreage requirements. The benthic impairment is not applicable in this AU; therefore the impairment was delisted in the 2018 IR.</p> <p>There is insufficient pH data at ProbMon stations 2CBKR000.23 (0 viol/ 3 obs) and 2CTFR000.62 (0 viol/ 2 obs). Benthics were also analyzed at the aforementioned stations and are reserved for judgement.</p>				
VAT-G10E_ZZZ02A00	Unsegmented estuaries - Hog Point Area	0.0043 Square Miles	Aquatic Life	
<p>Delisting Summary: PARTIAL DELIST 2018 - ESTUARINE BIOASSESSMENT - G10E-05-EBEN (2016)</p> <p>Aquatic Life Use is delisted for the benthic community impairments (B-IBI) in 2018 IR. The benthic analysis is not applicable in this segment. Dissolved oxygen is supporting based on summer and rest-of-year 30-day mean data. Chlorophyll-a data is supporting for both summer and rest-of-year. Submerged Aquatic Vegetation is fully supporting based on meeting acreage requirements.</p>				
VAT-G11E_JMS01A06	James River - Gravel Neck to Pagan River	40.2596 Square Miles	Aquatic Life	Open-Water Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage. Benthics is now impaired in the 2018 IR. DO and Chlorophyll-a are supporting ALUS. Chlorophyll a impairment is delisted in the 2018 IR.</p> <p>The impairment is added for the 2008 IR cycle. As the impairment is related to the EPA's 1998 303(d) overlisting as impaired for the Aquatic Life Use; the impairment was attributed to excessive nutrients. 1998 CD segment for nutrients (Attachment A, Category 1, Part 2) VAT-G10E-04. Previous Use ID = VAT-G10E-04.</p> <p>Site Specific pH data at Stations: 2-JMS021.04 0 viol / 522 obs 2-JMS025.74 WoE assessment from 2016 is 2A "very low potential for chronic effect"</p>				

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>		<i>Uses Partially / Fully Restored</i>
James River Basin				
VAT-G11E_JMS01C08	James River - Carter Grove Area	0.4038 Square Miles	Aquatic Life	Open-Water Aquatic Life
<i>Delisting Summary:</i>				
PARTIAL DELIST 2018 - CHLOROPHYLL - G10E-04-CHLA (2008)				
Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage . Chlorophyll-a and summer and rest-of-year 30-day mean dissolved oxygen data are supporting. Delisted chlorophyll a impairment in 2018 IR.				
Benthics are not supporting ALUS in the 2018 IR based on the CB benthic assessment for segment JMSMHa.				
Chesapeake Bay TMDL approved 12/29/010.				
VAT-G11E_JMS02A06	James River - Jail Point to Hilton Village	24.697 Square Miles	Aquatic Life	
<i>Delisting Summary:</i>				
PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)				
Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage and Benthics assessment. Chl a is delisted in the 2018 IR. The dissolved oxygen data is supporting.				
VAT-G11E_JMS03A06	James River - Along Lower North Shore	3.9425 Square Miles	Aquatic Life	
<i>Delisting Summary:</i>				
PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)				
Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage. Benthics is now impaired in the 2018 IR. DO and Chlorophyll-a are supporting ALUS. Chlorophyll a impairment is delisted in the 2018 IR.				
Site Specific pH data at Station JMS017.96: 0 viol/ 291 obs.				
VAT-G11E_JMS03B06	James River - Hilton Beach Area	0.1102 Square Miles	Aquatic Life	
<i>Delisting Summary:</i>				
PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)				
Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage. Benthics is now impaired in the 2018 IR. DO and Chlorophyll-a are supporting ALUS. Chlorophyll a impairment is delisted in the 2018 IR.				

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
James River Basin			
VAT-G11E_JMS03C06	James River - Huntington Beach Area	0.008 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage. Benthics is now impaired in the 2018 IR. DO and Chlorophyll-a are supporting ALUS. Chlorophyll a impairment is delisted in the 2018 IR.</p>			
VAT-G11E_JMS04A06	James River - Hilton Village to Craney Island	24.8793 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage. Benthics is now impaired in the 2018 IR. DO and Chlorophyll-a are supporting ALUS. Chlorophyll a impairment is delisted in the 2018 IR.</p> <p>Site Specific pH data at Stations 2-JMS013.10 pH: 0 viol/ 379 obs</p>			
VAT-G11E_JMS06A10	James River - Outside Mouth Streeter & Hoffer Creeks	0.1556 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage. Benthics is now impaired in the 2018 IR. DO and Chlorophyll-a are supporting ALUS. Chlorophyll a impairment is delisted in the 2018 IR.</p> <p>1998 CD segment for nutrients (Attachment A, Category 1, Part 2) VAT-G10E-04. Previous Use ID = VAT-G10E-04.</p>			
VAT-G11E_PGN01B18	Pagan River - Upper Middle	0.0653 Square Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018 IR - ENTEROCOCCUS- G11E-05-BAC (1998)</p> <p>The Recreation Use is delisted in 2018 IR based on data meeting the Enterococcus bacteria instantaneous criteria at stations 2-PGN006.65 with 3 viol/ 31 obs.</p> <p>1998 CD segment for FC (Attachment A, Category 1, Part 1) VAT-G11E-04 & 1998 CD segment for FC & DO (Attachment A, Category 1, Part 1 & Attachment B) VAT-G11E-05.</p> <p>Bacteria impairment was covered under TMDL (35579) 'Pagan River & Jones Creek', EPA approved 2/12/2008.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
James River Basin			
VAT-G11E_PGN02B14	Pagan River - Lower	0.1618 Square Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018- ENTEROCOCCUS - G11E-22-BAC (2014)</p> <p>The Recreation Use impairment is delisted in the 2018 IR with 3 viol / 30 obs at station 2-PGN001.19 now meeting Enterococcus assessment criteria and WQS.</p>			
VAT-G11E_PGN02C18	Pagan River - Lower SF Open	0.0838 Square Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018- ENTEROCOCCUS - G11E-22-BAC (2014)</p> <p>The Recreation Use impairment is delisted in the 2018 IR with 3 viol / 30 obs at station 2-PGN001.19 now meeting Enterococcus assessment criteria and WQS.</p>			
VAT-G11E_PGN02D16	Pagan River - Jones Cr	0.0203 Square Miles	Shellfishing
<p>Delisting Summary: PARTIAL DELIST 2018 - FECAL COLIFORM- G11E-10-SF (2008)</p> <p>The Shellfishing Use is supporting with an observed effect based on revised DSS shellfish direct harvesting condemnation # 061-064 M2 (20160502)</p> <p>Bacteria impairment covered under TMDL (35579) 'Pagan River & Jones Creek', EPA approved 2/12/2008. 1999 CD segment for shellfish (Attachment A, Category 3) VAT-G11E-10.</p>			
VAT-G11E_SFF03A10	Skiffes Creek - Mouth	0.0595 Square Miles	Aquatic Life Open-Water Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - CHLOROPHYLL- G10E-04-CHLA (2016)</p> <p>Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage and Benthics (B-IBI) for the bay segment JMSMHa. The DO summer and rest-of-year 30-day mean dissolved oxygen data are supporting. Chlorophyll was listed in error in the 2016 IR.</p> <p>EPA approved Chesapeake Bay TMDL 12/29/2010.</p>			

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

James River Basin

VAT-G14L_NWB01A08 Lake Burnt Mills 637.99 Acres Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018-PH-G14L-01-PH (2016)

The pH impairment is delisted in the 2018 IR. Pooled pH for Lake Burnt Mills is supporting the Aquatic Life Use with a violation rate of 7.9 % (10 viol/ 126 obs).

The Aquatic Life Use is impaired based on dissolved oxygen concentrations below the DEQ minimum allowable instantaneous criteria. Pooled DO exceedance rate 26.4% (36 violates/ 136 obs). Individual station exceedances include 2-NWB007.04 (8 viol/ 38 obs), BM1 (10 viol/ 51 obs), BM2 (14 viol/ 40 obs), 2GRW-3-IRC (4 viol/ 6 obs).

Lake Burnt Mills pooled nutrient results: Fully supporting with 0 viol/ 2 obs for Chl-a (2016 and 2013).

VAT-G14L_NWB02A08 Western Branch Reservoir 1209.67 Acres Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018-DO-G14L-02-DO (2006)

DO impairment is delisted in the 2018 IR based on now supporting data. Pooled DO violation rate is 6.4% (38 violates/ 586 obs). Individual station exceedance are 2-NWB002.93 (3 viol/ 86 obs), 2-NWB004.67 (3 violates/ 66 obs), 2-NWB006.06 (4 viol/ 45 obs), WB1 (5 viol/ 132 obs), WB2 (9 viol/ 122 obs), WB4 (9 viol/ 83 obs).

Pooled pH data is fully supporting with 0 viol/ 591 obs

Western Branch Reservoir pooled nutrient results: 2 viol/ 2 obs TP 2015,2012 (IM); (algaecide application) Pooled pH data is supporting for Aquatic Life Use.

Previously, Sediment metals data are supporting the Aquatic Life Use. Sediment toxics for stations 2-NWB002.93, 2-NWB004.14, 2-NWB004.67, 2-NWB006.06 have an observed effect for toxics Chlordane, DDD, DDE, and Heptachlor epoxide.

VAT-G15E_EBE03A18 Eastern Branch,
Elizabeth R. - Lower 0.39 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018-ENTEROCOCCUS- G15E-02-06-BAC (2006)

The Recreation Use is delisted in the 2018 IR based on Enterococcus data at station 2-EBE000.40 (6 viol/ 62 obs).

Elizabeth River Enterococcus TMDL EPA approved 7/20/2010.

1999 CD segment for FC (Attachment A, Category 1, Part 1 & Attachment B) VAT-G15E-02-02.

Waters Identified for Delisting Since 2016 Report

Assessment

<i>Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses</i>	<i>Partially / Fully Restored</i>
James River Basin				
VAT-G15E_JMS01A00	James River at Hampton Roads Harbor	25.5404 Square Miles	Aquatic Life	Open-Water Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is supporting for the James Polyhaline (JMSPH) Chesapeake Bay Program segment based on Chlorophyll-a, DO, SAV and benthics. The summer and spring impairment for Chla is delisted in the 2018 IR. Summer and rest-of-year 30-day mean dissolved oxygen data are supporting. Submerged aquatic vegetation is supporting based on acreage. Benthics are supported.</p> <p>EPA approved Chesapeake Bay TMDL 12/29/2010.</p> <p>Site Specific pH data at the following stations:</p> <p>2-JMS000.50: 0 viol/ 1 obs 2-JMS005.72: 0 viol/ 1012 obs LE5.5: 0 viol/ 639 obs</p> <p>Benthic WoE assessments from 2016 at stations 2CJMS004.29 & 2-JMS002.14 are assessed FS with 2A and 2B (a slight potential of chronic effects from chemical contamination. A possibility exists of particle size influence in toxicity tests.)</p>				
VAT-G15E_JMS01B06	James River - King/Lincoln Park Beach Area	0.0092 Square Miles	Aquatic Life	Open-Water Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is supporting for the James Polyhaline (JMSPH) Chesapeake Bay Program segment based on summer and fall Chlorophyll-a. Benthics are fully supporting. Summer and rest-of-year 30-day mean dissolved oxygen data are supporting. Submerged aquatic vegetation is supporting based on acreage.</p> <p>EPA approved Chesapeake Bay TMDL 12/29/2010.</p>				
VAT-G15E_JMS01C06	James River - Anderson Park Beach Area	0.0113 Square Miles	Aquatic Life	Open-Water Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is supporting for the James Polyhaline (JMSPH) Chesapeake Bay Program segment based on summer and fall Chlorophyll-a. Benthics are fully supporting. Summer and rest-of-year 30-day mean dissolved oxygen data are supporting. Submerged aquatic vegetation is supporting based on acreage.</p> <p>EPA approved Chesapeake Bay TMDL 12/29/2010.</p>				

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
James River Basin			
VAT-G15E_JMS05A06	James River - Newport News Point to NW Corner Craney Isl.	3.6108 Square Miles	Aquatic Life Open-Water Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018- CHLOROPHYLL- G10E-04-CHLA (2008)</p> <p>Aquatic Life Use is not supporting for the James Mesohaline (JMSMH) Chesapeake Bay Program segment based on Aquatic Vegetation acreage. Benthics (B-IBI) is impaired for JMSMHa segments. The summer and rest-of-year 30-day mean dissolved oxygen data are supporting. Chla is now supporting in the 2018 IR.</p> <p>1998 CD segment for nutrients (Attachment A, Category 1, Part 2) VAT-G10E-04. Previous Use ID = VAT-G10E-04.</p>			
VAV-H30R_MCK03A18	Mechunk Creek	9.55 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - Benthic Macroinvertebrates - 9.56 Miles - H30R-01-BEN (2012)</p> <p>This section of Mechunk Creek was originally listed on the 303(d) list for exceeding the State's water quality General Standard for benthic macroinvertebrates during the 2012 assessment period. This was based on an impaired benthic status (Virginia Stream Condition Index (VSCI) < 60) at 2-MCK007.47. Data from the 2018 assessment window indicate that this impaired condition has not changed. However, data assessed during the 2018 assessment period show a fully supporting status (Virginia Stream Condition Index (VSCI) > 60) at the upstream station 2-MCK011.68. Based on this improvement in the benthic macroinvertebrate community above the fully supporting VSCI score of 60, the benthic impairment on portion of Mechunk Creek should be shortened by 9.56 miles and this portion of Mechunk Creek removed from the 303(d) list. The remaining impairment length on Mechunk Creek is 3.04 miles.</p>			
VAV-H32R_CNM02A04	Middle Fork Cunningham Creek	4.02 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Benthic Macroinvertebrates - 4.02 Miles - H32R-01-BEN (2004)</p> <p>This section of Cunningham Creek was originally listed on the 303(d) list for exceeding the State's water quality General Standard for benthic macroinvertebrates during the 2004 assessment period. This was based on an impaired benthic status (Virginia Stream Condition Index (VSCI) < 60) at 2-CNM003.82. Data from the 2018 assessment window indicate that this impaired condition has not changed. However, data assessed during the 2018 assessment period show a fully supporting status (Virginia Stream Condition Index (VSCI) > 60) at the upstream station 2-CNM-CZA01-RCA. These data are provided by the Rivanna Conservation Alliance (formerly Stream Watch) and are a Level III data contributor to the Virginia DEQ. Level III data are of the same quality of DEQ data and use support assessments can be made from them. Based on this improvement in the benthic macroinvertebrate community above the fully supporting VSCI score of 60, the benthic impairment on portion of Cunningham Creek should be shortened by 4.02 miles and this portion of Cunningham Creek removed from the 303(d) list. The remaining impairment length on Cunningham Creek is 3.41 miles.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
James River Basin			
VAV-I13R_BLP01A00	Bullpasture River	12.62 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - Temperature - I13R-02-TEMP (2012)			
The Bullpasture River was listed on the 303(d) list for exceeding the State's water quality standard for temperature during the 2012 assessment period. During the 2012 assessment period 8 exceedences of 66 samples (12.12%) at station 2-BLP000.79 exceeded the State's Stockable Trout temperature standard. Data assessed during the 2018 assessment period showed 2 exceedences of 42 samples (4.76%) of the State's Stockable Trout temperature standard at station 2-BLP000.79.			
Based on this improvement in water quality below a 10.5% violation rate, the Bullpasture River should be removed from the 303(d) list.			
VAV-I38R_NBF01A00	Buffalo Creek North Fork	2.92 Miles	Recreation
Delisting Summary:			
DELIST 2018 - Bacteria - I38R-04-BAC (2012)			
The North Fork Buffalo Creek was originally listed on the 303(d) list for exceeding the State's water quality standard for e-coli bacteria during the 2012 assessment period. During the 2012 assessment period 2 of 12 samples (16.67%) at station 2-BFN000.07. Data assessed during the 2018 assessment period show 1 exceedences of 12 samples (8.33%) for e-coli bacteria at station 2-BFN000.07.			
Based on this improvement in water quality below a 10.5% violation rate, the North Fork Buffalo Creek should be removed from the 303(d) list.			
VAV-I38R_NBF02A10	Buffalo Creek North Fork	4.65 Miles	Recreation
Delisting Summary:			
DELIST 2018 - Bacteria - I38R-04-BAC (2012)			
The North Fork Buffalo Creek was originally listed on the 303(d) list for exceeding the State's water quality standard for e-coli bacteria during the 2012 assessment period. During the 2012 assessment period 2 of 12 samples (16.67%) at station 2-BFN000.07. Data assessed during the 2018 assessment period show 1 exceedences of 12 samples (8.33%) for e-coli bacteria at station 2-BFN000.07.			
Based on this improvement in water quality below a 10.5% violation rate, the North Fork Buffalo Creek should be removed from the 303(d) list.			
VAW-I18R_JMS01A00	James River	7.77 Miles	Recreation
Delisting Summary:			
DELIST 2018 - Bacteria - I18R-01-BAC / VAW-I18R-01 (2014)			
The waters are delisted based on data collections at station 2-JMS345.73 (Route 220 - First Bridge below Cowpasture). Station 2-JMS345.73 2018 IR Escherichia coli (E.coli) data produce results with three excursions of the WQS 235 cfu/100 mL instantaneous criterion from 36 observations. Excursions range from 250 to 550 cfu/100ml.			

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

James River Basin

VAW-I18R_JMS02A00	James River	7.63 Miles	Recreation
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Delisting Summary:

DELIST 2018 - Bacteria - I18R-01-BAC / VAW-I18R-01 (2014)

The waters are delisted based on data collections at station 2-JMS345.73 (Route 220 - First Bridge below Cowpasture). Station 2-JMS345.73 2018 IR Escherichia coli (E.coli) data produce results with three excursions of the WQS 235 cfu/100 mL instantaneous criterion from 36 observations. Excursions range from 250 to 550 cfu/100ml.

VAW-I23R_CVA01A02	Cove Branch	6.04 Miles	Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - General Standard (Benthics) - VAW-I19R-01 / I23R-01-BEN (2008)

These waters are delisted based on Virginia Stream Condition Index (VSCI) data collection at 2-CVA002.15 (Cove Branch at Potts Arm Trail Crossing, Craig Co.). VSCI Scores are as follows: Spring 2015 70.2, Fall 2015 72.7, Spring 2016 77.0, Fall 2016 76.7. Regional Biologist notes: This station was sampled to validate USFS assessments from Cove Branch at locations further upstream. The DEQ station was located closer to a USFS road crossing and upstream of a private residence. Despite low pH measurements, the benthic community has high diversity, is dominated by pollution-sensitive taxa and has low numbers of acid-tolerant stoneflies. VA Dept. of Game and Inland Fisheries surveys indicate a healthy population of brook trout in this section of Cove Branch (pers. Comm: Joe Williams, VDGIF).

The 2008 Listing of these category 4C waters occurred due to a Level 3 U.S. Forest Service 2005 MAIS survey of 9. Station 6511 is located in the headwaters of Cove Branch approximately 4 miles from its confluence with Barbours Creek. The USGS 7.5 Minute Quadrangle shows station 6511 to be located in the intermittent headwater portion of Cove Branch and may not be indicative of the perennial waters further downstream. In developing the Virginia Stream Condition Index (VSCI) investigators found the benthic community composed of different aquatic insects than that found in perennial waters. Therefore the use of the VSCI for intermittent headwater streams is discouraged as it may not be applicable. Based on this judgment the waters were categorized 4C in 2008.

NOTE: Partial delists indicate at least one other pollutant exists on the Assessment Unit (AU). If "PARTIAL" is not specified in the delist statement, the AU is supporting all assessed Uses.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Rappahannock River Basin</i>			
VAN-E01R_RPP02A00	Rappahannock River	2.27 Miles	Recreation
Delisting Summary:			
DELIST 2018 - E. coli - E01R-03-BAC, 00317, VAN-E01R-03 (CFL 2002)			
During the 2016 cycle, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion (9 of 33 samples - 27.3%) recorded at DEQ ambient water quality monitoring station 3-RPP175.51 at Route 647. Bacteria monitoring at this location for the 2018 cycle found that 3 of 31 samples (9.7%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based upon an acceptable exceedance rate.			
VAN-E02R_CAE03A06	Carter Run	1.63 Miles	Recreation
Delisting Summary:			
DELIST 2018 - E. coli - F02R-06-BAC, VAN-F02R-01 (CFL 2006)			
During the 2012, 2014, and 2016 cycles, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion (2 of 4 samples - 50.0%) recorded at DEQ ambient water quality monitoring station 3-CAE015.01 at a private road off of Route 719. Additional bacteria monitoring at this location in 2015 found that 1 of 12 samples (8.3%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based upon an acceptable exceedance rate.			
VAN-E05R_RUS02B18	Rush River	3.08 Miles	Recreation
Delisting Summary:			
DELIST 2018 - E. coli - E05R-01-BAC, VAN-F05R-01 (CFL 2002)			
During previous cycles, this segment was included with a downstream portion of Rush River, with the recreation use assessed as impaired during the 2010, 2012, 2014, and 2016 cycles due to excursions from the maximum E. coli bacteria criterion recorded at DEQ ambient station 3-RUS005.66 (5 of 14 samples - 35.7%) at Route 683 (upstream of Route 211/522) and at station 3-RUS005.24 (3 of 11 samples - 27.3%) at Route 626. Additional bacteria monitoring has been conducted at DEQ ambient station 3-RUS005.24 at Route 626; results from the samples collected in 2015 and 2016 found that 2 of 11 samples (18.2%) exceed the maximum E. coli bacteria criterion. Additional bacteria monitoring has also been conducted at DEQ ambient station 3-RUS007.41 at Route 624; results from the samples collected in 2015 and 2016 found that 0 of 11 samples (0.0%) exceed the maximum E. coli bacteria criterion. As a result, this upstream segment (3.08 miles) was split from the downstream portion of the former segment. It has been determined that this segment should be delisted for E. coli based on an acceptable exceedance rate at DEQ ambient station 3-RUS007.41.			
VAN-E10R_DPR02A02	Deep Run	3.02 Miles	Recreation
Delisting Summary:			
DELIST 2018 - Fecal Coliform - E10R-01-BAC, E10R-01-BAC (CFL 2006)			
Since the 2006 cycle, this segment was assessed as not supporting the recreation use because of exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 - 28.6%) recorded at DEQ ambient water quality monitoring station 3-DPR004.93 at Route 752. E. coli bacteria monitoring at this location in 2015 found that 0 of 4 samples (0.0%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for fecal coliform bacteria based upon an acceptable E. coli bacteria exceedance rate.			

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
Rappahannock River Basin			
VAN-E20E_RPP01A02	Rappahannock River	0.1884 Square Miles	Recreation
Delisting Summary:			
PARTIAL DELIST 2018 - E. coli - E20E-01-BAC, CB-RPPTF (CFL 2002)			
<p>During the 2014 cycle, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion within the downstream segment (10 of 68 samples - 14.7% at station 3-RPP098.81, located at Buoy 112 (within the same VAHUC6 as this segment)) and within the upstream segment (3 of 17 samples - 17.6% at station 3-RPP104.47, located one hundred yards below the Massaponax Wastewater Treatment Facility (within the upstream VAHUC6)). During the 2016 cycle, the downstream segment was delisted for E. coli based on an acceptable exceedance rate; however, this segment remained impaired based on the upstream monitoring (2 of 6 samples - 33.3% excursion at station 3-RPP104.47; all sampling conducted during 2009). During the 2018 cycle, there are no E. coli bacteria data available for the upstream station 3-RPP104.47. However, the excursion rate at downstream station 3-RPP098.81 (4 of 64 samples - 6.3%) was based on data collected during years 2011 through 2016 and resulted in a supporting assessment for the recreation use. It has been determined that this segment should be delisted for E. coli based on an acceptable exceedance rate at downstream station 3-RPP098.81, located within the same VAHUC6 as this segment.</p>			
VAN-E20R_MAP02B12	Massaponax Creek	5.19 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - pH - E20R-03-PH, 60115 (CFL 2006)			
<p>During the 2012 through 2016 cycles, this segment was assessed as not supporting the aquatic life use because of excursions less than the lower limit of the pH criterion range (3 of 27 samples - 11.1%) at Route 1 (3-MAP007.97). Additional monitoring conducted at this location found a total of 0 of 23 samples (0.0%) less than the lower limit of the pH criterion range. It has been determined that this segment should be delisted for pH based on an acceptable excursion rate.</p>			
VAN-E21R_HUH01A02	Hugh Run	2.45 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - pH - E21R-09-PH, VAN-E21R-05 (CFL 2010)			
<p>During the 2014 and 2016 cycles, this segment was assessed as not supporting the aquatic life use because of excursions less than the lower limit of the pH criterion range (2 of 2 samples - 100.0%) upstream of Route 607 (3-HUH001.19). The pH excursions may have been attributable to natural conditions as this segment is in a low-lying coastal plain environment that is subject to low pH. Additional monitoring conducted at Route 607 (3-HUH000.87) found a total of 0 of 2 samples (0.0%) less than the lower limit of the pH criterion range. It has been determined that this segment should be delisted for pH based on an acceptable excursion rate.</p>			
VAN-E21R_MIC01A08	Mill Creek	4.58 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - pH - E21R-07-PH, VAN-E21R-04 (CFL 2008)			
<p>During the 2012, 2014, and 2016 cycles, this segment was assessed as not supporting the aquatic life use because of excursions less than the lower limit of the pH criterion range (3 of 20 samples - 15.0%) at Route 17 (3-MIC001.66). Additional monitoring conducted at this location found a total of 1 of 11 samples (9.1%) less than the lower limit of the pH criterion range. It has been determined that this segment should be delisted for pH based on an acceptable excursion rate.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Rappahannock River Basin</i>			
VAP-E22R_PEE01A08	Peedee Creek	3.29 Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018 - E22R-06-BAC (CFL 2008)</p> <p>During the 2008 cycle, Peedee Creek was assessed as not supporting of the Recreation Use due to E. coli exceedances at the Route 640 bridge (3-PEE004.46).</p> <p>During the 2016 cycle, the exceedance rate at station 3-PEE004.46 remained impairing (4/36); however, monitoring at stations 3-PEE004.11, 3-PEEE004.96, and 3-PEE006.57 is acceptable.</p> <p>In the 2018 cycle, the exceedance rate at 3-PEE004.46 fell to 3/36; therefore, the stream will be delisted.</p>			
VAP-E23R_CRC01A06	Church Swamp	3.24 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - pH - E23R-09-PH / 10100 / VAP-E23R-09 (CFL 2006)</p> <p>During the 2006 cycle, Church Swamp was assessed as not supporting the Aquatic Life Use based on a pH exceedance rate of 2/2 at 3-CRC001.38.</p> <p>A Natural Conditions Assessment for low pH in Hoskins Creek was completed during the 2012 cycle. The report attributes the exceedances to natural swampwater conditions in the watershed and recommends that all nontidal waters within the watershed be reclassified as Class VII swampwater. Church Swamp was assessed as Category 4C for pH until the WQS could be revised.</p> <p>The Hoskins Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional data has been collected, a review of the data shows that Church Swamp would have met the applicable Class VII pH criteria of 3.7-8.0 SU and will be delisted.</p>			

Waters Identified for Delisting Since 2016 Report

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Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Rappahannock River Basin

VAP-E23R_HOK01A04 Hoskins Creek 13.16 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - pH - E23R-04-PH / 01043 / VAP-E23R-04 (CFL 2004)

Hoskins Creek was initially assessed as not supporting of the Aquatic Life use support goal in 2004 based on pH standard exceedances at 3-HOK011.45 and 3-HOK007.25, located at the Route 717 and Route 718 bridges, respectively. During the 2016 cycle, the segment remained impaired with pH exceedance rates of the following:

11/25 at 3-HOK011.45
7/16 at 3-HOK007.25 (2014)
12/12 at 3-HOK013.94 (2010)
12/12 at 3-HOK014.48 (2010)

A Natural Conditions Assessment for low pH in Hoskins Creek was completed during the 2012 cycle. The report attributes the exceedances to natural swampwater conditions in the watershed and recommends that all nontidal waters within the watershed be reclassified as Class VII swampwater. Hoskins Creek was assessed as Category 4C for pH until the WQS could be revised.

The Hoskins Creek nontidal watershed was reclassified as Class VII swampwaters in the 2018 cycle. Hoskins Creek meets the Class VII pH criteria (0/12 at 3-HOK007.25 and 0/36 at 3-HOK0114.45) and will be delisted.

PARTIAL DELIST 2018 - Dissolved Oxygen - E23R-04-DO (CFL 2014)

Hoskins Creek was assessed as impaired of the Aquatic Life Use during the 2014 cycle due to a dissolved oxygen exceedance rate of 4/16 at 3-HOK007.25. Monitoring at the other stations was acceptable.

The Hoskins Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

VAP-E23R_XGX01A08 XGX - Hoskins Creek, UT 2.49 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - pH - E23R-17-PH (CFL 2008)

During the 2008 cycle, unnamed tributary XGX was assessed as not supporting of the Aquatic Life Use due to pH exceedances at 3-XGX000.04. During the 2010 cycle, the violation rate was 11/12.

A Natural Conditions Assessment for low pH in Hoskins Creek was completed during the 2012 cycle. The report attributes the exceedances to natural swampwater conditions in the watershed and recommends that all nontidal waters within the watershed be reclassified as Class VII swampwater. The tributary was assessed as Category 4C for pH until the WQS could be revised.

The Hoskins Creek nontidal watershed was reclassified as Class VII swampwaters in the 2018 cycle. Although additional monitoring has not been conducted, a review of the 2010 data for XGX indicates that the tributary would have met the Class VII pH criteria of 3.7-8.0 SU; therefore, it will be delisted.

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<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Rappahannock River Basin</i>			
VAP-E23R_XGY01A08	XGY - Hoskins Creek, UT	2.03 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - pH - E23R-18-PH (CFL 2008)</p> <p>During the 2008 cycle, unnamed tributary XGY was assessed as not supporting of the Aquatic Life Use due to pH exceedances at 3-XGY000.23. During the 2010 cycle, the exceedance rate was 8/12.</p> <p>A Natural Conditions Assessment for low pH in Hoskins Creek was completed during the 2012 cycle. The report attributes the exceedances to natural swampwater conditions in the watershed and recommends that all nontidal waters within the watershed be reclassified as Class VII swampwater. The tributary was assessed as Category 4C for pH until the WQS could be revised.</p> <p>The Hoskins Creek nontidal watershed was reclassified as Class VII swampwaters in the 2018 cycle. Although additional monitoring has not been conducted, a review of the 2010 data for XGY indicates that the tributary would have met the Class VII pH criteria of 3.7-8.0 SU; therefore, it will be delisted.</p>			
VAP-E25E_HRY01A06	Harry George Creek	0.0952 Square Miles	Shellfishing
<p>Delisting Summary: PARTIAL DELIST 2018 - Fecal Coliform - E25E-04-SF (CFL 2016)</p> <p>Harry George Creek was impaired of the Shellfish Consumption Use in the 2016 cycle due to VDH-DSS Condemnation 027-202B, 9/11/2013. The impairment was considered nested in the neighboring Weeks Creek shellfish TMDL, which was approved by the EPA on 11/15/2005 and by the SWCB on 9/27/2006.</p> <p>It is open for harvest in the 2018 cycle and will be delisted (condemnation 027-202, 1/27/2015).</p>			
VAP-E25E_LGG01B18	Lagrange Creek	0.0349 Square Miles	Shellfishing
<p>Delisting Summary: PARTIAL DELIST 2018 - Fecal Coliform 0.0349 mi2 - E25E-01-SF / 00196 / VAP-E25E-01 / Fed ID 25356 (CFL 1998)</p> <p>A 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 portion was approved by the EPA on 11/15/2005. The segment is classified as Cat. 4A.</p> <p>The condemnation has expanded and contracted several times. The condemnation expanded during the 2016 cycle and became larger than the TMDL area. The expansion was nested in the upstream TMDL and was addressed in fact sheet E25E-06-SF.</p> <p>The condemnation shrank in the 2018 cycle and is now smaller than the 1998 impairment (VDH-DSS Condemnation 028-127A, 1/28/2016). The expansion was delisted. The condemned area is Category 4A. The now-open area which was addressed in the TMDL will be partially delisted (Category 2C.)</p>			

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*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Rappahannock River Basin

VAP-E25E_LGG02A06 Lagrange Creek 0.0481 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - E25E-06-SF (CFL 2016)

Portion of VDH Shellfish Condemnation 028-127A, 1/24/2014 - open in 028-127, 1/28/2016

A 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 portion was approved by the EPA on 11/15/2005. The segment is classified as Cat. 4A.

The condemnation has expanded and contracted several times. The condemnation expanded during the 2016 cycle and became larger than the TMDL area. The expansion was nested in the upstream TMDL.

The condemnation shrank in the 2018 cycle and the expansion will be delisted.

VAP-E26E_EWE01A00 Ewells Prong 0.0356 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - E26E-06-SF / 01080 / VAP-E26E-06 / Fed ID 35562 (CFL 1998)

Ewells Prong was included on the 1998 303(d) list due to VDH condemnation 87A, 4/28/1997. The condemnation subsequently expanded (see 2014 fact sheet E26E-50-SF). The TMDL for the original portion was approved by the EPA on 1/23/2008 and by the SWCB on 7/31/2008.

Condemnation 021-187B was considerably smaller in the 2016 cycle (10/28/2014) and was 0.0018 mi² smaller than the TMDL study area; the open area was partially delisted (Category 2C).

In the 2018 cycle, the entire condemnation was lifted (021-187, 11/16/16) and the impairment will be delisted.

VAP-E26E_LOL03A08 Roane Cove of Locklies
Creek 0.0341 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - E26E-39-SF (CFL 2014)

Roane Cove was impaired in the 2014 cycle due to VDH Shellfish Condemnation 031-102C, 9/4/2014.

The Roane Cove shellfish impairment was nested in the Locklies and Mill Creeks Shellfish TMDL, which was approved by the EPA on 8/2/2006 and by the SWCB on 6/27/2007.

In the 2018 cycle, the area converted to seasonally condemned (portion of 031-102, 8/16/2016); therefore, it will be delisted.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Rappahannock River Basin</i>			
VAP-E26E_MOS01A00	Mosquito Creek	0.023 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018 - Fecal Coliform - E26E-20-SF / Fed ID 35958 (CFL 2016)			
VDH-DSS Condemnation 018-203M1, 12/4/2015			
Mosquito Creek was included on the 1998 303(d) list due to VDH Condemnation 203, 11/22/1996. The Mosquito Creek Shellfish TMDL was approved by the EPA on 4/15/2009 and by the SWCB on 7/27/2009.			
The condemnation was rescinded during the 2012 cycle and impairment was delisted.			
A portion was relisted in the 2016 cycle (018-203A, 10/28/2014). It was considered Category 4A.			
It converted to seasonally condemned in the 2018 cycle and will be delisted.			

NOTE: Partial delists indicate at least one other pollutant exists on the Assessment Unit (AU). If "PARTIAL" is not specified in the delist statement, the AU is supporting all assessed Uses.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Roanoke and Yadkin River Basins</i>			
VAW-L11R_XML01A06	North Fork Gills Creek, UT (XML)	1.43 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - BEN - VAW-L10R-01/L11R-01-BEN (2008) The waters are delisted based on data collections at station 4AGNF002.84 (Bellwood Lane Bridge). Station 4AGNF002.84 was sampled to validate biological community assessments at the upstream Probabilistic Monitoring station (4AXML000.56 North Fork Gills Creek, UT) surveyed in 2003. VSCI surveys show full support of Aquatic Life Use with an average score of 68.4 (from four VSCI surveys 2015-2016) which is above the impairment threshold of VSCI 60.			
VAW-L21R_BOE02A08	Bore Auger Creek	3.83 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - BEN - L21R-02-BEN / VAW-L22R-01 (2014) The waters are delisted for Aquatic Life Use based on Virginia Stream Condition (VSCI) surveys collected at station 4ABOE004.86 (Saunders Rd./Rt. 616 Bridge, Bedford Co.) which represents Probabilistic Monitoring station 4ABOE005.27 for present and future monitoring. 4ABOE004.86 VSCI scores collected in 2015 and 2016 average 67.8. Spring 2015 and 2016 VSCI scores are 66.3 and 76.2, respectively; Fall 2015 and 2016 scores are 60.6 and 68.1, respectively. The VSCI surveys collected during the 2018 data window show full support of the Aquatic Life Use.			
VAW-L34R_ENT01A08	Entry Creek	4.73 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - pH - VAC-L34R-01/ L34R-04-PH (2008) These waters are delisted based on data collected at station 4AENT001.64 (Little Entry Cr. at Rt. 601). Station 4AENT001.64 2018 IR pH data find no exceedances of the pH range 6.0-9.0 SU from thirteen observations. The 2018 IR reports a pH exceedance rate less than 10.5% indicating full support of the Aquatic Life Use.			
VAW-L51R_SRE06A00	Smith River	2.55 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - TEMP - VAW-L50R-01/L51R-03-TEMP (2016) 4ASRE063.69 (Upstream of Shooting Creek) - This station was incorrectly listed for Temperature during the 2016 IR due to an error in the CEDS dataset. The error has been fixed and the temperature listing assigned to the station where the data was physically collected: 4ASRE069.46.			
VAW-L71R_GIB01A08	Gibson Creek	5.38 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - DO - VAW-L65R-01/L71R-07-DO (2008) The waters are delisted based on data collections at station 4AGIB000.66 (Gibson Cr. at Wolfrap Rd.). Station 4AGIB000.66 2018 IR data produce results with one excursion of the Class 3 Dissolved Oxygen criterion of 4.0 mg/L out of thirteen . The 2018 IR reports an exceedance rate less than 10.5% indicating full support of the Aquatic Life Use.			

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Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Chowan River and Dismal Swamp Basins

VAP-K01R_SMR01A06 South Meherrin River 7.1 Miles Recreation

Delisting Summary:

DELIST 2018 - E. coli - K01R-02-BAC / 50101 / VAC-K01R-01 (CFL 2006)

The South Meherrin River from Finneywood Creek to Blackstone Creek was initially impaired of the Recreation Use in the 2006 cycle due to an E. coli exceedance rate of 2/9 at 5ASMR007.48.

In the 2014 cycle, the impairment was nested in the Meherrin River and Tributaries Bacterial TMDL, which was approved by the EPA on 4/12/2010 and by the SWCB on 9/30/2010.

The exceedance rate was acceptable in the 2018 cycle (1/12) and the river will be delisted.

VAP-K02R_CHS01A08 Couches Creek 7.37 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - pH - K02R-04-PH (CFL 2014)

Couches Creek was impaired of the Aquatic Life Use due to a pH exceedance rate of 2/18 at station 5ACHS006.33.

In the 2018 cycle, the pH exceedance rate was acceptable (0/6 at 5ACHS006.33 and 0/18 at 5ACHS003.42. The stream will be delisted.

VAP-K02R_LDB01A10 Ledbetter Creek 9.08 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - K02R-05-DO (CFL 2010)

In the 2010 cycle, Ledbetter Creek was impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 2/12 at 5ALDB000.03.

The exceedance rate was acceptable in the 2018 cycle (1/12); therefore, the stream will be delisted.

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
Chowan River and Dismal Swamp Basins			
VAP-K11R_CTT01A02	Cattail Creek	5.33 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - Dissolved Oxygen - K11R-03-DO / 01321 / VAP-K11R-03 (CFL 2002)			
Cattail Creek from its headwaters to Collier Branch was assessed in 2002 as not supporting the Aquatic Life Use because of dissolved oxygen exceedances. The TMDL is due in 2014. The exceedance rate was 4/16 at both 5ACTT002.73/PL-15B and 5ACTT005.89 / PL-15A. These stations are confined animal feeding operation (CAFO) special study stations.			
Additional monitoring was conducted during the 2010 cycle. The dissolved oxygen exceedance was confirmed with an exceedance rate of 3/11 at 5ACTT002.73. The segment was also extended to the mouth due to an exceedance rate of 8/12 at 5ACTT000.46.			
A natural conditions report was developed during the 2014 cycle. The report recommended that the Cattail Creek watershed be reclassified as Class VII swampwaters; until then, the dissolved oxygen impairment was considered Category 4C.			
The Cattail Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the DO impairment has been removed.			
PARTIAL DELIST 2018 - pH - K11R-03-PH / 01319 / VAP-K11R-03 (CFL 2002)			
The segment was assessed in 2002 as not supporting the Aquatic Life Use because of a pH exceedance rate of 3/16 at the Rt. 633 bridge (5ACTT005.89/PL-15A). The station was a confined animal feeding operation (CAFO) special study station.			
A natural conditions report was developed during the 2014 cycle. The report recommends that the Cattail Creek watershed be reclassified as Class VII swampwaters. Until the WQS could be revised, the pH impairment was considered Category 4C.			
The Cattail Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Although no additional pH monitoring has been conducted, a review of the historical data collected on the stream indicates that the pH values were within the appropriate WQS limits and the stream will be delisted.			
VAP-K11R_CTT01B10	Cattail Creek	2.05 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - Dissolved Oxygen - K11R-03-DO / 01321 / VAP-K11R-03 (CFL 2002)			
Cattail Creek from its headwaters to Collier Branch was assessed in 2002 as not supporting the Aquatic Life Use because of dissolved oxygen exceedances. The TMDL is due in 2014. The exceedance rate was 4/16 at both 5ACTT002.73/PL-15B and 5ACTT005.89 / PL-15A. These stations are confined animal feeding operation (CAFO) special study stations.			
Additional monitoring was conducted during the 2010 cycle. The dissolved oxygen exceedance was confirmed with an exceedance rate of 3/11 at 5ACTT002.73. The segment was also extended to the mouth due to an exceedance rate of 8/12 at 5ACTT000.46.			
A natural conditions report was developed during the 2014 cycle. The report recommended that the Cattail Creek watershed be reclassified as Class VII swampwaters; until then, the dissolved oxygen impairment was considered Category 4C.			
The Cattail Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the DO impairment has been removed.			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Chowan River and Dismal Swamp Basins</i>			
VAP-K11R_FON03A98	Fontaine Creek (aka Fountains Creek)	7.3 Miles	Aquatic Life
<i>Delisting Summary:</i>			
PARTIAL DELIST 2018 - Dissolved Oxygen - K11R-04-DO (CFL 2012)			
During the 2012 cycle, Fontaine Creek from I-95 to Route 301 was assessed as impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 3/22 at 5AFON014.38. Continued monitoring was recommended due to the low violation rate and an acceptable violation rate at 5AFON016.90 (0/2.)			
The exceedance rate increased to 4/24 during the 2014 cycle. However, the DO impairment will be delisted in the 2018 cycle due to an acceptable exceedance rate (2/24) at 5AFON014.38.			
VAP-K15R_LZT01A10	Lazaretto Creek	3.91 Miles	Aquatic Life
<i>Delisting Summary:</i>			
PARTIAL DELIST 2018 - Dissolved Oxygen - K15R-03-DO (CFL 2010)			
During the 2010 cycle, Lazaretto Creek was impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 2/12 at 5ALZT001.39.			
The exceedance rate was acceptable in the 2018 cycle (0/12); therefore, the segment will be delisted.			
VAP-K15R_LZT01B18	Lazaretto Creek	1.06 Miles	Aquatic Life
<i>Delisting Summary:</i>			
PARTIAL DELIST 2018 - Dissolved Oxygen - K15R-03-DO (CFL 2010)			
During the 2010 cycle, Lazaretto Creek was impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 2/12 at 5ALZT001.39.			
The exceedance rate was acceptable in the 2018 cycle (0/12); therefore, the segment will be delisted.			
VAP-K16R_NTW01B04	Nottoway River	3.39 Miles	Recreation
<i>Delisting Summary:</i>			
DELIST 2018 - E. coli - K16R-04-BAC / 50106 / VAC-K16R-04 (CFL 2006)			
During the 2006 cycle, the Nottoway River from the Nottoway Reservoir dam to the confluence with Hurricane Branch was impaired of the Recreation Use due to an E. coli exceedance rate of 2/7 at 5ANTW126.94.			
The exceedance rate was acceptable in the 2018 cycle (0/12) and the segment will be delisted.			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Chowan River and Dismal Swamp Basins</i>			
VAT-K30R_NTW01A08	Nottoway River - Upper	0.45 Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018- ECOLI- K30R-02-BAC (2008)</p> <p>Recreation Use is supporting based on E.coli data collected 2 viol / 32 obs at station 5ANTW015.99.</p> <p>This segment since 2008 has fluctuated back and forth on bacteria impairment- every other cycle.</p> <p>E.coli Listed : 2008, 2012, 2016 E.coli Delisted : 2010, 2014, 2018</p> <p>E. Coli (K30R-02-BAC (2008)</p>			
VAT-K35R_XDZ02A04	UT Airfield Pond - Lower	0.71 Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018-ECOLI- K35R-04-BAC (2004)</p> <p>Recreation Use is delisted in the 2018 IR based on 2015 Ecoli data collected at station 5AXDZ000.81 with 1 viol / 11 obs. Previously the impairment was retained from 2004 Assessment based on data collected at station 5AXDZ000.81with 4 viol/ 12 obs.</p>			
VAT-K38R_CHP01A04	Chapel Swamp	8.28 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018- PH -K38R-03-PH (2004) PARTIAL DELIST 2018- DO -K38R-03-DO (2004)</p> <p>In the 2018 IR Chapel Swamp was revised to a Class VII water. Aquatic Life Use is now supporting based on pH data collected at DEQ Station 5AHP002.03. pH in a Class VII water is 3.8 - 8.0. There are 0 viol / 16 obs in the 2018 IR.</p> <p>The dissolved oxygen impairment is removed in 2018 since Chapel Swamp is a Class VII and there is no current water quality standard for DO in Class VII waters. Previously listed as impaired based on Class III water DO criteria. Impairment is suspected due to natural swamp conditions present in these waters.</p> <p>Chapel Swamp is a tributary to Somerton Creek : 9VAC25-260-470: Chowan and Dismal Swamp Class VII Section 4 : Somerton Creek and its tributaries from the Virginia-North Carolina state line at river mile 0.0 upstream to river mile 13.78</p>			

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chowan River and Dismal Swamp Basins

VAT-K38R_MAR01A06	March Swamp	7.71 Miles	Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - DO- K38R-02-DO (2004)
PARTIAL DELIST 2018 - PH- K38R-02-PH (2004)

Dissolved oxygen impairment is delisted in the 2018 IR based on revised assessment of March Swamp with WQS for Class VII waters to align with the appropriate section - Class VII Section 4 ; Somerton Cr and tributaries from VA/NC state line at RM 0.0 upstream to RM 13.78. Class III DO standards are no longer applicable for this water and therefore DO is delisted. DO data collected at station is not assessed since no current WQS for Class VII waters for DO. pH is delisted based on data collected assessed against Class VII water criteria. Therefore Aquatic Life Use is now supporting based on pH data collected at station 5AMAR001.65 assessed with Class VII criteria . Station has 0 viol / 15 obs for pH.

VAT-K40R_NTW03A08	Northwest River - Lower (PWS)	2.82 Miles	Recreation
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Delisting Summary:

PARTIAL DELIST 2018 - ECOLI- K40R-04-BAC (2016)

Recreation Use is delisted in the 2018 IR. Data from stations 5BNTW010.23 (3 viol / 31 obs) and 5BNTW009.49 with 2 viol/ 31 obs now support Recreation Use. Additionally, in the 2018 IR station 5BNTW011.90 is added to this segment with supporting Ecoli data 2 viol / 32 obs.

VAT-K41R_NLR03A06	North Landing River - Middle	1.38 Miles	Recreation
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Delisting Summary:

DELIST 2018- ECOLI- K41R-04-BAC (2008)

Recreation Use is delisted in the 2018 IR based on 2016 data collected that now supports the use. Station 5BNLR010.75 has 0 viol / 6 obs. In the 2016 cycle there was no current data. Therefore the recreation use impairment was retained based on E.coli data collected at station 5BNLR010.75 (2 viol/10 obs) from the 2008 Assessment.

A Total Maximum Daily Load has been Developed for the Back Bay, North Landing River, and Pocaty River Watersheds for E. coli and Enterococci due to Recreation Use Impairments and Total Phosphorus Due to Low Dissolved Oxygen in Aquatic Life Use impairments. EPA approved 12/11/2014.

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Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Tennessee and Big Sandy River Basins</i>			
VAS-O11L_LAU01A02	Laurel Bed Lake	359.43 Acres	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - PH - O11L-02-PH (2006) 7% (11/149) pH measurements exceed WQS.</p> <p>27% of temperature measurements exceed WQS for Class V waters. Aquatic Life Use is impaired. Temperature is probably a natural impairment. A Use attainability analysis is recommended.</p>			
VAS-P02R_IDI01A00	Indian Creek	9.07 Miles	Recreation
<p>Delisting Summary:</p> <p>DELIST 2018 - E.coli - P02R-02-BAC (2008) WQS for E. Coli was exceeded at 6BIDI001.49 in 9% of samples.</p>			
VAS-P02R_IDI02A04	North Branch Indian Creek	4.61 Miles	Recreation
<p>Delisting Summary:</p> <p>DELIST 2018 - E.coli - P02R-02-BAC (2008) WQS for E. Coli was exceeded at 6BIDI001.49 in 9% of samples.</p>			
VAS-P06R_BCD01A98	Big Cedar Creek	4.2 Miles	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - benthic macroinvertebrates - P06R-01-BEN (2006) Aquatic Life Use was supported; data included temp, pH, DO at 6BBCD001.89, 6BBCD001.84, and benthic monitoring at 6BBCD002.01, indicated impairment. VSCI: VSCI: 11/14/2016 72.87 04/20/2016 60.46</p>			
VAS-P08R_DUM01A94	Dumps Creek	3.54 Miles	Recreation
<p>Delisting Summary:</p> <p>DELIST 2018 - E.coli - P08R-01-BAC (2006) Recreation Use was supported; WQS for E. Coli was exceeded at 6BDUM000.04 by 8%.</p>			
VAS-P09R_BUL01A06	Bull Run	3.99 Miles	Recreation
<p>Delisting Summary:</p> <p>DELIST 2018 - E.coli - P09R-06-BAC (2012) Recreation Use was supported; WQS for E. Coli was exceeded at 6BBUL000.06 by 8%.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
Tennessee and Big Sandy River Basins			
VAS-P23R_POW02A00	Powell River	8.47 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - Benthic Macroinvertebrates - P23R-01-BEN (2002)</p> <p>Aquatic Life Use was supported by benthic macroinvertebrate data collected at 6BPOW120.12. VSCI scores indicate support of Aquatic Life Use. Additional data collection included temp, pH, DO. VSCI @ 6BPOW120.12: 04/04/2016 72.42 11/09/2016 78.71</p>			
VAS-Q09R_IND01A10	Indian Creek	2.69 Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018 - E.coli - Q09R-01-BAC (2010) Recreation Use was not impaired; At 6AIND000.52 no samples exceeded the WQS for E.coli.</p>			
VAS-Q09R_SLV01A08	Sullivan Branch	1.62 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Benthic Macroinvertebrates - Q09R-02-BEN (2008)</p> <p>Aquatic Life Use was not impaired; 6ASLV000.85 VSCI: 08/22/2016 65.96 04/11/2016 71.80</p>			
VAS-Q10R_RSS02A00	Russell Fork	4.12 Miles	Recreation
<p>Delisting Summary: DELIST 2018 - E.coli - Q09R-01-BAC (2016) AWQM station at 6ARSS026.98; no impairments were detected; this is same location as 6ARSS-RT722-MRRP. At 6ARSS-BRTLY-MRRP, Level III bacteria detected no WQS exceedence.</p>			
VAS-Q13R_BEP01A16	Bearpen Branch	3.3 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - Benthic Macroinvertebrates - Q13R-07-BEN (2010) VSCI at 6ABEP000.08: 03/08/2016 61.78 11/22/2016 77.89</p>			

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Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAP-C01E_BAI01A16	Bailey Prong	0.0517 Square Miles	Shellfishing
<p>Delisting Summary: PARTIAL DELIST 2018 - Fecal Coliform - C01E-25-SF (CFL 2016)</p> <p>Bailey Prong was listed in the 2016 cycle due to VDH Shellfish Condemnation 013-220H, 4/1/2014. The impairment was nested within the nearby Whays Creek Shellfish TMDL. The TMDL was developed as part of the Great Wicomico River Watershed TMDL report and was approved by the EPA on 6/8/2006.</p> <p>The area was open for harvest in the 2018 cycle (013-220, 4/28/2016) and will be delisted.</p>			
VAP-C01E_GOU01A06	Gougher Creek	0.0362 Square Miles	Shellfishing
<p>Delisting Summary: PARTIAL DELIST 2018 - Fecal Coliform - C01E-18-SF (CFL 2016)</p> <p>Gougher Creek was listed in the 2016 cycle due to VDH Shellfish Condemnation 013-220G, 4/1/2014. The impairment was nested within the nearby Warehouse Creek Shellfish TMDL. The TMDL was developed as part of the Great Wicomico River Watershed TMDL report and was approved by the EPA on 6/8/2006.</p> <p>The area was open for harvest in the 2018 cycle (013-220, 4/28/2016) and will be delisted.</p>			
VAP-C01E_JAR01A02	Jarvis Creek, UT	0.0263 Square Miles	Shellfishing
<p>Delisting Summary: PARTIAL DELIST 2018 - Fecal Coliform - C01E-31-SF (CFL 2010)</p> <p>VDH-DSS Condemnation 015-022F, 5/5/2014 - open</p> <p>Jarvis Creek was impaired due to a VDH-DSS condemnation. The impairment was nested within the nearby Prentice Creek Shellfish TMDL, which was approved by the EPA on 6/8/2006.</p> <p>In the 2018 cycle, VDH-DSS Condemnation 015-022F, 5/5/2014 was open for harvest (015-022, 5/9/2016) and the creek will be delisted.</p>			
VAP-C01E_LEE01A02	Lees Cove	0.0154 Square Miles	Shellfishing
<p>Delisting Summary: PARTIAL DELIST 2018 - Fecal Coliform - C01E-20-SF / 00964 / VAP-C01E-20 / Fed ID 35954 (CFL 2002)</p> <p>Portion of VDH-DSS Shellfish Condemnation 016-0B, 12/16/2014 - open 12/30/2015</p> <p>The TMDL for this portion of Lees Cove was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009. The segment is considered a Category 4A water.</p> <p>During the 2012 cycle, the condemnation expanded. The expansion is addressed in C01E-60-SF.</p> <p>It completely opened in the 2018 cycle and both segments will be delisted.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAP-C01E_LEE02A12	Lees Cove	0.0104 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018 - Fecal Coliform - C01E-60-SF (CFL 2012)			
Portion of VDH-DSS Shellfish Condemnation 016-024B, 12/16/2014 - open 12/30/2015			
The TMDL for the upstream portion Lees Cove was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.			
During the 2012 cycle, the condemnation expanded. The TMDL for this expanded portion was due in 2024. The impairment was nested within the upstream TMDL and was considered Category 4A.			
The condemnation was rescinded in the 2018 cycle and both segments will be delisted.			
VAP-C01E_TBS01A14	Tabbs Creek, UT	0.0161 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018 - Fecal Coliform 0.0161 mi2 - C01E-27-SF / 00971 / VAP-C01E-27 / Fed ID 35982 (CFL 1998)			
A portion of Tabbs Creek was impaired of the Shellfish Consumption Use during the 1998 cycle due to VDH-DSS Shellfish Condemnation Notice 133, 3/5/1997.			
During the 2010 cycle, the TMDL was developed for the maximum extent (016-133A, 12/13/2006.). It was approved by the EPA on 4/8/2009 and by the SWCB on 7/27/2009.			
The condemned area shrunk in the 2010 cycle (016-133A, 12/28/2007) and again in the 2012 cycle (016-133A, 12/23/2009). The condemned area was considered Category 4A; the downstream open area was partially delisted (Category 2C.)			
In the 2016 cycle, the condemnations expanded and merged.			
It shrank considerably in the 2018 cycle. The cove is no longer condemned and will be partially delisted.			
VAP-C01E_TOW01A06	Towles Creek	0.0273 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018 - Fecal Coliform - C01E-23-SF (CFL 2014)			
VDH-DSS condemnation 014-123M1, 5/9/2016			
Towles Creek was initially condemned during the 2014 cycle. In the 2016 cycle, it was impaired due to VDH-DSS condemnation 014-123D, 4/24/2014. It was considered nested within the nearby Mill Creek Shellfish TMDL, which was approved by the EPA on 8/22/2007.			
The creek changed to seasonally condemned in the 2018 cycle and will be delisted.			

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C02R_BRE01A04 Briery Swamp 3.17 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - Dissolved Oxygen - C02R-07-DO (CFL 2010)

During the 2010 cycle, Timber Branch Swamp was assessed as impaired of the Aquatic Life Use due to dissolved oxygen exceedances at 7-TIM002.21, which is located at the Route 610 bridge.

A Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of Timber Branch Swamp be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.

The Dragon Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAP-C02R_DGN01A06	Dragon Run	6.53 Miles	Aquatic Life
<p>Delisting Summary:</p> <p>DELIST 2018 - Dissolved Oxygen - C02R-05-DO (CFL 2008)</p> <p>During the 2008 cycle, Dragon Run was assessed as impaired of the Aquatic Life Use due to dissolved oxygen exceedances at both the Route 607 and Route 612 bridges (7-DGN000.85 and 7-DGN003.76, respectively).</p> <p>The Natural Condition Report for the Dragon Swamp Watershed was completed during the 2010 cycle. The report recommends that Dragon Run and its tributaries from its perennial headwaters to its mouth be reclassified as Class VII swampwaters; therefore, the segment was considered Category 4C. The segment length was revised due to the report.</p> <p>During the 2012 cycle, the violation rates were as follows: 12/32 at 7-DGN000.85 11/20 at 7-DGN003.76 0/3 at 7-DGN004.80 0/2 at 7-DGN004.99 0/2 at 7-DGN005.03</p> <p>The Dragon Run watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p> <p>DELIST 2018 - pH - C02R-05-PH (CFL 2010)</p> <p>During the 2010 cycle, Dragon Run was assessed as impaired of the Aquatic Life Use due to pH exceedances at both the Route 607 and Route 612 bridges (7-DGN000.85 and 7-DGN003.76, respectively).</p> <p>The Natural Condition Report for the Dragon Swamp Watershed was completed during the 2010 cycle. The report recommends that Dragon Run and its tributaries from its perennial headwaters to its mouth be reclassified as Class VII swampwaters; therefore, the segment was considered Category 4C.</p> <p>During the 2012 cycle, the violation rates were as follows: 5/32 at 7-DGN000.85 4/20 at 7-DGN003.76 1/3 at 7-DGN004.80 2/2 at 7-DGN004.99 2/2 at 7-DGN005.03</p> <p>The Dragon Run watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional pH data has been collected, a review of the previous data shows that the pH is within the appropriate boundary for Class VII waters and the stream will be delisted.</p>			

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C02R_DRN01A98	Dragon Swamp	12.37 Miles	Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - C02R-01-DO (CFL 2010)

During the 2010 cycle, the segment was assessed as impaired of the Aquatic Life Use based on dissolved oxygen violations at 7-DRN010.48 (Route 603 bridge).

The Natural Condition Report for the Dragon Swamp Watershed was completed in the 2010 cycle. The report recommends that Dragon Swamp and its tributaries from its perennial headwaters to the head of tide be reclassified as Class VII swampwaters; therefore the segment was considered Category 4C.

The Dragon Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAP-C02R_DRN02A04	Dragon Swamp	19.26 Miles	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - pH - C02R-02-PH / 00983 / VAP-C02R-02 (CFL 2004)</p> <p>Dragon Swamp was assessed as impaired of the Aquatic Life Use in 2004 due to exceedances of the pH standard at the Route 604 bridge (7-DRN015.51).</p> <p>During the 2010 cycle, the Natural Condition Report for the Dragon Swamp Watershed was completed. The report recommends that Dragon Swamp from its perennial headwaters to the tidal limit be reclassified as Class VII swampwaters. The segment length was adjusted slightly to remove the intermittent headwaters. Dragon Swamp is considered Category 4C until the WQS could be modified.</p> <p>The exceedances continued for the 2012 cycle, in which the exceedance rates were as follows: 4/37 at 7-DRN015.51 1/2 at 7-DRN021.13 5/32 at 7-DRN024.19 4/20 at 7-DRN030.75 3/8 at 7-DRN032.57</p> <p>The Dragon Run watershed was reclassified as Class VII swampwaters during the 2018 cycle. The pH exceedance rate was 0/12 at 7-DRN024.19 and the stream will be delisted.</p> <p>PARTIAL DELIST 2018 - Dissolved Oxygen - C02R-02-DO / 00982 / VAP-C02R-02 (CFL 2004)</p> <p>Dragon Swamp was assessed impaired of the Aquatic Life Use in 2004 due to exceedances of the dissolved oxygen standard at the Route 604 bridge (7-DRN015.51).</p> <p>During the 2010 cycle, the Natural Condition Report for the Dragon Swamp Watershed was completed. The report recommends that Dragon Swamp from its perennial headwaters to the tidal limit be reclassified as Class VII swampwaters. The segment length was adjusted slightly to remove the intermittent headwaters. Dragon Swamp was considered Category 4C until the WQS could be modified.</p> <p>The DO exceedances continued for the 2012 cycle, in which the exceedance rates were as follows: 12/35 at 7-DRN015.51 0/2 at 7-DRN021.13 14/31 at 7-DRN024.19 9/20 at 7-DRN030.75 1/8 at 7-DRN032.57</p> <p>The Dragon Run watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p>			

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAP-C02R_EXE01A06	Exol Swamp	11.34 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - Dissolved Oxygen - C02R-04-DO / 15017 / VAP-C02R-04 (CFL 2006)			
In 2006, Exol Swamp was assessed as not supporting for Aquatic Life Use based on exceedances of the water quality standards for dissolved oxygen at the Rt. 614 bridge (station 7-EXE000.81). During the 2010 cycle, the exceedance rate was 8/28 at 7-EXE000.81 and 6/13 at station 7-EXE008.44.			
During the 2010 cycle, the Natural Condition Report for Dragon Swamp Watershed was completed. The report recommends that Exol Swamp from its perennial headwaters to its mouth be reclassified as Class VII swampwater. The segment length was revised to match the report. Exol Swamp was considered a Category 4C water.			
Additional monitoring was conducted during the 2016 cycle at 7-EXE000.81. The dissolved oxygen exceedance was 5/12.			
The Exol Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.			
VAP-C02R_HLM01A10	Holmes Swamp	4.02 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - pH - C02R-08-PH (CFL 2010)			
During the 2010 cycle, Holmes Swamp was assessed as impaired of the Aquatic Life Use due to a pH exceedance rate of 2/12 at 7-HLM000.81, which is located at the Route 610 bridge.			
A Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of Holmes Swamp be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.			
The Exol Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional pH data has been collected, a review of the previous data shows that the pH is within the appropriate boundary for Class VII waters and the stream will be delisted.			
DELIST 2018 - Dissolved Oxygen - C02R-08-DO (CFL 2010)			
During the 2010 cycle, Holmes Swamp was assessed as impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 2/12 at 7-HLM000.81, which is located at the Route 610 bridge.			
A Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of Holmes Swamp be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.			
The Exol Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.			

Waters Identified for Delisting Since 2016 Report

Assessment

<i>Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Chesapeake Bay/Atlantic/Small Coastal Basins</i>			
VAP-C02R_TIM01A06	Timber Branch Swamp	5.45 Miles	Aquatic Life

Delisting Summary:

DELIST 2018 - pH - C02R-07-PH (CFL 2010)

During the 2010 cycle, Timber Branch Swamp was assessed as impaired of the Aquatic Life Use due to pH exceedances at 7-TIM002.21, which is located at the Route 610 bridge.

A Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of Timber Branch Swamp be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.

The Dragon Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional pH data has been collected, a review of the previous data shows that the pH is within the appropriate boundary for Class VII waters and the stream will be delisted.

DELIST 2018 - Dissolved Oxygen - C02R-07-DO (CFL 2010)

During the 2010 cycle, Timber Branch Swamp was assessed as impaired of the Aquatic Life Use due to dissolved oxygen exceedances at 7-TIM002.21, which is located at the Route 610 bridge.

A Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of Timber Branch Swamp be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.

The Dragon Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C02R_WHE01A10 White Marsh 2.51 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - pH - C02R-09-PH (CFL 2010)

During the 2010 cycle, White Marsh was assessed as impaired of the Aquatic Life Use due to a pH exceedance rate of 6/12 at 7-WHE000.96, which is located at the Route 684 bridge.

However, a Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of White Marsh be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.

The Dragon Run watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional pH data has been collected, a review of the previous data shows that the pH is within the appropriate boundary for Class VII waters and the stream will be delisted.

DELIST 2018 - Dissolved Oxygen - C02R-09-DO (CFL 2010)

During the 2010 cycle, White Marsh was assessed as impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 6/12 at 7-WHE000.96, which is located at the Route 684 bridge. However, a Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of White Marsh be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.

The Dragon Run watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

VAP-C02R_YOR01A10 Yorkers Swamp 3.32 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - pH - C02R-10-PH (CFL 2010)

During the 2010 cycle, Yorkers Swamp was assessed as impaired of the Aquatic Life Use due to a pH violation rate of 4/12 at 7-YOR001.42, which is located at the Route 719 bridge. However, a Natural Conditions Assessment was completed for the Dragon Run watershed in 2008. This report recommends that the perennial portion of Yorkers Swamp be reclassified as Class VII swampwater; therefore, the segment was considered Category 4C.

The Dragon Swamp watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional pH data has been collected, a review of the previous data shows that the pH is within the appropriate boundary for Class VII waters and the stream will be delisted.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C04E_BLL01A98 Billups Creek 0.0285 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - C04E-07-SF / 00995 / VAP-C04E-07 / Fed ID 35556 (CFL 1998)

VDH Shellfish Condemnation 037-061B, 1/31/2014 - open 2/16/2016

A portion of Billups Creek was included on the 1998 303(d) list for the Shellfish Consumption Use due to VDH-DSS condemnation 204, 4/4/1997. The Shellfish TMDL, which was approved by the EPA on 1/15/2008 and by the SWCB on 7/31/2008 addresses the 1998 portion.

During the 2016 cycle, the condemnation shrank and was smaller than the TMDL extent. The opened area (0.0175 mi2) was partially delisted (Category 2C.)

In the 2018 cycle, the condemnation was rescinded and the impairment will be entirely delisted.

VAP-C04E_BOR01A18 Borum Creek 0.0275 Square Miles Open-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0276 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_DOC01A98 Doctors Creek 0.0096 Square Miles Aquatic Life Open-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0096 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C04E_DOC01B14	Doctors Creek	0.005 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0050 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_DYE01A08	Dyer Creek	0.0145 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.1456 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_DYE02A04	Dyer Creek	0.2719 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0146 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C04E_GDN01A06 Garden Creek 0.3729 Square Miles Aquatic Life Open-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.3729 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_GRE01A08 Greenmansion Cove 0.0266 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - C04E-11-SF / Fed ID 25348 (CFL 2014)

VDH-DSS Shellfish Condemnation 042-131E, 6/30/2016 is now a portion of 042-131M1, 6/30/2016

During the 1998 cycle, Greenmansion Cove was listed as impaired due to VDH Shellfish Condemnation 131B, 6/3/1997. It was addressed in the North River Bacteria TMDL, which was approved by the EPA on 6/7/2006.

The creek was delisted during the 2010 and 2012 cycles because the condemnation converted to seasonally condemned (Cat 2B/2C). A portion was relisted in the 2014 cycle (Category 4A). It converted to seasonally condemned again in 2018 and will be delisted.

VAP-C04E_HAH01A98 Horn Harbor 0.1456 Square Miles Aquatic Life Open-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.1457 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C04E_HAH02A02	Horn Harbor	1.4743 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 1.4743 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_HAH02B12	Horn Harbor, UT	0.0044 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0044 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_HAH02C12	Horn Harbor	0.0537 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0537 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C04E_HAH02D18	Horn Harbor, UT	0.0049 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0050 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_HAH03A06	Horn Harbor	0.0353 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0353 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_HAH04A06	Horn Harbor, UT (Jacks Creek)	0.0158 Square Miles	Aquatic Life	Open-Water Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0158 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C04E_LAN01A02 Lanes Creek 0.0196 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - C04E-52-SF (CFL 2012)

VDH-DSS Condemnation 037-099E, 1/31/2014 - open 12/16/2016

Lanes Creek was nested within the nearby Edwards Creek Shellfish TMDL, which was addressed in the Gwynn's Island and Milford Haven Watersheds report. The TMDL was approved by the EPA on 1/15/2008. The condemnation was rescinded in the 2018 cycle and Lanes Creek will be delisted.

VAP-C04E_NOR01B08 North River 0.1354 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - C04E-08-SF2 (CFL 2002)

The upstream portion of the North River was included on the 1998 303(d) list due to VDH Shellfish Condemnation 157A, 6/3/1997. The condemnation subsequently expanded, however the only the original impaired segment was addressed during the bacteria TMDL. The TMDL for the expanded area was due in 2014 since it first expanded in the 2002 cycle.

It was considered nested within the upstream North River Shellfish TMDL, which was approved by the EPA on 6/7/2006.

In the 2018 cycle, the condemnation shrank considerably and is now smaller than the TMDL area (VDH-DSS SFC Number 042-157A, 5/27/2015). The expansion will be delisted.

VAP-C04E_NOR01C18 North River 0.0666 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform 0.0667 mi2 - C04E-08-SF / 01018 / VAP-C04E-08 / Fed IDs 25401 and 38186 (CFL 1998)

The upstream portion of the North River was included on the 1998 303(d) list due to VDH Shellfish Condemnation 157A, 6/3/1997. The condemnation subsequently expanded, however the DEQ only addressed the original impaired segment during the Bacteria TMDL which was approved by the EPA on 6/7/2006. The original portion will be considered Category 4A. The expanded area was addressed in fact sheet C04E-08-SF2.

In the 2018 cycle, the condemnation shrank considerably and is now smaller than the TMDL area (VDH-DSS SFC Number 042-157A, 5/27/2015). The expansion will be delisted. The now-opened portion of the TMDL area will be partially delisted (Category 2C.)

VAP-C04E_OAK01A08 Oakland Creek 0.0301 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - C04E-24-SF (CFL 2016)

VDH-DSS condemnation 042-131B, 6/12/2014 - open 6/30/2016

Oakland Creek was nested within the upstream Blackwater Creek Shellfish TMDL, which was addressed in the North River TMDL report and approved by the EPA on 6/7/2006. The area opened for harvest in the 2018 cycle and will be delisted.

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAP-C04E_QUE02A12 Queens Creek, UT 0.0185 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018 - Fecal Coliform - C04E-01-SF2 / 01015 / VAP-C04E-01 (CFL 2002)

VDH-DSS condemnation 037-099C, 1/31/2014 - open on 2/16/2016

A portion of Queens Creek was assessed as impaired of the Shellfish Use during the 1998 cycle due to condemnation 99A, 4/9/1997. During several assessment cycles the condemned area has expanded and contracted. Condemnation 037-099C, 1/31/2014 on Queens Creek, UT was impaired and was located outside of the TMDL study area. The TMDL was due in 2014 since the condemnation first expanded in the 2002 cycle.

The impairment was nested within the Queens Creek Shellfish TMDL, which was approved by the EPA on 1/15/2008.

The condemnation was rescinded in the 2018 cycle and will be delisted.

VAP-C04E_WIN01A06 Winter Harbor, UT 0.1082 Square Miles Aquatic Life Open-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.1082 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C04E_WIN01B00 Winter Harbor 0.183 Square Miles Aquatic Life Open-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.1830 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size		Uses Partially / Fully Restored
Chesapeake Bay/Atlantic/Small Coastal Basins				
VAP-C04E_WIN02B06	Winter Harbor	0.037 Square Miles	Aquatic Life	Open-Water Aquatic Life
Delisting Summary:				
PARTIAL DELIST 2018 - Dissolved Oxygen 0.0371 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)				
The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.				
The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.				
Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)				
VAP-C04E_WIN03A06	Winter Harbor	0.7355 Square Miles	Aquatic Life	Open-Water Aquatic Life
Delisting Summary:				
PARTIAL DELIST 2018 - Dissolved Oxygen 0.7356 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)				
The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.				
The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.				
Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)				
VAP-C04E_WIN03B18	Winter Harbor	0.4217 Square Miles	Aquatic Life	Open-Water Aquatic Life
Delisting Summary:				
PARTIAL DELIST 2018 - Dissolved Oxygen 0.4217 mi2 - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)				
The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.				
The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.				
Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)				

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size		Uses Partially / Fully Restored
Chesapeake Bay/Atlantic/Small Coastal Basins				
VAP-C04E_ZZZ02A06	Unsegmented estuaries in C04	0.0101 Square Miles	Aquatic Life	Open-Water Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen 0.0101 mi² - CB6PH-DO-BAY / 10115 / VAP-C04E-21 / Fed ID 40814, 40816, and 40818 (CFL 2006)

The Chesapeake Bay Water Quality Standards were implemented during the 2006 cycle. The polyhaline Chesapeake Bay (CB6PH) segment failed the 30-day mean Open Water summer and rest-of-year dissolved oxygen criteria. Because this segment failed as part of the Bay criteria, the TMDL was due in 2010. There is insufficient data to assess the other dissolved oxygen criteria.

The Chesapeake Bay TMDL was approved by the EPA on 12/29/2010.

Both the Open Water Subuse and Deep Water Subuse 30-day mean criteria were met in the 2018 cycle. The mainstem Bay must remain listed due to EPA's overlisting (Category 4A). However, the shallow tributaries were not overlisted and will be partially delisted (Category 2C.)

VAP-C05R_CNY01A10	Craney Creek	3.9 Miles	Aquatic Life	Recreation
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Delisting Summary:

DELIST 2018 - Dissolved Oxygen - C05R-03-DO (CFL 2010)

During the 2010 cycle, Craney Creek was assessed as not supporting of the Aquatic Life Use due to dissolved oxygen violations at 7-CNY002.21 (Route 606 bridge). In addition, the violation rate at 7-CNY000.38 (Route 619 bridge) was 1/6.

During the 2012 cycle, the exceedance rate at 7-CNY000.38 was acceptable (1/12), however 7-CNY002.21 remained impaired (4/12).

The dissolved oxygen exceedances were determined to be caused by natural conditions. "The Natural Conditions Assessment for Low Dissolved Oxygen, Fox Mill Run in Gloucester County, Virginia" was completed during the 2012 cycle. The report recommends that mainstem Fox Mill Run and Craney Creek from their headwaters to the head of tide on Fox Mill Run be reclassified as Class VII swampwaters. Until the WQS could be revised, the creeks were considered Category 4C waters.

Craney Creek was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

DELIST 2018 - E. coli - C05R-03-BAC (CFL 2010)

During the 2010 cycle, Craney Creek was assessed as not supporting of the Recreation Use due to E. coli violations at 7-CNY002.21, which is located at the Route 606 bridge. The exceedance rate is 4/12 during the 2012 cycle. The violation rate at downstream station 7-CNY000.38 is acceptable (0/12).

The impairment was considered nested (Category 4A) because it is located within the watershed study area for the Ware River Shellfish TMDL, which was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.

The exceedance rate was acceptable in the 2018 cycle (1/12); therefore, the impairment will be delisted.

Waters Identified for Delisting Since 2016 Report

Assessment

<i>Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Chesapeake Bay/Atlantic/Small Coastal Basins</i>			
VAP-C05R_FOX01A00	Fox Mill Run	6.96 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - Dissolved Oxygen - C05R-01-DO / 01020 / 1021 / VAP-C05R-01 (CFL 2002)			
In 2002, Fox Mill Run was assessed as not supporting of the Aquatic Life Use due to a dissolved oxygen violation rate of 2/19 at the Route 17 bridge (7-FOX002.49).			
Additional monitoring has been conducted. During the 2012 cycle, the segment remained impaired: 9/24 at 7-FOX002.49 1/12 (FS) at 7-FOX003.22 1/12 (FS) at 7-FOX004.68 3/12 at 7-FOX006.56			
The dissolved oxygen exceedances were determined to be caused by natural conditions. "The Natural Conditions Assessment for Low Dissolved Oxygen, Fox Mill Run in Gloucester County, Virginia" was completed on 4/5/2010. The report recommends that mainstem Fox Mill Run and Crany Creek from their headwaters to the head of tide on Fox Mill Run be reclassified as Class VII swampwaters. Until the WQS could be revised, the creeks were considered Category 4C waters.			
Fox Mill Swamp was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.			
VAP-C06E_STR01A08	Sterling Creek	0.0205 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018 - Fecal Coliform - C06E-06-SF (CFL 2016)			
VDH-DSS condemnation 044-093E, 4/2/2014 - open 6/9/2016			
Sterling Creek was nested in the neighboring Free School Creek TMDL, which was developed as part of the Severn River Watershed TMDL Report. The TMDL was approved by the EPA on 6/7/2006 and by the SWCB on 3/23/2007.			
The condemnation was rescinded in the 2018 cycle and the impairment will be delisted.			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAP-C06R_SEN01A00	Northwest Branch Severn River	2.16 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - Dissolved Oxygen - C06R-01-DO / VAP-C06R-01 (CFL 2002)			
During the 2008 cycle, station 7-SEN004.04 had a dissolved oxygen violation rate of 2/12; therefore, the segment was considered impaired of the Aquatic Life Use. The TMDL is due in 2020.			
During the 2010 cycle, it was determined that the station is actually tidally influenced. However, additional monitoring at station 7-SEN004.78 confirmed the impairment.			
The exceedance rate was 4/10 during the 2012 cycle.			
The "Natural Conditions Assessment for Low Dissolved Oxygen, Northwest Branch Severn River in Gloucester County, Virginia" was developed in October 2013. The report recommends that the nontidal mainstem of the Northwest Branch Severn River be reclassified as Class VII swampwater. Until the WQS could be changed, the segment was assessed as Category 4C.			
The stream was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.			
VAT-C07E_GLD01A10	Grunland Creek - Mouth	0.0379 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018- FECAL COLIFORM - C07E-40-SF (2012)			
The Shellfishing Use delisted in the 2018 IR. The DSS shellfish condemnation # 054-215 is now OPEN (effective 20161031).			
Grunland Greek is located within the TMDL watershed and the Growing Area is listed as the impairment in the TMDL EPA approved in 2014 modified 2/9/2018. Segment was nested in the Back River Bacteria TMDL in the 2016 IR.			
VAT-C08E_DEY01A00	Dey Cove/Mill Dam Creek- Upper	0.0749 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018- FECAL COLIFORM and 0.02 sq mi- C08E-10-SF (1998)			
Shellfish Use is impaired based on DSS condemnation # 071-095 E (effective 20160211). Partial delist is for newly opened area that is moved to segment VAT-C08E_DEY02A18.			
Previously (2006 IR) listed as TMDL-ID: VAT-C08E-10. A TMDL for Shellfishing Use has been completed and EPA approved (VAT-C08E-11) in 2004 which includes VAT-C08E-10. 1998 CD segment for shellfish (Attachment A, Category 3) VAT-C08E-10.			

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

Chesapeake Bay/Atlantic/Small Coastal Basins

VAT-C08E_LKN01B14 Linkhorn Bay - Upper 0.0399 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018- FECAL COLIFORM - C08E-17-SF (2016)

The Shellfish Use is now supported based on the VDH DSS Condemn # 071-010 effective date 20160211. In 2014, this segment was delisted for Shellfish Use. This segment was first listed as impaired for SF in 1998 as C08E-11-SF. There is an EPA approved SF TMDL for Linkhorn Bay (25407).

Previously (2006 IR) listed as TMDL-ID: VAT-C08E-11. 1998 CD segment for shellfish (Attachment A, Category 3) VAT-C08E-11.

In 2016 IR this segment size decreased due to both condemned and open area for SF associated with 0710-010 & A. The open condemnation is merged with VAT-C08E_LKN02A10. Delist in 2018 potential to merge with LKN02A10 in 2020.

VAT-C08E_LYN01C12 Lynnhaven River & Bay - DSS Cond 0.1984 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018-FECAL COLIFORM and 0.13SQ MI - C08E-13-SF (2012)

The Shellfish Use is impaired based on the DSS shellfish direct harvesting condemnation # 070-025 A & M (effective 20160218). A decrease in size is due to 0.13 sq mi converted to conditionally condemned area C1 with effective date 20160218 now moved to AU VAT-C08E_LYN01A06.

Previously (2006 IR) User Flag ID as VAT-C08E-13. A TMDL for Shellfishing Use has been completed and EPA approved (25408, VAT-C08E-07-SF) in 2004 which includes VAT-C08E-13.

VAT-C10E_DEP01A06 Deep Creek - Middle 0.0901 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018- ENTEROCOCCUS- C10E-06-BAC (2006)

The Recreation Use is delisted in the 2018 IR based on Enterococci data now supporting the use with 1 violate / 11 obs. at the DEQ (AQM) station @ 7-DEP001.38.

Previous Use ID (2006 IR) as TMDL ID: VAT-C10E-06.

Covered under TMDL (35552) VTA-C10E-18 EPA approved 1/15/2008.

VAT-C10E_DEP01B10 Deep Creek - Upper 0.1136 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018- ENTEROCOCCUS- C10E-06-BAC (2006)

The Recreation Use is delisted in the 2018 IR based on Enterococci data now supporting the use with 1 violate / 11 obs. at the DEQ (AQM) station @ 7-DEP001.38.

Previous Use ID (2006 IR) as TMDL ID: VAT-C10E-06.

Covered under TMDL (35552) VTA-C10E-18 EPA approved 1/15/2008.

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAT-C10E_DEP02A06	Deep Creek - Lower	0.4891 Square Miles	Recreation
Delisting Summary:			
PARTIAL DELIST 2018- ENTEROCOCCUS- C10E-06-BAC (2006)			
The Recreation Use is delisted in the 2018 IR based on Enterococci data now supporting the use with 1 violate / 11 obs. at the DEQ (AQM) station @ 7-DEP001.38.			
Previous Use ID (2006 IR) as TMDL ID: VAT-C10E-06. Covered under TMDL (35552) VTA-C10E-18 EPA approved 1/15/2008.			
VAT-C11E_CSX01A00	Chesconessex Creek - South Br. - Upper	0.1085 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018- FECAL COLIFORM and 0.03 SQ MI- C11E-11-SF (1998)			
There is a partial delist for the shellfish impairment in 2018 IR. Part of the shellfish restriction is now OPEN to SF and moved to AU VAT-C11E_CSX01B10. The DSS shellfish direct harvesting condemnation # 079-112 A (effective 20150708). Previous Use ID (2006 IR) as TMDL ID: VDH-Bay PCBs.			
1998 CD segment for shellfish (Attachment A, Category 3) VAT-C11E-11. Contained under TMDL 34103, VAT-C11E-11-SF, EPA approved 1/23/08.			
VAT-C11E_MTC01A06	Matchotank Creek - Upper	0.0691 Square Miles	Shellfishing
Delisting Summary:			
PARTIAL DELIST 2018- FECAL COLIFORM- C11E-15-SF (2006)			
The shellfish use is now supporting based on an OPEN SF designation for GA # 080-169. The shellfish use is delisted in the 2018 IR. The DSS shellfish direct harvesting condemnation # 080-169 A (effective 20071219) was previously restricted. Previous Use ID (2006 IR) as TMDL ID: VAT-C11E-15. No TMDL. TMDL due date is 2018.			
VAT-C12E_PUN01A06	Pungoteague Creek - Upper	0.2318 Square Miles	Recreation
Delisting Summary:			
PARTIAL DELIST 2018- ENTEROCOCCUS - C12E-10-BAC (2006)			
The Recreation Use is delisted in 2018 IR the Enterococcus bacteria data now supports with 2 violates / 36 obs. from upstream station @ 7-PUN002.12.			
VAT-C12E_PUN01B16	Pungoteague Creek - Middle-Upper	0.2624 Square Miles	Recreation
Delisting Summary:			
PARTIAL DELIST 2018- ENTEROCOCCUS - C12E-10-BAC (2006)			
The Recreation Use is delisted in 2018 IR the Enterococcus bacteria data now supports with 2 violates / 36 obs. from station @ 7-PUN002.12.			
This segment was new for 2016 to account for the new open shellfish area, existing recreation impairment, and nested TMDL Fecal Coliform.			

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAT-C14E_MAT01A06	Mattawoman Creek - Upper	0.1548 Square Miles	Shellfishing
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- FECAL COLIFORM and 0.02 SQ MI- C14E-13-SF (1999)</p> <p>The Shellfishing Use is impaired based on the DSS shellfish harvesting condemnation # 086-136 C (effective 20150827). Partial delist for small area now open and moved to VAT-C14E-MAT02A10. TMDL 38541 EPA Approved 5/6/2010; SWCB Approved 9/30/2012.</p> <p>1999 CD segment for shellfish (Attachment A, Category 3) VAT-C14E-13.</p>			
VAT-C14E_THG01A06	The Gulf - Upper	0.0896 Square Miles	Shellfishing
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- FECAL COLIFORM and 0.05 SQ MI - C14E-14-SF (1998)</p> <p>Partial delist for small SF area is now open and moved to VAT-C14E_THG02A06. The Shellfishing Use is impaired due to the DSS shellfish harvesting condemnation # 087-174 A (effective 20150827). Previous Use ID (2006 IR) as TMDL ID: VAT-C14E-14. This impairment is covered under TMDL for "The Gulf" (33770) VAT-C14E-14-SF, EPA approved 9/20/2007.</p> <p>1998 CD segment for shellfish (Attachment A, Category 3) VAT-C14E-14.</p>			
VAT-C14E_WHS02A06	Westerhouse Creek - Upper South Branch [TMDL]	0.0192 Square Miles	Shellfishing
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- FECAL COLIFORM and 0.05 SQ MI- C14E-16-SF (1999)</p> <p>Partial delist for small area now opened for shellfish and moved to AU VAT-C14E_WHS01A06. Portion DSS shellfish direct harvesting condemnation # 085-199 A (effective 201601013). Previous Use ID (2006 IR) as TMDL ID: VAT-C14E-16.</p> <p>Covered under TMDL for "Nassawadox Creek Watershed" (33777) EPA approved 10/20/2007.</p> <p>1999 CD segment for shellfish (Attachment A, Category 3) VAT-C14E-16.</p>			

Waters Identified for Delisting Since 2016 Report

Assessment

Unit ID	Waterbody Name	Size	Uses Partially / Fully Restored
Chesapeake Bay/Atlantic/Small Coastal Basins			
VAT-C15E_KNS01A00	Kings Creek - Upper Forks and Middle	0.0925 Square Miles	Shellfishing
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- FECAL COLIFORM and 0.05 SQ MI - C15E-10-SF (1999)</p> <p>The Shellfishing Use is impaired due to the DSS shellfish harvesting condemnation # 088-139 A (effective 20161227). In 2018 there is a partial size decrease for new open area moved to C15E_KNS03A08. In the 2016 IR AU, VAT-C15E_KNG02A00, and its Cause Group Code C15E-13-SF (2010) are merged with this assessment. There is also additional restricted area that extended in 2016 IR to include the Kings Creek upper and part of the lower middle. Part of VAT-C15E_KNG03A08 is cut and included since now this area is restricted and added as nested within the Cherrystone Inlet SF TMDL.</p> <p>Previous Use ID (2006 IR) as TMDL ID: VAT-C15E-10. This impairment is covered under TMDL for "Cherrystone Inlet" which includes Kings Creek (33772) VAT-C15E-10-SF, EPA approved 9/20/2007.</p> <p>1999 CD segment for shellfish (Attachment A, Category 3) VAT-C15E-10.</p>			
VAT-D01E_PWB01A06	Powells Bay	0.5957 Square Miles	Recreation
<p>Delisting Summary:</p> <p>DELIST 2018 - ENTEROCOCCUS- D01E-03-BAC (2006)</p> <p>The Recreation Use delisted for this assessment. Enterococci data from station 7-POW00.20 has 0 viol / 10 obs. Previously in the 2010 IR is (2/12) @ 7-PWB000.20. This assessment unit was added as impaired for the 2006 IR TMDL ID VAT-D01E-03.</p>			
VAT-D02E_LIC01A10	Little Cat Creek	0.0962 Square Miles	Shellfishing
<p>Delisting Summary:</p> <p>DELIST 2018- FECAL COLIFORM - D02E-11-SF (2006)</p> <p>The shellfish use is delisted in the 2018 IR based on a now OPEN SF GA # 099-135 (effective 2016-10-27).</p>			
VAT-D03E_FLL01A08	Folly Creek - Upper & Middle	0.3757 Square Miles	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - DO- D03E-04-DO (2006)</p> <p>The Aquatic Life Use is partially delisted for DO. Data now supports with DO 2 viol / 36 obs at station 7-FLL002.46. Previous impairment was based on dissolved oxygen concentrations (4 violates / 36 obs.) below the criteria minimum (4.0 mg/l).</p> <p>A TMDL for DO was completed for Folly Creek and EPA approved 10/3/2012. The TMDL set Total Nitrogen for reduction in order for Folly Creek to meet the DO WQS.</p>			

Waters Identified for Delisting Since 2016 Report

Assessment

<i>Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>Chesapeake Bay/Atlantic/Small Coastal Basins</i>			
VAT-D03E_WAS01A08	Wachapreague Channel	0.0722 Square Miles	Recreation
<p><i>Delisting Summary:</i> PARTIAL DELIST 2018- ENTEROCOCCUS- D03E-07-BAC (2008)</p> <p>Recreation Use is delisted in the 2018 IR. Data now supports Recreation Use with 1 viol / 17 obs at DEQ station @ 7-WAS003.26.</p>			
VAT-D07E_LAI01A06	Lake Rudee - Upper	0.0993 Square Miles	Recreation
<p><i>Delisting Summary:</i> PARTIAL DELIST 2018 - ENTEROCOCCUS- D07E-02-BAC (2004)</p> <p>The Recreation Use impairment is delisted in the 2018 IR based on 2012 and 2015 data. Station 7-LAI000.56 has 0 viol / 12 obs.</p>			
VAT-D07E_OWL02A02	Owl Creek - Lower	0.0194 Square Miles	Recreation
<p><i>Delisting Summary:</i> PARTIAL DELIST 2018 - ENTEROCOCCUS- D07E-04-BAC (2008)</p> <p>The Recreation Use is delisted in 2018 IR with 1 viol / 12 obs at station 7-OWL000.01. Impairment was retained in the 2016 IR based on Enterococci bacteria exceedance (1 viol / 5obs.) at DEQ station @ 7-OWL000.01. 2102 IR violation rate was 3/13.</p>			

NOTE: Partial delists indicate at least one other pollutant exists on the Assessment Unit (AU). If "PARTIAL" is not specified in the delist statement, the AU is supporting all assessed Uses.

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

York River Basin

VAN-F01R_SAR02A02	South Anna River	1.9 Miles	Aquatic Life
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Delisting Summary:

PARTIAL DELIST 2018 - Benthic Macroinvertebrates - F01R-01-BEN, VAN-F01R-01 (CFL 2010)

During the 2014 and 2016 cycles, this segment was assessed as not supporting the aquatic life use because biological monitoring events in 2007 and 2008 (spring and fall) at station 8-SAR097.82 resulted in VSCI scores indicating an impaired macroinvertebrate community. Subsequent biological monitoring events (4) took place in 2015 and 2016 (spring and fall) at this location. The 2015 and 2016 events indicated a healthy aquatic community and support of the aquatic life use. The average VSCI score from the two most recent years of sampling also indicate support of the aquatic life use. It has been determined that this segment should be delisted for benthic macroinvertebrates based upon recent VSCI scores indicating a healthy benthic macroinvertebrate community.

VAN-F03R_CUB01A08	Cub Creek	3.1 Miles	Recreation
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Delisting Summary:

PARTIAL DELIST 2018 - E. coli - F03R-06-BAC, VAN-F03R-03 (CFL 2010)

During the 2014 and 2016 assessment cycles, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion (3 of 10 samples - 30.0%) recorded during 2011 and 2012 at DEQ's ambient water quality monitoring station 8-CUB002.73 at Route 648. Subsequent E. coli bacteria monitoring conducted in 2013 at DEQ's ambient water quality monitoring station 8-CUB001.73 at Route 601 found that 0 of 12 samples (0.0%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based on an acceptable exceedance rate.

Note: this segment was eligible for delist during the 2016 cycle, but was inadvertently excluded.

VAN-F03R_SAR01B06	South Anna River	4.1 Miles	Recreation
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Delisting Summary:

DELIST 2018 - E. coli, 4.11 miles - F03R-09-BAC, VAN-F03R-01 (CFL 2012)

During previous cycles, this segment was included with an upstream portion of the South Anna River, with the recreation use impaired during the 2016 cycle based on bacteria monitoring at monitoring station 8-SAR035.05 at Route 617, for which excursions from the maximum E. coli bacteria criterion (4 of 33 samples - 12.1%) were recorded. However, additional bacteria monitoring was conducted at DEQ monitoring station 8-SAR030.01 at Route 611 (Dunns Chapel Road) and results from the samples collected in 2014 found that 1 of 12 samples (8.3%) exceeds the maximum E. coli bacteria criterion. As a result, this downstream segment (4.11 miles) was split from the upstream portion of the former segment. It has been determined that this segment should be delisted for E. coli based upon an acceptable exceedance rate.

VAN-F07L_GMC01A02	Lake Anna/Gold Mine Creek	91.62 Acres	Recreation
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Delisting Summary:

PARTIAL DELIST 2018 - E. coli - F07L-01-BAC (CFL 2008)

During the 2014 and 2016 cycles, excursions from the maximum E. coli bacteria criterion (3 of 28 samples - 10.7%) were recorded at the DEQ and LACA co-located lake monitoring station (8-GMC000.23/8GMC-13-LACA). Additional bacteria monitoring at this location found that 2 of 26 samples (7.7%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based on an acceptable exceedance rate.

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

York River Basin

VAN-F08R_CON01A00 Contrary Creek 5.52 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Temperature - F08R-01-TEMP, VAN-F08R-01 (CFL 2016)

During the 2016 cycle, this segment was assessed as not supporting the aquatic life use because of excursions greater than the maximum temperature criterion (4 of 34 samples - 11.8%) recorded at DEQ ambient water quality monitoring station 8-CON005.38 at Route 522. Additional temperature monitoring conducted at this location for the 2018 cycle found that a total of 3 of 33 samples (9.1%) exceed the temperature criterion. It has been determined that this segment should be delisted for temperature based upon an acceptable exceedance rate.

VAN-F15R_LWS01A12 Lewis Run 1.46 Miles Aquatic Life

Delisting Summary:

DELIST 2018 - Dissolved Oxygen - F15R-02-DO, VAN-F15R-02 (CFL 2012)

During the 2014 cycle, this segment was assessed as not supporting the aquatic life use due to sufficient excursions less than the minimum dissolved oxygen criterion (6 of 33 samples - 18.2%) at NPS station 8LWS-01-NPS. During the 2016 cycle, additional monitoring resulted in this segment being assessed as not supporting the aquatic life use due to sufficient excursions less than the minimum dissolved oxygen criterion (7 of 52 samples - 13.5%) at NPS station 8LWS-01-NPS. During the 2016 cycle, there were also dissolved oxygen data collected for this segment at NPS station 8LWS-03-NPS (2 of 51 samples - 3.9%). Pooling the 2016 cycle data for the segment would have resulted in a total of 9 out of 103 samples (8.7%) less than the minimum dissolved oxygen criterion. This segment qualified for delisting for the dissolved oxygen parameter during the 2016 cycle due to an acceptable exceedance rate, but was erroneously excluded. During the 2018 cycle, dissolved oxygen sampling at stations 8LWS-01-NPS and 8LWS-03-NPS resulted in a pooled total of 6 out of 87 samples (6.9%) less than the minimum dissolved oxygen criterion. It has been determined that this segment should be delisted for dissolved oxygen based on an acceptable excursion rate.

VAN-F18R_MTA01A00 Matta River 11.89 Miles Recreation

Delisting Summary:

DELIST 2018 - E. coli - F18R-02-BAC, VAN-F03R-03 (CFL 2004)

During the 2016 assessment cycle, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion (8 of 35 samples - 22.9%) recorded at DEQ's ambient water quality monitoring station 8-MTA001.69 at Route 632. Additional bacteria monitoring at this location found that 3 of 32 samples (9.4%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based upon an acceptable exceedance rate.

VAN-F18R_TAR01A00 Ta River 3.76 Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - DO - F18R-01-DO (CFL 2010)
PARTIAL DELIST 2018 - pH - F18R-02-PH (CFL 2010)

During the 2014 and 2016 cycles, this segment was assessed as not supporting the aquatic life use because of excursions less than the minimum dissolved oxygen criterion (2 of 11 samples - 18.2%) at Route 738 (8-TAR002.40). Additional monitoring conducted at this location found a total of 0 of 11 samples (0.0%) less than the dissolved oxygen criterion. It has been determined that this segment should be delisted for dissolved oxygen based upon an acceptable excursion rate.

During the 2014 and 2016 cycles, this segment was assessed as not supporting the aquatic life use because of excursions less than the lower limit of the pH criterion range (2 of 11 samples - 18.2%) at Route 738 (8-TAR002.40). Additional monitoring conducted at this location found a total of 0 of 12 samples (0.0%) less than the lower limit of the pH criterion range. It has been determined that this segment should be delisted for pH based upon an acceptable excursion rate.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAN-F20R_PCT01A00	Polecat Creek	5.24 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - DO, 1.73 miles - F20R-01-DO, F20R-01 (CFL 2010)			
During the 2016 assessment cycle, this segment was assessed as not supporting the aquatic life use because of sufficient excursions less than the minimum dissolved oxygen criterion at stations 8-PCT005.44 at below Caroline County POTW (4 of 8 samples - 50.0%) and 8-PCT006.34 at the Route 207 crossing (5 of 8 samples - 62.5%). In 2018, this segment was shortened by 1.73 miles and stations 8-PCT005.44 and 8-PCT006.34 were assigned to upstream segment VAN-F20R_PCT01B06. Monitoring within this segment for the 2018 assessment cycle found that 1 of 51 samples (2.0%) at station 8-PCT000.76 at Route 301/2 and 3 of 37 samples (8.1%) at station 8-PCT002.29 at Route 601 were less than the minimum dissolved oxygen criterion. It has been determined that the remaining 5.24 miles included in this segment should be delisted for dissolved oxygen based upon an acceptable exceedance rate.			
VAN-F20R_PCT01B06	Polecat Creek	4.34 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - Benthic Macroinvertebrates, 1.73 miles - F20R-01-BEN, VAN-F20R-01 (CFL 2014)			
In 2018, this segment was lengthened downstream by 1.73 miles to incorporate monitoring stations that were previously assigned to downstream segment VAN-F20R_PCT01A00. Upon further consideration of the watershed characteristics, it was determined that these 1.73 miles should be assigned to this segment and the benthic macroinvertebrates impairment should apply only to downstream segment VAN-F20R_PCT01A00, which has been shortened by 1.73 miles. There was no biological monitoring for this segment for the 2018 assessment cycle. As a result, the benthic macroinvertebrate parameter, first listed in 2014, was submitted for delist for the 1.73 miles added to this segment in 2018.			
VAN-F21R_MPN01B02	Mattaponi River	4.91 Miles	Recreation
Delisting Summary:			
PARTIAL DELIST 2018 - E. coli - F21R-06-BAC (CFL 2016)			
During the 2016 cycle, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion (5 of 36 samples - 13.9%) recorded at DEQ's ambient water quality monitoring station 8-MPN054.17 at the Route 628 bridge. Additional bacteria monitoring at this location found that 4 of 47 samples (8.5%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based upon an acceptable exceedance rate.			
VAN-F21R_MPN01C02	Mattaponi River	3.09 Miles	Recreation
Delisting Summary:			
DELIST 2018 - E. coli - F21R-06-BAC (CFL 2016)			
During the 2016 cycle, this segment was assessed as not supporting the recreation use because of excursions from the maximum E. coli bacteria criterion (5 of 36 samples - 13.9%) recorded at DEQ's ambient water quality monitoring station 8-MPN054.17 at the Route 628 bridge. Additional bacteria monitoring at this location found that 4 of 47 samples (8.5%) exceed the maximum E. coli bacteria criterion. It has been determined that this segment should be delisted for E. coli based upon an acceptable exceedance rate.			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F12R_HQT01A00	Hornquarter Creek	6.77 Miles	Aquatic Life
<p>Delisting Summary:</p> <p>DELIST 2018 - Dissolved Oxygen - F12R-03-DO (CFL 2012)</p> <p>Hornquarter Creek was impaired of the Aquatic Life Use during the 2012 cycle due to a dissolved oxygen violation rate of 2/12 at 8-HQT002.12 (Route 614 bridge). Monitoring at 8-HQT004.62 was acceptable (0/3).</p> <p>A Natural Conditions Assessment was completed during the 2014 cycle. The report recommends that the entire Hornquarter Creek watershed be reclassified as Class VII swampwaters. Until the WQS could be revised, the impairment was considered Category 4C.</p> <p>The stream was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p> <p>DELIST 2018 - pH - F12R-03-PH / 01101 / VAP-F12R-05 (CFL 2002)</p> <p>Hornquarter Creek was initially evaluated as not supporting of the Aquatic Life Use support goal during the 2002 cycle based on pH standard exceedances at the Route 614 bridge (8-HQT002.12). During the 2012 cycle, the violation rate was 5/11.</p> <p>Although no additional data has been collected, a review of the 2012 data indicate that Hornquarter Creek would have met the Class VII pH criteria of 3.7-8.0 SU; therefore, the pH impairment will be delisted.</p>			
VAP-F13R_ACQ01A14	Acquinton Creek	9.65 Miles	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - Dissolved Oxygen - F13R-03-DO / 01103 / VAP-F13R-03 (CFL 2002)</p> <p>The mainstem of Jacks Creek was assessed as fully supporting but threatened of the Aquatic Life Use in 1998 due to dissolved oxygen exceedances at the Rt. 621 bridge (8-JCK004.15). In 2002, the segment was downgraded to impaired and extended to incorporate Acquinton and Mallory Creeks based on the results of a special study.</p> <p>A Natural Conditions Assessment was conducted during the 2014 cycle. The report attributes the low dissolved oxygen to natural swampwater conditions and recommends that the watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was assessed as Category 4C.</p> <p>During the 2016 cycle, the exceedance rates were as follows: 8-ACQ001.35 - 1/24 8-ACQ004.43 - 7/23 (IM) 8-ACQ008.01 - 8/23 (IM) 8-JKC004.15 - 11/36 (IM) 8-JKC005.80 - 0/23 8-JKC007.95 - 7/24 (IM) 8-MLY001.58 - 4/23 (IM)</p> <p>The Jacks Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F13R_GOV01A10	Governor Swamp	3.32 Miles	Aquatic Life
Delisting Summary:			
DELIST 2018 - Dissolved Oxygen - F13R-05-DO (CFL 2010)			
Governor Swamp was initially assessed as not supporting of the Aquatic Life Use during the 2010 cycle based on dissolved oxygen violations at 8-GOV000.14. The 2012 violation rate was 4/12.			
A Natural Conditions Assessment for the Moncuin Creek/Webb Creek watershed was completed during the 2014 cycle. The report recommends that the watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was considered Category 4C.			
The Moncuin Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.			
DELIST 2018 - pH - F13R-05-PH (CFL 2010)			
Governor Swamp was initially assessed as not supporting of the Aquatic Life Use during the 2010 cycle based on pH violations at 8-GOV000.14. The 2012 violation rate was 8/12.			
A Natural Conditions Assessment for the Moncuin Creek/Webb Creek watershed was completed during the 2014 cycle. The report recommends that the watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was considered Category 4C.			
The Moncuin Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Although no additional data has been collected, a review of the data from the 2012 cycle indicates that the segment meets the Class VII pH criteria of 3.7-8.0 SU and Governor Swamp will be delisted.			
VAP-F13R_JKC01A98	Jacks Creek	7.51 Miles	Aquatic Life
Delisting Summary:			
PARTIAL DELIST 2018 - Dissolved Oxygen - F13R-03-DO / 01103 / VAP-F13R-03 (CFL 2002)			
The mainstem of Jacks Creek was assessed as fully supporting but threatened of the Aquatic Life Use in 1998 due to dissolved oxygen exceedances at the Rt. 621 bridge (8-JCK004.15). In 2002, the segment was downgraded to impaired and extended to incorporate Acquinton and Mallory Creeks based on the results of a special study.			
A Natural Conditions Assessment was conducted during the 2014 cycle. The report attributes the low dissolved oxygen to natural swampwater conditions and recommends that the watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was assessed as Category 4C.			
During the 2016 cycle, the exceedance rates were as follows:			
8-ACQ001.35 - 1/24			
8-ACQ004.43 - 7/23 (IM)			
8-ACQ008.01 - 8/23 (IM)			
8-JKC004.15 - 11/36 (IM)			
8-JKC005.80 - 0/23			
8-JKC007.95 - 7/24 (IM)			
8-MLY001.58 - 4/23 (IM)			
The Jacks Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F13R_MHX01A12	Mehixen Creek	4.39 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - pH 4.40 Miles - F13R-14-PH (CFL 2012)</p> <p>During the 2012 cycle, Mehixen Creek and its tributary XIV were impaired of the Aquatic Life Use due to pH violation rates of 4/11 at stations 8-MHX001.50 and 8-XIV000.88, which are both located at Rt. 652.</p> <p>A Natural Conditions Assessment was completed during the 2014 cycle. The exceedances were attributed to natural swampwater conditions and the report recommends that the watershed be reclassified as Class VII swampwater. However, the slopes and nutrients were slightly above the current protocol, so the watershed remained Category 5C.</p> <p>Additional monitoring was conducted in the 2018 cycle at 8-MHX001.50. The exceedance rate was acceptable (1/11); therefore, the Mehixen Creek mainstem will be partially delisted. XIV will remain impaired until monitoring at 8-XIV000.88 can be conducted.</p>			
VAP-F13R_MLY01A12	Mallory Creek	4.02 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Dissolved Oxygen - F13R-03-DO / 01103 / VAP-F13R-03 (CFL 2002)</p> <p>The mainstem of Jacks Creek was assessed as fully supporting but threatened of the Aquatic Life Use in 1998 due to dissolved oxygen exceedances at the Rt. 621 bridge (8-JCK004.15). In 2002, the segment was downgraded to impaired and extended to incorporate Acquinton and Mallory Creeks based on the results of a special study.</p> <p>A Natural Conditions Assessment was conducted during the 2014 cycle. The report attributes the low dissolved oxygen to natural swampwater conditions and recommends that the watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was assessed as Category 4C.</p> <p>During the 2016 cycle, the exceedance rates were as follows: 8-ACQ001.35 - 1/24 8-ACQ004.43 - 7/23 (IM) 8-ACQ008.01 - 8/23 (IM) 8-JKC004.15 - 11/36 (IM) 8-JKC005.80 - 0/23 8-JKC007.95 - 7/24 (IM) 8-MLY001.58 - 4/23 (IM)</p> <p>The Jacks Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p> <p>PARTIAL DELIST 2018 - pH - F13R-10-PH (CFL 2012)</p> <p>Mallory Creek was impaired of the Aquatic Life Use during the 2012 cycle due to pH violations at the Rt. 632 bridge (8-MLY001.58). The exceedance rate was 6/23 during the 2014 cycle.</p> <p>A Natural Conditions Assessment was conducted. The report attributes the low pH to natural swampwater conditions and recommends that the watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was assessed as Category 4C.</p> <p>The Jacks Creek watershed was reclassified as Class VII swampwaters during the 2018 cycle. The pH exceedance rate was now acceptable (0/12); therefore, the impairment will be delisted.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F13R_MNQ01A98	Monquin Creek / Webb Creek	12.12 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - pH - F13R-04-PH / 01106 / VAP-F13R-04 (CFL 2002)</p> <p>In the 2002 cycle, the segment was assessed as not supporting of the Aquatic Life because of pH exceedances. During the 2012 cycle, the segment remained impaired for pH:</p> <p>3/18 at 8-MNQ004.19 (Rt. 618) 3/12 at 8-MNQ007.65 (Rt. 611) 4/12 at 8-WEB002.00 (Rt. 610)</p> <p>A Natural Conditions Assessment was completed during the 2014 cycle. The report recommends that the watershed be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was considered Category 4C.</p> <p>The Monquin Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle and was assessed against the Class VII pH criteria. The exceedance rate was acceptable (0/11 at 8-WEB002.00); therefore, the segment will be delisted.</p>			
VAP-F13R_SLN01A00	Sullens Creek	4.6 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - Dissolved Oxygen - F13R-06-DO (CFL 2012)</p> <p>During the 2012 cycle, Sullens Creek was impaired of the Aquatic Life Use due to dissolved oxygen violation rates of 5/14 at the Rt. 652 bridge (8-SLN001.46) and 2/12 at the Rt. 614 bridge (8-SLN003.07).</p> <p>A Natural Conditions Assessment was completed during the 2014 cycle. The exceedances were attributed to natural swampwater conditions and the report recommends that the watershed be reclassified as Class VII swampwater. However, the slopes and nutrients were slightly above the current protocol, so the watershed remained Category 5C.</p> <p>Additional monitoring was conducted in the 2018 cycle at 8-SLN003.07. The exceedance rate was acceptable (1/12); therefore, the segment will be delisted.</p> <p>DELIST 2018 - pH - F13R-06-PH / 01108 / VAP-F13R-06 (CFL 2004)</p> <p>Sullens Creek from the pond at Etna Mills downstream to its mouth at Mehixen Creek was initially assessed as not supporting of the Aquatic Life Use goal during the 2004 cycle based on pH exceedances at the Route 652 bridge (8-SLN001.46).</p> <p>During the 2012 cycle, the impairment was expanded upstream to the headwaters based on a violation rate of 8/13 at 8-SLN001.46 and 6/11 at 8-SLN003.07.</p> <p>A Natural Conditions Assessment was completed during the 2014 cycle. The exceedances were attributed to natural swampwater conditions and the report recommends that the watershed be reclassified as Class VII swampwater. However, the slopes and nutrients were slightly above the current protocol, so the watershed remained Category 5C.</p> <p>Additional monitoring was conducted in the 2018 cycle at 8-SLN003.07. The exceedance rate was acceptable (1/11); therefore, the segment will be delisted.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F13R_TPT01A98	Totopotomoy Creek	10.26 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Dissolved Oxygen - F13R-02-DO (CFL 2014)</p> <p>During the 2014 cycle, Totopotomoy Creek was impaired of the Aquatic Life Use due to dissolved oxygen exceedances at 8-TPT006.97, 8-TPT009.17, 8-TPT013.57, and 8-TPT016.30.</p> <p>A Natural Conditions Assessment was conducted and attributes the dissolved oxygen violations to natural conditions and recommends that the entire mainstem of Totopotomoy Creek be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was considered Category 4C.</p> <p>Totopotomoy Creek was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p>			
VAP-F13R_TPT02A14	Totopotomoy Creek	7.49 Miles	Aquatic Life
<p>Delisting Summary: DELIST 2018 - Dissolved Oxygen - F13R-02-DO (CFL 2014)</p> <p>During the 2014 cycle, Totopotomoy Creek was impaired of the Aquatic Life Use due to dissolved oxygen exceedances at 8-TPT006.97, 8-TPT009.17, 8-TPT013.57, and 8-TPT016.30.</p> <p>A Natural Conditions Assessment was conducted and attributes the dissolved oxygen violations to natural conditions and recommends that the entire mainstem of Totopotomoy Creek be reclassified as Class VII swampwater. Until the WQS could be revised, the impairment was considered Category 4C.</p> <p>Totopotomoy Creek was reclassified as Class VII swampwaters during the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p>			
VAP-F14E_PMK05B00	Pamunkey River	1.1933 Square Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - Estuarine Bioassessments 1.1933 mi² - F14E-05-EBEN (CFL 2010)</p> <p>The oligohaline Pamunkey River mainstem initially failed the Chesapeake Bay Index of Biologic Integrity during the 2010 cycle. The impairment continued during the 2014 cycle.</p> <p>In addition, a 2012 weight-of-evidence analysis at estuarine probabilistic monitoring station 8-PMK017.90 showed benthic alteration probably caused by metals in sediment (Category 5A).</p> <p>The mainstem met the B-IBI criteria in the 2018 cycle. However, due to the 2012 WOE sample the portion of the mainstem around the station will remain listed. The remaining Pamunkey mainstem will be partially delisted.</p>			

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

York River Basin

VAP-F14E_PMK06A00 Pamunkey River 3.382 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Estuarine Bioassessments 3.382 mi² - F14E-05-EBEN (CFL 2010)

The oligohaline Pamunkey River mainstem initially failed the Chesapeake Bay Index of Biologic Integrity during the 2010 cycle. The impairment continued during the 2014 cycle.

In addition, a 2012 weight-of-evidence analysis at estuarine probabilistic monitoring station 8-PMK017.90 showed benthic alteration probably caused by metals in sediment (Category 5A).

The mainstem met the B-IBI criteria in the 2018 cycle. However, due to the 2012 WOE sample the portion of the mainstem around the station will remain listed. Continued monitoring is recommended. The remaining Pamunkey mainstem will be partially delisted.

VAP-F14E_PMK06B06 Pamunkey River 0.5843 Square Miles Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Estuarine Bioassessments 0.5843 mi² - F14E-05-EBEN (CFL 2010)

The oligohaline Pamunkey River mainstem initially failed the Chesapeake Bay Index of Biologic Integrity during the 2010 cycle. The impairment continued during the 2014 cycle.

In addition, a 2012 weight-of-evidence analysis at estuarine probabilistic monitoring station 8-PMK017.90 showed benthic alteration probably caused by metals in sediment (Category 5A).

The mainstem met the B-IBI criteria in the 2018 cycle. However, due to the 2012 WOE sample the portion of the mainstem around the station will remain listed. Continued monitoring is recommended. The remaining Pamunkey mainstem will be partially delisted.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>York River Basin</i>			
VAP-F23R_DKW01A00	Dickeys Swamp	3.99 Miles	Aquatic Life

Delisting Summary:

DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2002)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.

Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04

During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.

XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates:

6/23 at 8-DKW000.12
6/23 at 8-DKW001.12
7/23 at 8-DKW004.31
8/23 at 8-DKW005.73
10/23 at 8-DWD000.77
5/23 at 8-FTS001.98
5/49 at 8-GNT001.54
3/23 at 8-MKT001.04

In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).

The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F23R_DKW01B00	Dickeys Swamp	4.33 Miles	Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2002)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.

Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04

During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.

XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates:

6/23 at 8-DKW000.12
6/23 at 8-DKW001.12
7/23 at 8-DKW004.31
8/23 at 8-DKW005.73
10/23 at 8-DWD000.77
5/23 at 8-FTS001.98
5/49 at 8-GNT001.54
3/23 at 8-MKT001.04

In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).

The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>York River Basin</i>			
VAP-F23R_DKW01C98	Dickeys Swamp	0.07 Miles	Aquatic Life

Delisting Summary:

DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2002)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.

Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04

During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.

XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates:

6/23 at 8-DKW000.12
6/23 at 8-DKW001.12
7/23 at 8-DKW004.31
8/23 at 8-DKW005.73
10/23 at 8-DWD000.77
5/23 at 8-FTS001.98
5/49 at 8-GNT001.54
3/23 at 8-MKT001.04

In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).

The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F23R_DWD01A00	Dogwood Fork	2.91 Miles	Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2002)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.

Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04

During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.

XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates:

6/23 at 8-DKW000.12
6/23 at 8-DKW001.12
7/23 at 8-DKW004.31
8/23 at 8-DKW005.73
10/23 at 8-DWD000.77
5/23 at 8-FTS001.98
5/49 at 8-GNT001.54
3/23 at 8-MKT001.04

In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).

The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F23R_FTS01A10	Fleets Creek	5.01 Miles	Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2010)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.

Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04

During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.

XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates:

- 6/23 at 8-DKW000.12
- 6/23 at 8-DKW001.12
- 7/23 at 8-DKW004.31
- 8/23 at 8-DKW005.73
- 10/23 at 8-DWD000.77
- 5/23 at 8-FTS001.98
- 5/49 at 8-GNT001.54
- 3/23 at 8-MKT001.04

In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).

The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F23R_GNT01A00	Garnetts Creek	2.83 Miles	Aquatic Life

Delisting Summary:

PARTIAL DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2010)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.

Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04

During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.

XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates:

6/23 at 8-DKW000.12
6/23 at 8-DKW001.12
7/23 at 8-DKW004.31
8/23 at 8-DKW005.73
10/23 at 8-DWD000.77
5/23 at 8-FTS001.98
5/49 at 8-GNT001.54
3/23 at 8-MKT001.04

In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).

The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>York River Basin</i>			
VAP-F23R_MKT01A00	Market Swamp / Walker Coleman Pond	3.12 Miles	Aquatic Life

Delisting Summary:

DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2014)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.

Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04

During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.

XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates:

- 6/23 at 8-DKW000.12
- 6/23 at 8-DKW001.12
- 7/23 at 8-DKW004.31
- 8/23 at 8-DKW005.73
- 10/23 at 8-DWD000.77
- 5/23 at 8-FTS001.98
- 5/49 at 8-GNT001.54
- 3/23 at 8-MKT001.04

In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).

The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
York River Basin			
VAP-F23R_MKT01B00	Market Swamp	2.01 Miles	Aquatic Life
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018 - Dissolved Oxygen - F23R-02-DO / VAP-F23R-02 / 01118 (CFL 2010)</p> <p>Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen exceedances at the Route 620 bridge (8-DKW000.12)</p> <p>The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL was due in 2014.</p> <p>Additional monitoring in the 2010 cycle confirmed the impairment throughout the segment with violations at 8-DKW000.12, 8-DKW001.12, 8-DKW004.31, 8-DKW005.73, 8-DWD000.77, and 8-XDN000.12. In addition, the impairment was expanded to include Garnetts Creek, Fleets Creek, and Market Swamp below Walker Coleman Pond due to exceedances at 8-GNT001.54, 8-FTS001.98, and 8-MKT001.04</p> <p>During the 2012 cycle, the UT to Garnetts Creek XDN was delisted because additional monitoring showed an acceptable violation rate.</p> <p>XDN remained fully supporting in the 2014 cycle (0/25). The remaining stations had the following exceedance rates: 6/23 at 8-DKW000.12 6/23 at 8-DKW001.12 7/23 at 8-DKW004.31 8/23 at 8-DKW005.73 10/23 at 8-DWD000.77 5/23 at 8-FTS001.98 5/49 at 8-GNT001.54 3/23 at 8-MKT001.04</p> <p>In addition, the impairment was extended to include Market Swamp to its headwaters based on a dissolved oxygen exceedance of 3/12 at 8-MKT002.77 (Route 631).</p> <p>The Garnetts Creek watershed was reclassified as Class VII swampwaters in the 2018 cycle. Per Virginia's Water Quality Standards (9VAC25-260-50), numeric dissolved oxygen standards only apply to Class VII waters when there is sufficient evidence the narrative criterion is not protective of aquatic life uses. To date, this Class VII water has not exhibited a need for a site-specific DO criterion, so the dissolved oxygen impairment has been removed.</p>			
VAT-F26E_YRK01A04	York River	4.7955 Square Miles	Recreation
<p>Delisting Summary:</p> <p>PARTIAL DELIST 2018- ENTEROCOCCUS- F26E-05-BAC (2006)</p> <p>Recreation is delisted in the 2018 IR. Previously impaired for the 2016 cycle based on enterococci data from station 8-YRK031.39 with 7 viol/ 59 obs. Now data supports with 2 viol/ 58 observations.</p> <p>The impairment was addressed in the report ""Bacteria Total Maximum Daily Load (TMDL) Development for the Upper York River, the Lower Pamunkey River, and the Lower Mattaponi River (Tidal) Watersheds"" which was completed during the 2012 cycle and was approved by the EPA on 7/28/2010. The segment is considered Category 4A.</p> <p>Previous TMDL ID = VAT-F26E-05. 2006 70002 / 2008 F26E-05-BAC</p>			

Waters Identified for Delisting Since 2016 Report

*Assessment
Unit ID*

Waterbody Name

Size

Uses Partially / Fully Restored

York River Basin

VAT-F26E_YRK01B10 York River 1.0856 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018- ENTEROCOCCUS- F26E-05-BAC (2006)

Recreation is delisted in the 2018 IR. Previously impaired for the 2016 cycle based on enterococci data from station 8-YRK031.39 with 7 viol/ 59 obs. Now data supports with 2 viol/ 58 observations.

The impairment was addressed in the report ""Bacteria Total Maximum Daily Load (TMDL) Development for the Upper York River, the Lower Pamunkey River, and the Lower Mattaponi River (Tidal Watersheds"" which was completed during the 2012 cycle and was approved by the EPA on 7/28/2010. The segment is considered Category 4A.

Previous TMDL ID = VAT-F26E-05. 2006 70002 / 2008 F26E-05-BAC

Data extrapolated from VAT-F26E_YRK01E14

VAT-F26E_YRK01C12 York River-at Hockley Cr 0.029 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018- ENTEROCOCCUS- F26E-05-BAC (2006)

Recreation is delisted in the 2018 IR. Previously impaired for the 2016 cycle based on enterococci data from station 8-YRK031.39 with 7 viol/ 59 obs. Now data supports with 2 viol/ 58 observations.

The impairment was addressed in the report ""Bacteria Total Maximum Daily Load (TMDL) Development for the Upper York River, the Lower Pamunkey River, and the Lower Mattaponi River (Tidal Watersheds"" which was completed during the 2012 cycle and was approved by the EPA on 7/28/2010. The segment is considered Category 4A.

Previous TMDL ID = VAT-F26E-05. 2006 70002 / 2008 F26E-05-BAC

Extrapolated from VAT-F26E_YRK01E14 data

VAT-F26E_YRK01D12 York River 0.0422 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018- ENTEROCOCCUS- F26E-05-BAC (2006)

Recreation is delisted in the 2018 IR. Previously impaired for the 2016 cycle based on enterococci data from station 8-YRK031.39 with 7 viol/ 59 obs. Now data supports with 2 viol/ 58 observations.

The impairment was addressed in the report ""Bacteria Total Maximum Daily Load (TMDL) Development for the Upper York River, the Lower Pamunkey River, and the Lower Mattaponi River (Tidal Watersheds"" which was completed during the 2012 cycle and was approved by the EPA on 7/28/2010. The segment is considered Category 4A.

Previous TMDL ID = VAT-F26E-05. 2006 70002 / 2008 F26E-05-BAC

Extrapolated from VAT-F26E_YRK01E14 data

Waters Identified for Delisting Since 2016 Report

Assessment Unit ID

Waterbody Name

Size

Uses Partially / Fully Restored

York River Basin

VAT-F26E_YRK01E14 York River 1.753 Square Miles Recreation

Delisting Summary:

PARTIAL DELIST 2018- ENTEROCOCCUS- F26E-05-BAC (2006)

Recreation is delisted in the 2018 IR. Previously impaired for the 2016 cycle based on enterococci data from station 8-YRK031.39 with 7 viol/ 59 obs. Now data supports with 2 viol/ 58 observations.

The impairment was addressed in the report ""Bacteria Total Maximum Daily Load (TMDL) Development for the Upper York River, the Lower Pamunkey River, and the Lower Mattaponi River (Tidal) Watersheds"" which was completed during the 2012 cycle and was approved by the EPA on 7/28/2010. The segment is considered Category 4A.

Previous TMDL ID = VAT-F26E-05. 2006 70002 / 2008 F26E-05-BAC

Extrapolated from VAT-F26E_YRK01A04 data

VAT-F26L_QEN01A06 Waller Mill Reservoir
(PWS) 287.7 Acres Aquatic Life

Delisting Summary:

DELIST 2018 - DO- F26L-01-DO (2006)

Aquatic Life Use is delisted in 2018 for DO . DO now supports ALUS based on samples taken at stations 8-QEN007.02, 8-QEN007.22, 8-QEN007.65, 8-QEN008.58 for dissolved oxygen with a pooled violation rate of 5.6% (12 violations/ 213 obs.). Individual exceedances include 8-QEN007.02 (4 violates/ 59 obs), 8-QEN007.22 (2 violates/ 50 obs), 8-QEN007.65 (6 violates/ 59 obs), and 8-QEN008.58 (0 violates/ 45 obs).

pH data at the above mentioned stations support Aquatic Life Use with 0 viol/ 241 obs. Water toxics for Waller Mill Reservoir support Aquatic Life Use. Chl-a data support ALU with 0 viol/ 2 obs from 2013, 2016 years.

VAT-F27E_PRN01C12 Perrin River - Upper
Middle 0.0245 Square Miles Shellfishing

Delisting Summary:

PARTIAL DELIST 2018- FECAL COLIFORM- F27E-29-SF (2016)

The Upper Middle Perrin River is delisted in the 2018 IR based on the newly opened area shellfish use based on VDH-DSS GA 046-081 (effective date 20150814). Delisted area was apart of the old section A.

The Perrin River was included on the 1998 303(d) list under condemnation 81, 7/22/1996. The Perrin River Shellfish TMDL was approved by the EPA on 7/6/2007. The condemned area was shortened and split in the 2012 cycle (VDH-DSS condemnation 046-081A and -B, 8/3/2010). The closed areas will be considered Category 4A, the open area will be partially delisted (Category 2C.)

1999 CD segment for shellfish (Attachment A, Category 3,) VAT-F27E-14. VAT-F27E-14

NOTE: Partial delists indicate at least one other pollutant exists on the Assessment Unit (AU). If "PARTIAL" is not specified in the delist statement, the AU is supporting all assessed Uses.

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>New River Basin</i>			
VAS-N14R_ISL01A12	Island Creek & tributaries	13.35 Miles	Aquatic Life
<p>Delisting Summary: PARTIAL DELIST 2018 - benthic macroinvertebrates - N14R-03-BEN (2012)</p> <p>Benthic sampling at 9-ISL003.05 was fully supporting. VSCI @ 9-ISL002.30:VSCI: 05/19/2015 69.16 10/22/2015 63.15</p>			
VAS-N32R_CLF01A08	Clear Fork	8.94 Miles	Recreation
<p>Delisting Summary: DELIST 2018 - E.coli - N32R-00-BAC (2012)</p> <p>Recreation Use was supported; 8% exceeded WQS for E. Coli. TMDL for bacteria was approved 7/27/2016. Cause group code was N32R-01-BAC; split from WCRO.</p>			
VAS-N33R_LAC01A00	Laurel Creek	1.64 Miles	Recreation
<p>Delisting Summary: DELIST 2018 - E.coli, Fecal Coliform - N33R-01-BAC (2006) WQS for E.coli was exceeded at 9-LAC000.56 in 8% of samples.</p>			
VAS-N33R_LAC01A04	Laurel Creek	1.32 Miles	Recreation
<p>Delisting Summary: DELIST 2018 - E.coli - N33R-01-BAC (2012) WQS for E.coli was exceeded at 9-LAC002.17 was exceeded in 8% of samples.</p>			
VAW-N29R_NEW01A02	New River	3.2 Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018 - Bacteria - VAW-L29R-01 / N29R-01-BAC (2014) Initially listed 2006 IR. De-listed 2008 IR. Returns 2014 IR. De-list 2018. The waters are delisted based on data collections at station 9-NEW030.15 (Route 460 Bridge at Glen Lyn). Station 9-NEW030.15 2018 IR Escherichia coli (E.coli) data produce results with two excursions of the WQS 235 cfu/100 mL instantaneous criterion from 49 observations.</p>			
VAW-N29R_NEW02A02	New River	3.55 Miles	Recreation
<p>Delisting Summary: PARTIAL DELIST 2018 - Bacteria - VAW-L29R-01 / N29R-01-BAC (2014) Initially listed 2006 IR. De-listed 2008 IR. Returns 2014 IR. De-list 2018. The waters are delisted based on data collections at station 9-NEW030.15 (Route 460 Bridge at Glen Lyn). Station 9-NEW030.15 2018 IR Escherichia coli (E.coli) data produce results with two excursions of the WQS 235 cfu/100 mL instantaneous criterion from 49 observations.</p>			

Waters Identified for Delisting Since 2016 Report

<i>Assessment Unit ID</i>	<i>Waterbody Name</i>	<i>Size</i>	<i>Uses Partially / Fully Restored</i>
<i>New River Basin</i>			
VAW-N35R_NEW01A00	New River	6.92 Miles	Recreation

Delisting Summary:

PARTIAL DELIST 2018 - Bacteria - VAW-L29R-01 / N29R-01-BAC (2014)

Initially listed 2006 IR. De-listed 2008 IR. Returns 2014 IR. De-list 2018:

The waters are delisted based on data collections at station 9-NEW030.15 (Route 460 Bridge at Glen Lyn). Station 9-NEW030.15 2018 IR Escherichia coli (E.coli) data produce results with two excursions of the WQS 235 cfu/100 mL instantaneous criterion from 49 observations.

NOTE: Partial delists indicate at least one other pollutant exists on the Assessment Unit (AU). If "PARTIAL" is not specified in the delist statement, the AU is supporting all assessed Uses.