

**F.6 Category 4c Waters**

## Maryland's Combined 2020-2022 Final Integrated Report- Category 4c Waters

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02120201-Lower_Susquehanna_Mainstem	Lower Susq. downstream from Dam to head of tide	River Mainstem	RIVER	Aquatic Life and Wildlife	Not Supporting	FLOW ALTERATION-CHANGES IN DEPTH AND FLOW VELOCITY	2018	Not meeting criteria	Cause	4C	4c	Assessment of flow regime and biological impacts demonstrate that Conowingo Dam operations cause impairment of the aquatic life and wildlife designated use.
MD-02130202	Lower Pocomoke River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2022	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that sulfates are a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130202	Lower Pocomoke River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2022	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that sulfates are a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130203	Upper Pocomoke River	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to agricultural ditching is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02130203	Upper Pocomoke River	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130305	Nanticoke River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2016	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicated that stream channelization due to agricultural ditching is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130306	Marshyhope Creek	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicated that stream channelization due to agricultural ditching is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130404	Upper Choptank River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to agricultural ditching is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02130510	Upper Chester River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to agricultural ditching is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130701	Bush River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicated that channelization is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130701	Bush River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicated that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130704	Bynum Run	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02130705	Aberdeen Proving Ground	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicated that channelization is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130802	Lower Gunpowder Falls	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130805	Loch Raven Reservoir	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130901	Back River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02130901	Back River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130903	Baltimore Harbor	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization is a major stressor affecting biological integrity in this watershed. This listing, along with others, replace the biological listing.
MD-02130903	Baltimore Harbor	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of an adequate riparian buffer is a major stressor affecting biological integrity in this watershed. This listing, along with others, replaces the biological listing.
MD-02130904	Jones Falls	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02130905	Gwynns Falls	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02130906	Patapsco River Lower North Branch	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02131003	South River	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of an adequate riparian buffer is a major stressor affecting biological integrity in this watershed. This listing, along with others, replaces the biological listing.
MD-02140201	Potomac River Upper tidal	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2018	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicated that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02140205	Anacostia River	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02140205	Anacostia River	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02140207	Cabin John Creek	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that stream channelization due to urban development is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02140301-Wadeable_Streams	Potomac River Frederick County	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2018	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of an adequate riparian buffer is a major stressor affecting biological integrity in this watershed. This listing, along with others, replaces the biological listing.



Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
MD-02140302	Lower Monocacy River	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02140502	Antietam Creek	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02140502	Antietam Creek	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that channelization is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02141002	Evitts Creek	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing replaces the biological listing.
MD-02141003	Wills Creek	Non-tidal 8-digit watershed	RIVER	Aquatic Life and Wildlife	Not Supporting	HABITAT ALTERATIONS	2012	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicated that stream channelization due to urban development is a major stressor affecting

Assessment Unit ID	Assessment Unit Name	Location Description	Water Type	Designated Use	Designated Use Attainment	Parameter Name	Cycle First Listed	Parameter Attainment	Parameter Status	EPA Category	MDE Category	Comment
												biological integrity in this watershed. This listing replaces the biological listing.
MD-05020201-Wadeable_Streams	1st through 4th order wadeable streams	1st thru 4th order streams	RIVER	Aquatic Life and Wildlife	Not Supporting	RIPARIAN BUFFER, LACK OF	2014	Not meeting criteria	Cause	4C	4c	The Biostressor analysis indicates that the lack of a riparian buffer is a major stressor affecting biological integrity in this watershed. This listing addresses a portion of the biological listing and therefore replaces it on the list.