Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
A01R-01-BEN - Dutchman Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.94	2018	L
A02R-01-BEN - Catoctin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.53	2020	L
A02R-03-BEN - South Fork Catoctin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.34	2008	L
A02R-05-BEN - Milltown Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.91	2022	L
A03R-02-BAC - Clarks Run							
Recreation	Escherichia coli (E. coli)	5A			5.46	2008	L
A03R-03-BEN - Big Spring Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.49	2018	L
A05R-01-BEN - Wancopin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.44	2008	L
A05R-02-BEN - Jeffries Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.42	2012	L
A05R-03-BEN - Goose Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.58	2018	L
A06R-01-BEN - North Fork Goose Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.7	2010	L
A06R-01-PH - Jacks Run							
Aquatic Life	pH	5A			3.18	2020	L
A06R-02-BEN - Jacks Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.18	2018	L
A07R-02-BEN - North Fork Beaverdam Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.77	2018	L
A08R-01-PCB - Broad Run, Difficult Run, Goose Creek							
Fish Consumption	PCBs in Fish Tissue	5A		39.64	15.39	2006	L
A08R-04-BEN - Tuscarora Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.9	2014	L
A08R-05-BEN - Dry Mill Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.97	2016	L
A08R-06-BEN - Goose Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.54	2018	L
A08R-07-BEN - Cattail Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.41	2018	L
A08R-08-BEN - Sycolin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.99	2018	L
A08R-09-BEN - Howsers Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.11	2020	L
A09R-01-BAC - Unnamed tributary to the Potomac River							
Recreation	Escherichia coli (E. coli)	5A			1.74	2010	L
A09R-01-BEN - Broad Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.94	2006	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.51	2008	H
A09R-01-HG - Broad Run							
Fish Consumption	Mercury in Fish Tissue	5A			2.94	2010	L
A09R-02-BAC - Broad Run							
Recreation	Escherichia coli (E. coli)	5A			3.24	2010	L
Recreation	Escherichia coli (E. coli)	5A			2.94	2014	L
A09R-02-BEN - Broad Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.7	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.76	2018	H
A09R-03-BAC - Broad Run							
Recreation	Escherichia coli (E. coli)	5A			3.7	2012	L
A09R-03-BEN - Horsepen Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.18	2016	H
A09R-04-BAC - South Fork Broad Run							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Recreation	Escherichia coli (E. coli)	5A			5.28	2014	L
A09R-04-BEN - South Fork Broad Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.28	2014	H
A09R-05-BAC - Beaverdam Run							
Recreation	Escherichia coli (E. coli)	5A			3.86	2014	L
A09R-05-BEN - Beaverdam Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.86	2016	H
A09R-06-BAC - Indian Creek							
Recreation	Escherichia coli (E. coli)	5A			3.48	2014	L
A09R-06-BEN - Frying Pan Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.42	2018	H
A09R-07-BAC - Horsepen Run							
Recreation	Escherichia coli (E. coli)	5A			8.18	2016	L
A09R-07-BEN - Russell Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.1	2020	H
A09R-08-BAC - Frying Pan Branch							
Recreation	Escherichia coli (E. coli)	5A			1.42	2018	L
A10R-01-BEN - Sugarland Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.73	2012	L
A11R-01-HEPOXID - Difficult Run							
Fish Consumption	Heptachlor epoxide in Fish Tissue	5A			3.18	2006	L
A11R-02-BEN - Captain Hickory Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.28	2008	L
A11R-03-BEN - Difficult Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.38	2008	L
A11R-04-BEN - Colvin Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.1	2010	L
A11R-05-BEN - Snakeden Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.98	2010	L
A11R-06-BEN - Little Difficult Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.76	2010	L
A11R-07-BEN - Old Courthouse Spring Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.12	2010	L
A11R-08-BAC - Nichols Run							
Recreation	Escherichia coli (E. coli)	5A			4.57	2012	L
A11R-08-BEN - Turkey Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.35	2012	L
A11R-09-BEN - Dead Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.83	2012	L
A11R-10-BEN - Wolftrap Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.73	2018	L
A12E-01-CDANE - Four Mile Run							
Fish Consumption	Chlordane in Fish Tissue	5A	0.05			2010	L
A12R-01-BEN - Pimmit Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.77	2012	L
A12R-02-BEN - Four Mile Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.96	2018	L
A12R-03-CDANE - Pimmit Run							
Fish Consumption	Chlordane	5A			1.65	2006	L
A12R-03-HEPOXID - Pimmit Run							
Fish Consumption	Heptachlor epoxide in Fish Tissue	5A			1.65	2006	L
A13R-01-PCB - Indian Run							
Fish Consumption	PCBs in Fish Tissue	5A			3.18	2006	L
A13R-03-BEN - Holmes Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.09	2004	L
A13R-04-BEN - Tripps Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.7	2004	L
A14E-01-BAC - Little Hunting Creek							
Recreation	Escherichia coli (E. coli)	5A	0.25			2006	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
A14R-01-BAC - Paul Springs Branch							
Recreation	Escherichia coli (E. coli)	5A			3.39	2010	L
A14R-01-BEN - Paul Springs Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.39	2010	L
A14R-02-BAC - Dogue Creek							
Recreation	Escherichia coli (E. coli)	5A			1.41	2014	L
A15E-01-PH - Pohick Bay							
Aquatic Life	pH	5A	0.45			2012	L
A15L-01-HG - Lake Accotink							
Fish Consumption	Mercury in Fish Tissue	5A		73.94		2010	L
A15L-01-PCB - Lake Accotink							
Fish Consumption	PCBs in Fish Tissue	5A		73.94		2010	L
A15R-01-PCB - Accotink Creek							
Fish Consumption	PCBs in Fish Tissue	5A			10.11	2010	L
A16L-01-DO - Burke Lake							
Aquatic Life	Dissolved Oxygen	5A		208.11		2022	L
A16R-01-BAC - Pohick Creek							
Recreation	Escherichia coli (E. coli)	5A			3.78	2006	L
A16R-01-BEN - Pohick Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.62	2014	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.41	2022	L
A16R-02-BAC - Pohick Creek							
Recreation	Escherichia coli (E. coli)	5A			1.78	2006	L
Recreation	Escherichia coli (E. coli)	5A			5.41	2012	L
Recreation	Escherichia coli (E. coli)	5A			2.62	2016	L
A16R-03-BAC - South Run							
Recreation	Escherichia coli (E. coli)	5A			4.16	2016	L
A16R-04-BAC - Middle Run							
Recreation	Escherichia coli (E. coli)	5A			2.85	2016	L
A17R-01-BEN - Cedar Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3	2020	L
A17R-01-DO - Owl Run							
Aquatic Life	Dissolved Oxygen	5A			5.86	2020	L
A18R-02-BEN - Lucky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.49	2008	L
A21R-01-BEN - Catharpin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.81	2012	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.46	2022	H
A21R-01-PCB - Bull Run							
Fish Consumption	PCBs in Fish Tissue	5A			5.83	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			5.74	2006	L
A21R-02-BEN - Bull Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.66	2016	L
A21R-03-BEN - Unnamed Tributary to Bull Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.73	2018	L
A21R-04-BEN - Little Bull Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.13	2018	L
A22R-01-BEN - Flatlick Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.23	2008	L
A22R-01-PCB - Cub Run							
Fish Consumption	PCBs in Fish Tissue	5A			6.9	2018	L
A22R-02-BEN - Big Rocky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.35	2010	L
A22R-03-BEN - Cub Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.9	2012	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.34	2016	L
A22R-04-BEN - Elklick Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.53	2014	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.34	2020	L
A22R-05-BEN - Sand Branch							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.55	2018	H
A23R-03-BEN - Little Rocky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.23	2010	L
A24L-01-PCB - Occoquan Reservoir							
Fish Consumption	PCBs in Fish Tissue	5A		63.12		2006	L
A24L-02-PCB - Occoquan Reservoir							
Fish Consumption	PCBs in Fish Tissue	5A		1250.04		2018	L
A24R-01-BAC - Wolf Run							
Recreation	Escherichia coli (E. coli)	5A			2.5	2006	L
A24R-02-BAC - Sandy Run							
Recreation	Escherichia coli (E. coli)	5A			6.1	2008	L
A24R-02-BEN - Hooes Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.99	2020	L
A24R-03-BAC - Hooes Run							
Recreation	Escherichia coli (E. coli)	5A			0.99	2012	L
A25E-02-BAC - Neabsco Creek							
Recreation	Escherichia coli (E. coli)	5A	0.545			2004	L
A25E-03-BAC - Occoquan River							
Recreation	Escherichia coli (E. coli)	5A	0.086			2014	L
A25E-04-BAC - Marumsco Creek							
Recreation	Escherichia coli (E. coli)	5A	0.025			2012	L
A25E-04-EBEN - Occoquan River							
Aquatic Life	Estuarine Bioassessments	5A	0.286			2006	L
A25R-01-BEN - Giles Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.48	2012	L
A25R-02-BAC - Mills Branch							
Recreation	Escherichia coli (E. coli)	5A			1.72	2014	L
A25R-03-BAC - Giles Run							
Recreation	Escherichia coli (E. coli)	5A			6.48	2014	L
A25R-04-BAC - Marumsco Creek							
Recreation	Escherichia coli (E. coli)	5A			0.54	2014	L
A25R-05-BAC - Unnamed Tributary to Occoquan River							
Recreation	Escherichia coli (E. coli)	5A			1.11	2016	L
A25R-06-BAC - Cow Branch							
Recreation	Escherichia coli (E. coli)	5A			3.99	2020	L
A26L-01-HG - Lake Montclair							
Fish Consumption	Mercury in Fish Tissue	5A		103.54		2010	L
A26R-01-CU - Quantico Creek							
Aquatic Life	Copper	5A			1.47	2020	L
Wildlife	Copper	5A			1.47	2020	L
A26R-02-PH - Unnamed tributary to Potomac River							
Aquatic Life	pH	5A			3.68	2014	L
A26R-08-BAC - South Branch Chopawamsic Creek							
Recreation	Escherichia coli (E. coli)	5A			4.66	2018	L
A27R-01-BAC - Aquia Creek							
Recreation	Escherichia coli (E. coli)	5A			6.36	2006	L
A27R-01-DO - Unnamed tributary to Aquia Creek							
Aquatic Life	Dissolved Oxygen	5A			2.26	2010	L
A27R-02-BAC - Aquia Creek							
Recreation	Escherichia coli (E. coli)	5A			8.82	2012	L
A28E-01-HAB - Aquia Creek							
Recreation	Harmful Algal Blooms	5A	0.041			2022	L
A29E-01-PH - Potomac Creek							
Aquatic Life	pH	5A	0.587			2014	L
A29E-02-BAC - Fairview Beach (Potomac River)							
Recreation	Enterococcus	5R	0.005			2006	L
A29E-03-BAC - Chotank Creek							
Recreation	Enterococcus	5A	0.054			2012	L
A29L-01-PH - Curtis Lake							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	pH	5C		86.14		2022	L
A29R-01-BEN - Unnamed tributary to Long Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.31	2016	L
A29R-02-BEN - Potomac Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.6	2020	L
A29R-05-BAC - Dirt Bridge Run							
Recreation	Escherichia coli (E. coli)	5A			1.82	2018	L
A30E-01-EBEN - Upper Machodoc Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.518			2022	L
A30R-01-DO - Pepper Mill Creek							
Aquatic Life	Dissolved Oxygen	5C			8.67	2010	L
A30R-01-PH - Pepper Mill Creek							
Aquatic Life	pH	5C			8.67	2010	L
A30R-02-DO - Gambo Creek							
Aquatic Life	Dissolved Oxygen	5C			0.95	2016	L
A30R-02-PH - Gambo Creek							
Aquatic Life	pH	5C			0.95	2016	L
A31E-11-BAC - Bridges Creek							
Recreation	Enterococcus	5A	0.182			2012	L
A31R-01-BAC - Pine Hill Creek Watershed							
Recreation	Escherichia coli (E. coli)	5A			34.92	2014	L
A32E-09-EBEN - Lower Machodoc Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.687			2016	L
A32E-20-PCB - Nomini Creek							
Fish Consumption	PCBs in Fish Tissue	5A	4.648			2020	L
A32E-25-EBTOX - Currioman Bay							
Aquatic Life	Sediment Bioassay	5A	0.923			2022	L
A32R-01-DO - Thompson Branch							
Aquatic Life	Dissolved Oxygen	5C			1.6	2006	L
A32R-01-PH - Thompson Branch							
Aquatic Life	pH	5C			1.6	2006	L
A32R-03-PH - XLK - Nomini Creek, UT							
Aquatic Life	pH	5C			1.45	2010	L
A32R-05-PH - Tavern Run							
Aquatic Life	pH	5C			3.28	2012	L
A32R-06-PH - Nontidal Nomini Creek Tributaries							
Aquatic Life	pH	5C			16.39	2014	L
A32R-07-DO - Marshall Creek							
Aquatic Life	Dissolved Oxygen	5C			2.88	2014	L
A32R-08-DO - Barnes Creek							
Aquatic Life	Dissolved Oxygen	5C			1.95	2014	L
A32R-08-PH - Barnes Creek							
Aquatic Life	pH	5C			1.95	2014	L
A32R-09-DO - Mount Pleasant Creek							
Aquatic Life	Dissolved Oxygen	5C			2.27	2014	L
A32R-09-PH - Mount Pleasant Creek							
Aquatic Life	pH	5C			2.27	2014	L
A33E-04-BAC - Lodge Creek							
Recreation	Enterococcus	5A	0.301			2006	L
A33E-08-EBEN - West Yeocomico River							
Aquatic Life	Estuarine Bioassessments	5A	0.34			2018	L
Aquatic Life	Estuarine Bioassessments	5A	0.052			2020	L
A33E-11-PCB - Yeocomico River							
Fish Consumption	PCBs in Fish Tissue	5A	1.878			2020	L
A33L-01-DO - Hampton Hall, Gardy Millpond							
Aquatic Life	Dissolved Oxygen	5C		45.86		2016	L
A33R-02-BAC - Lodge Creek							
Recreation	Escherichia coli (E. coli)	5A			3.45	2014	L
A33R-02-DO - Lodge Creek							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Dissolved Oxygen	5C			3.45	2010	L
A33R-03-DO - Gardner Creek							
Aquatic Life	Dissolved Oxygen	5C			1.4	2010	L
A33R-03-PH - Gardner Creek							
Aquatic Life	pH	5C			1.4	2010	L
A33R-04-PH - XMB - Hampton Hall Creek, UT							
Aquatic Life	pH	5C			3.48	2014	L
A33R-05-DO - XLZ - Hampton Hall Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			3.14	2018	L
A33R-05-PH - XLZ - Hampton Hall Creek, UT							
Aquatic Life	pH	5C			3.14	2014	L
A34E-06-EBEN - Coan River							
Aquatic Life	Estuarine Bioassessments	5A	0.532			2020	L
A34E-38-EBTOX - Bridge Creek							
Aquatic Life	Sediment Bioassay	5A	0.095			2022	L
A34R-02-PH - Little Wicomico River							
Aquatic Life	pH	5C			2.34	2006	L
A34R-03-DO - XLL - Coan Mill Stream, UT							
Aquatic Life	Dissolved Oxygen	5C			2.1	2010	L
B02R-01-BAC - West Strait Creek							
Recreation	Escherichia coli (E. coli)	5A			0.88	2010	L
B02R-05-BAC - South Branch Potomac River							
Recreation	Escherichia coli (E. coli)	5A			10.38	2020	L
B02R-06-BAC - Strait Creek							
Recreation	Escherichia coli (E. coli)	5A			2.78	2006	L
B03R-03-BAC - South Fork South Branch Potomac River							
Recreation	Escherichia coli (E. coli)	5A			2.71	2012	L
B04R-01-BAC - Middle Fork Sleepy Creek							
Recreation	Escherichia coli (E. coli)	5A			2.93	2020	L
B04R-02-BAC - Sleepy Creek							
Recreation	Escherichia coli (E. coli)	5A			7.73	2016	L
B04R-03-BAC - Middle Fork Sleepy Creek X-trib							
Recreation	Escherichia coli (E. coli)	5A			2.56	2014	L
B05R-01-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	5A			13.41	2010	L
B05R-01-TEMP - Back Creek							
Aquatic Life	Temperature	5A			4.2	2022	L
B05R-02-BAC - Little Isaacs Creek							
Recreation	Escherichia coli (E. coli)	5A			9.93	2008	L
B05R-03-BAC - Isaacs Creek							
Recreation	Escherichia coli (E. coli)	5A			2.84	2016	L
B05R-03-BEN - Issacs Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.45	2022	L
B07R-01-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	5A			4.92	2018	L
B08R-01-BEN - Opequon Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			23.22	2010	L
B08R-01-TEMP - Opequon Creek							
Aquatic Life	Temperature	5A			9	2022	L
B11R-02-BEN - Middle River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.37	2022	L
B11R-03-BEN - Jennings Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.11	2022	L
B16L-01-TEMP - Elkhorn Lake							
Aquatic Life	Temperature	5A		52.67		2010	L
B16L-02-TEMP - Staunton Dam Lake							
Aquatic Life	Temperature	5A		20.71		2022	L
B16R-01-PH - North River							
Aquatic Life	pH	5A			4.46	2002	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
B16R-02-PH - North River							
Aquatic Life	pH	5A			10.25	2022	L
B18R-01-BEN - Wolf Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.19	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.12	2004	L
B18R-01-PH - Wolf Run							
Aquatic Life	pH	5A			3.31	2006	L
B18R-06-PH - Rocky Run							
Aquatic Life	pH	5A			1.94	2006	L
B18R-07-PH - Union Springs Run							
Aquatic Life	pH	5A			3.74	2006	L
B20L-01-TEMP - Switzer Lake							
Aquatic Life	Temperature	5A		100.82		2006	L
B20R-01-PH - Dry River							
Aquatic Life	pH	5A			9.54	2002	L
Aquatic Life	pH	5A			0.64	2008	L
B25L-01-BAC - Silver Lake							
Recreation	Escherichia coli (E. coli)	5A		10.52		2018	L
B30R-02-PH - Loves Run							
Aquatic Life	pH	5A			5.64	2006	L
B30R-03-BEN - Pine Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			20.39	2014	L
B31L-01-PH - Coles Run Reservoir							
Aquatic Life	pH	5A		10.85		2008	L
B31R-01-BEN - Back Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.02	2002	L
B31R-02-BEN - Mills Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.14	2002	L
B31R-02-PH - Mills Creek							
Aquatic Life	pH	5A			9.14	2018	L
B31R-04-PH - Coles Run							
Aquatic Life	pH	5A			6.9	2006	L
B31R-05-PH - Johns Run							
Aquatic Life	pH	5A			5.46	2006	L
B31R-06-PH - Kennedy Creek							
Aquatic Life	pH	5A			15.48	2006	L
B31R-07-PH - Orebank Creek							
Aquatic Life	pH	5A			3.56	2006	L
B32R-03-PH - Paine Run							
Aquatic Life	pH	5A			6.75	2004	L
B32R-04-PH - Meadow Run							
Aquatic Life	pH	5A			8.82	2004	L
B33R-02-PH - Deep Run							
Aquatic Life	pH	5A			4.49	2004	L
B33R-03-PH - Lower Lewis Run							
Aquatic Life	pH	5A			3.94	2006	L
B35R-01-BAC - Boone Run							
Recreation	Escherichia coli (E. coli)	5A			13.82	2010	L
B35R-01-DO - Two Mile Run							
Aquatic Life	Dissolved Oxygen	5A			3.52	2022	L
B35R-01-TEMP - Boone Run							
Aquatic Life	Temperature	5A			7.29	2022	L
B35R-02-BAC - Quail Run							
Recreation	Escherichia coli (E. coli)	5A			1.46	2010	L
B35R-03-BEN - Quail Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5C			1.46	2002	L
B35R-04-PH - Two Mile Run							
Aquatic Life	pH	5A			5.06	2006	L
B35R-05-PH - One Mile Run							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	pH	5A			9.17	2010	L
B37R-02-BAC - Line Run							
Recreation	Escherichia coli (E. coli)	5A			4.94	2006	L
B37R-03-BAC - Honey Run							
Recreation	Escherichia coli (E. coli)	5A			5.11	2008	L
B38R-02-BAC - Big Run							
Recreation	Escherichia coli (E. coli)	5A			6.41	2006	L
B39R-03-BEN - East Hawksbill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.38	2008	H
B39R-03-PH - Rocky Branch							
Aquatic Life	pH	5A			4.25	2004	L
B39R-03-TEMP - Pass Run							
Aquatic Life	Temperature	5A			9.48	2010	L
B39R-04-BEN - Dry Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.52	2012	H
B40R-01-BAC - Jeremys Run							
Recreation	Escherichia coli (E. coli)	5A			11.7	2012	L
B40R-02-BAC - Flint Run							
Recreation	Escherichia coli (E. coli)	5A			12.59	2016	L
B40R-03-BAC - Gooney Run							
Recreation	Escherichia coli (E. coli)	5A			20.18	2010	L
B40R-03-TEMP - Gooney Run							
Aquatic Life	Temperature	5A			6.73	2006	L
Aquatic Life	Temperature	5A			7.36	2008	L
B40R-04-BAC - South Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			19.14	2022	L
B41R-04-BAC - South Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			4.47	2010	L
Recreation	Escherichia coli (E. coli)	5A			5.85	2012	L
B42R-01-BEN - North Fork Shenandoah River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.59	2010	L
B45R-05-BEN - North Fork Shenandoah River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.56	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.99	2012	L
B47R-01-BEN - Fridley Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.39	2002	L
B47R-01-PH - Fridley Run							
Aquatic Life	pH	5A			2.39	2006	L
B47R-07-BEN - Dry Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.85	2006	L
B48R-02-BEN - Crooked Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.08	2008	H
B49R-01-BEN - Stony Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.86	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.44	2016	H
B49R-05-TEMP - Little Stony Creek							
Aquatic Life	Temperature	5A			4.91	2012	L
B49R-07-TEMP - Stony Creek							
Aquatic Life	Temperature	5A			4.71	2002	L
Aquatic Life	Temperature	5A			4.69	2004	L
Aquatic Life	Temperature	5A			9.46	2006	L
B50R-03-BEN - Pughs Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7	2012	H
B51R-01-HG - North Fork Shenandoah River							
Fish Consumption	Mercury in Fish Tissue	5A			4.71	2022	L
B51R-02-BAC - North Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			5.42	2008	L
Recreation	Escherichia coli (E. coli)	5A			1.29	2010	L
Recreation	Escherichia coli (E. coli)	5A			3.79	2022	L
B52R-01-PH - Cedar Creek							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	pH	5A			4.83	2014	L
Aquatic Life	pH	5A			3.46	2016	L
B52R-04-BAC - Cedar Creek							
Recreation	Escherichia coli (E. coli)	5A			7.6	2012	L
Recreation	Escherichia coli (E. coli)	5A			9.22	2014	L
B52R-05-BAC - Fall Run							
Recreation	Escherichia coli (E. coli)	5A			15.17	2014	L
B52R-06-BAC - Gravel Springs							
Recreation	Escherichia coli (E. coli)	5A			3.29	2016	L
B53R-01-BAC - Cedar Creek							
Recreation	Escherichia coli (E. coli)	5A			14.36	2008	L
Recreation	Escherichia coli (E. coli)	5A			3.76	2014	L
B54R-01-BAC - Passage Creek							
Recreation	Escherichia coli (E. coli)	5A			10.43	2008	L
Recreation	Escherichia coli (E. coli)	5A			8.65	2022	L
B54R-01-PH - Passage Creek							
Aquatic Life	pH	5A			5.45	2010	L
B55R-04-BAC - Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			12.94	2022	L
B56R-01-DO - Crooked Run							
Aquatic Life	Dissolved Oxygen	5A			2.33	2008	L
B56R-02-BEN - Stephens Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1	2016	L
B57R-03-BAC - Chapel Run							
Recreation	Escherichia coli (E. coli)	5A			11.75	2008	L
B57R-03-BEN - Chapel Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.75	2006	L
B57R-05-BAC - Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			6.44	2014	L
Recreation	Escherichia coli (E. coli)	5A			5	2022	L
B58R-02-BAC - Dog Run							
Recreation	Escherichia coli (E. coli)	5A			6.13	2008	L
B58R-03-BAC - Wheat Spring Branch							
Recreation	Escherichia coli (E. coli)	5A			4.69	2008	L
B58R-04-BAC - Long Marsh Run							
Recreation	Escherichia coli (E. coli)	5A			7.09	2012	L
B58R-05-BAC - Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			7.92	2012	L
B58R-06-BAC - Craig Run							
Recreation	Escherichia coli (E. coli)	5A			4.41	2018	L
B58R-07-BAC - Shenandoah River UT (local name Pigeon's Hollow)							
Recreation	Escherichia coli (E. coli)	5A			3.29	2022	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G01E-02-EBEN - James River							
Aquatic Life	Estuarine Bioassessments	5A	6.547			2012	L
Aquatic Life	Estuarine Bioassessments	5A	25.435			2022	L
G01E-03-PCBFT - James River and Various Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A	62.904			2002	H
Fish Consumption	PCBs in Fish Tissue	5A	1.914			2004	H
Fish Consumption	PCBs in Fish Tissue	5A	183.239		7.53	2006	H
Fish Consumption	PCBs in Fish Tissue	5A	0.019			2006	L
Fish Consumption	PCBs in Fish Tissue	5A	0.002			2008	H
G01L-01-CHLA - Falling Creek Reservoir							
Aquatic Life	Chlorophyll-a	5A		88.38		2018	L
G01R-01-PCB - Goode Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.21	2012	H
G01R-02-PCB - Almond Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			2.11	2012	H
G01R-02-PH - XVO and XVP - Almond Creek, UT							
Aquatic Life	pH	5A			0.84	2004	L
G01R-04-DO - Falling Creek							
Aquatic Life	Dissolved Oxygen	5A			0.99	2008	L
G01R-05-PH - Kingsland Creek							
Aquatic Life	pH	5C			8.55	2006	L
G01R-06-PCB - Gillies Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			5.88	2012	H
G01R-06-PH - Gillies Creek							
Aquatic Life	pH	5A			5.88	2004	L
G01R-07-DO - Redwater Creek							
Aquatic Life	Dissolved Oxygen	5C			2.97	2010	L
G01R-09-DO - XPF - UT to James River							
Aquatic Life	Dissolved Oxygen	5C			0.39	2004	L
G01R-09-PH - XPF - UT to James River							
Aquatic Life	pH	5C			0.39	2004	L
G01R-10-BEN - Pocoshock Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.7	2020	L
G01R-12-PH - XYI - Coles Run, UT							
Aquatic Life	pH	5C			0.94	2006	L
G01R-15-BEN - Proctors Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.27	2010	H
G01R-21-DO - Great Branch							
Aquatic Life	Dissolved Oxygen	5C			4.38	2014	L
G01R-22-CU - XVP - Almond Creek, UT							
Aquatic Life	Copper	5A			0.37	2012	L
Wildlife	Copper	5A			0.37	2012	L
G01R-22-ZN - XVP - Almond Creek, UT							
Aquatic Life	Zinc	5A			0.37	2012	L
Wildlife	Zinc	5A			0.37	2012	L
G02E-04-PCB - James River							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A	3.972			2012	H
Public Water Supply	Polychlorinated biphenyls (PCBs)	5A	1.182			2012	H
G02R-03-DO - Johnson Creek Watershed							
Aquatic Life	Dissolved Oxygen	5C			16.27	2004	L
G02R-03-PH - Johnson Creek Watershed							
Aquatic Life	pH	5C			16.27	2004	L
G02R-09-DO - Roundabout Creek							
Aquatic Life	Dissolved Oxygen	5C			3.96	2014	L
G02R-09-PH - Roundabout Creek							
Aquatic Life	pH	5C			3.96	2014	L
G02R-10-PH - XBE - Roundabout Creek, UT							
Aquatic Life	pH	5C			1.43	2014	L
G02R-11-PH - Turkey Island Creek							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Cause Group - Water Name							
Aquatic Life	pH	5C			7.04	2016	L
G03E-01-PCB - Bailey Creek (tidal), Cattail Creek (tidal)							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A	0.114			2012	H
G03E-03-PH - James River							
Aquatic Life	pH	5A	10.194			2014	L
G03L-01-DO - Harrison Lake							
Aquatic Life	Dissolved Oxygen	5A		60.16		2006	L
G03L-01-HGFT - Harrison Lake							
Fish Consumption	Mercury in Fish Tissue	5A		60.16		2008	L
G03L-01-PH - Harrison Lake							
Aquatic Life	pH	5A		60.16		2006	L
G03R-02-ALD - Bailey Creek							
Fish Consumption	Aldrin in Fish Tissue	5A			6.47	2002	L
G03R-02-BEN - Bailey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.19	2014	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.28	2014	L
G03R-02-PCBFT - Bailey Creek							
Fish Consumption	PCBs in Fish Tissue	5A			4.19	2002	H
Fish Consumption	PCBs in Fish Tissue	5A			2.28	2002	L
G03R-03-PCB - Poythress Run							
Aquatic Life	Polychlorinated biphenyls (PCBs)	5A			0.7	2012	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			0.7	2012	H
Wildlife	Polychlorinated biphenyls (PCBs)	5A			0.7	2012	H
G03R-04-PH - West Run							
Aquatic Life	pH	5C			1.86	2004	L
G03R-05-PCB - XYO - Cattail Creek, UT							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			0.34	2012	H
G03R-06-BEN - XUD - West Run, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.57	2008	L
G03R-06-DO - Upper West Run / East Run Watershed							
Aquatic Life	Dissolved Oxygen	5C			45.28	2016	L
G03R-06-PH - Upper West Run / East Run Watershed							
Aquatic Life	pH	5C			1.57	2006	L
Aquatic Life	pH	5C			43.71	2016	L
G03R-12-PCB - Bailey Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			4.19	2022	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			2.28	2022	L
G04E-02-EBEN - James River							
Aquatic Life	Estuarine Bioassessments	5A	20.408			2004	L
G04L-01-BAC - Sunken Meadow Pond							
Recreation	Escherichia coli (E. coli)	5A		172.86		2016	L
G04L-01-DO - Sunken Meadow Pond							
Aquatic Life	Dissolved Oxygen	5C		172.86		2010	L
G04R-03-MIREX - Bailey Branch							
Aquatic Life	Mirex	5A			5.69	2010	L
Wildlife	Mirex	5A			5.69	2010	L
G05R-01-NH3 - XDD - Chickahominy River, UT							
Aquatic Life	Ammonia, Un-ionized	5A			1.18	2008	L
Wildlife	Ammonia, Un-ionized	5A			1.18	2008	L
G05R-06-DO - Grassy Swamp Creek							
Aquatic Life	Dissolved Oxygen	5C			1.02	2008	L
G05R-07-DO - XDD - Chickahominy River, UT							
Aquatic Life	Dissolved Oxygen	5C			0.56	2006	L
G05R-07-PH - XDD - Chickahominy River, UT							
Aquatic Life	pH	5C			0.56	2006	L
G05R-09-BEN - North Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.66	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.24	2014	H
G05R-09-PH - North Run							
Aquatic Life	pH	5A			3.66	2006	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G05R-10-DO - Upham Brook							
Aquatic Life	Dissolved Oxygen	5A			1.16	2008	L
G05R-11-DO - XXP - Upham Brook, UT							
Aquatic Life	Dissolved Oxygen	5C			1.47	2008	L
G05R-14-BEN - Jordans Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.19	2016	H
G05R-15-DO - XCJ - North Run, UT							
Aquatic Life	Dissolved Oxygen	5C			0.42	2020	L
G05R-15-PH - XCJ - North Run, UT							
Aquatic Life	pH	5C			0.42	2016	L
G05R-16-BEN - Upham Brook							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.15	2016	H
G05R-17-HAB - XBP - Chickahominy River, UT							
Recreation	Harmful Algal Blooms	5A			0.8	2022	L
G05R-18-DO - North Run							
Aquatic Life	Dissolved Oxygen	5A			3.66	2022	L
G06L-04-TEMP - Westhaven Lake							
Aquatic Life	Temperature	5A		15.12		2014	L
G06R-01-HG - Chickahominy River							
Fish Consumption	Mercury in Fish Tissue	5A			7.46	2010	L
G06R-05-DO - Powhite Creek							
Aquatic Life	Dissolved Oxygen	5C			2.14	2014	L
G06R-06-PH - Beaverdam Creek							
Aquatic Life	pH	5C			2.68	2004	L
G06R-07-PH - Boatswain Creek							
Aquatic Life	pH	5C			3.76	2004	L
G06R-11-PH - Bloody Run							
Aquatic Life	pH	5C			1.16	2004	L
G07L-01-DO - Chickahominy Lake							
Aquatic Life	Dissolved Oxygen	5A		1050.47		2002	L
G07L-01-HGFT - Chickahominy Lake							
Fish Consumption	Mercury in Fish Tissue	5A		1050.47		2008	L
G07R-01-DO - Collins Run							
Aquatic Life	Dissolved Oxygen	5C			4.5	2010	L
G07R-01-PH - Collins Run							
Aquatic Life	pH	5C			4.5	2012	L
G07R-02-DO - Rumley Marsh							
Aquatic Life	Dissolved Oxygen	5A			1.32	2002	L
G07R-02-PH - Rumley Marsh							
Aquatic Life	pH	5A			1.32	2010	L
G07R-04-DO - Schiminoe Creek							
Aquatic Life	Dissolved Oxygen	5C			6.23	2012	L
G07R-04-PH - Schiminoe Creek							
Aquatic Life	pH	5C			6.23	2012	L
G07R-06-DO - XWS - Rumley Marsh, UT							
Aquatic Life	Dissolved Oxygen	5A			2.18	2012	L
G07R-06-PH - XWS - Rumley Marsh, UT							
Aquatic Life	pH	5A			2.18	2012	L
G07R-07-PH - XAB - Collins Run, UT							
Aquatic Life	pH	5C			1.72	2012	L
G08E-02-EBEN - Chickahominy River							
Aquatic Life	Estuarine Bioassessments	5A	0.452			2018	L
G08E-07-EBEN - XAC - Chickahominy River, UT							
Aquatic Life	Estuarine Bioassessments	5A	0.017			2010	L
G08R-04-DO - Yarmouth Creek							
Aquatic Life	Dissolved Oxygen	5C			4.09	2012	L
G08R-05-DO - Barrows Creek							
Aquatic Life	Dissolved Oxygen	5C			6.93	2014	L
G09L-01-HGFT - Diascund Creek Reservoir							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Fish Consumption	Mercury in Fish Tissue	5A		1056.13		2010	L
G09R-01-DO - Beaverdam Creek							
Aquatic Life	Dissolved Oxygen	5A			4.34	2002	L
G09R-01-PH - Beaverdam Creek							
Aquatic Life	pH	5A			4.34	2012	L
G09R-02-DO - Diascund Creek							
Aquatic Life	Dissolved Oxygen	5C			6.89	2008	L
G09R-02-PH - Diascund Creek							
Aquatic Life	pH	5C			6.89	2012	L
G09R-03-DO - XAL - Diascund Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			1.23	2012	L
G09R-03-PH - XAL - Diascund Creek, UT							
Aquatic Life	pH	5C			1.23	2012	L
G09R-04-DO - XAK - Diascund Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			2.92	2012	L
G09R-05-DO - XAJ - Diascund Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			2.94	2012	L
G09R-06-DO - XAH - Beaverdam Creek, UT							
Aquatic Life	Dissolved Oxygen	5A			2.23	2012	L
G09R-07-DO - Wahrani Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.66	2014	L
G09R-08-DO - XBY - Beaverdam Creek, UT							
Aquatic Life	Dissolved Oxygen	5A			1.09	2016	L
G10E-05-EBEN - James River (Oligohaline)							
Aquatic Life	Estuarine Bioassessments	5A	26.132			2004	L
Aquatic Life	Estuarine Bioassessments	5A	0.578			2012	L
G10E-06-BAC - College Creek							
Recreation	Enterococcus	5A	0.578			2022	L
G10R-01-BAC - College Run							
Recreation	Fecal Coliform	5A			2.61	2002	L
G10R-02-BEN - Powhatan Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.36	2002	L
G10R-03-BAC - XHC - Dark Swamp, UT							
Recreation	Escherichia coli (E. coli)	5A			1.3	2012	L
G10R-03-DO - XHC - Dark Swamp, UT							
Aquatic Life	Dissolved Oxygen	5A			1.3	2010	L
G10R-05-BAC - Dark Swamp							
Recreation	Escherichia coli (E. coli)	5A			3.16	2014	L
G11E-05-EBEN - Chesapeake Bay segment JMSMHa							
Aquatic Life	Estuarine Bioassessments	5A	93.897			2006	L
Aquatic Life	Estuarine Bioassessments	5A	4.17			2010	L
Aquatic Life	Estuarine Bioassessments	5A	0.07			2018	L
G11E-20-BAC - James River - Hilton Beach Area							
Recreation	Enterococcus	5A	0.11			2012	L
G11E-21-BAC - James River - Huntington Beach Area							
Recreation	Enterococcus	5A	0.008			2006	L
G11E-23-EBEN - Warwick River - Middle-Lower Tidal Portion							
Aquatic Life	Estuarine Bioassessments	5A	0.077			2018	L
G11E-26-SF - Ragged Island Creek							
Shellfishing	Fecal Coliform	5B	0.295			2022	L
G11L-01-CU - Lee Hall Reservoir							
Aquatic Life	Copper	5A		292.14		2004	L
Wildlife	Copper	5A		292.14		2004	L
G11L-01-HG - Lee Hall Reservoir-Lower							
Fish Consumption	Mercury in Fish Tissue	5A		66.49		2010	L
G11L-01-PCB - Lee Hall Reservoir-Lower							
Fish Consumption	PCBs in Fish Tissue	5A		66.49		2010	L
G11L-03-DO - Lone Star Lake I							
Aquatic Life	Dissolved Oxygen	5A		33.2		2022	L
G11L-05-DO - Lee Hall Reservoir							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Dissolved Oxygen	5A		292.14		2008	L
G11L-06-DO - Scotts Factory Pond							
Aquatic Life	Dissolved Oxygen	5A		14.83		2016	L
G11L-07-DO - Lone Star Lake G							
Aquatic Life	Dissolved Oxygen	5A		89.65		2006	L
G11R-02-BEN - Chuckatuck Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.54	2004	L
G11R-03-BAC - Champion Swamp							
Recreation	Escherichia coli (E. coli)	5A			3.17	2010	L
G12L-01-DO - Lake Cohoon							
Aquatic Life	Dissolved Oxygen	5A		454.17		2006	L
G12L-02-DO - Lake Meade							
Aquatic Life	Dissolved Oxygen	5A		489.49		2006	L
G12L-03-CHLA - Speights Run Lake							
Aquatic Life	Chlorophyll-a	5A		120.88		2010	L
G12L-03-DO - Speights Run Lake							
Aquatic Life	Dissolved Oxygen	5A		120.88		2022	L
G12L-04-DO - Lake Kilby							
Aquatic Life	Dissolved Oxygen	5A		200.04		2006	L
G12L-04-TP - Lake Kilby							
Aquatic Life	Phosphorus, Total	5A		200.04		2014	L
G13E-07-PH - Shingle Creek - Tributary to Nansemond R.							
Aquatic Life	pH	5A	0.04			2002	L
G14L-01-DO - Lake Burnt Mills							
Aquatic Life	Dissolved Oxygen	5A		637.99		2006	L
G14L-03-DO - Lake Prince Reservoir							
Aquatic Life	Dissolved Oxygen	5A		715.37		2006	L
G14R-01-PH - Carbell Swamp - Upper							
Aquatic Life	pH	5C			2.95	2002	L
G14R-02-DO - Carbell Swamp - Lower							
Aquatic Life	Dissolved Oxygen	5A			2.88	2008	L
G15E-01-01-EBEN - Deep Creek, Southern Br. Elizabeth R.- Mouth							
Aquatic Life	Estuarine Bioassessments	5A	0.075			2018	L
G15E-01-01-TCDD - Elizabeth River Southern Branch and its tidal tributaries. CBP segment SBEMH.							
Fish Consumption	Dioxin (including 2,3,7,8-TCDD)	5A	3.148			2010	L
G15E-01-BAC - Elizabeth River Mainstem - Middle							
Recreation	Enterococcus	5A	4.005			2022	L
G15E-02-04-EBEN - Eastern Branch Elizabeth River, Broad Creek , Indian River, Steamboat Creek and Unsegmented estuaries in EBEMH							
Aquatic Life	Estuarine Bioassessments	5A	1.764			2004	L
Aquatic Life	Estuarine Bioassessments	5A	0.587			2006	L
G15E-03-01-EBEN - Elizabeth River Mainstem							
Aquatic Life	Estuarine Bioassessments	5A	4.473			2004	L
Aquatic Life	Estuarine Bioassessments	5A	3.445			2010	L
G15E-03-03-EBEN - Scott Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.194			2016	L
G15E-04-02-EBEN - Western Branch Elizabeth River and Unsegmented estuaries in WBEMH							
Aquatic Life	Estuarine Bioassessments	5A	0.561			2006	L
Aquatic Life	Estuarine Bioassessments	5A	2.164			2010	L
G15E-06-01-BAC - James River - King/Lincoln Park Beach Area							
Recreation	Enterococcus	5A	0.009			2006	L
G15E-06-02-BAC - James River - Anderson Park Beach Area							
Recreation	Enterococcus	5A	0.011			2012	L
G15E-06-04-BAC - Willoughby Bay - Beach Area							
Recreation	Enterococcus	5A	0.142			2014	L
G15E-08-EBEN - Willoughby Bay [Less Beach Area]							
Aquatic Life	Estuarine Bioassessments	5A	2.476			2018	L
G15E-09-EBEN - Southern Branch, Elizabeth River - Middle							
Aquatic Life	Estuarine Bioassessments	5A	0.015			2020	L
G15E-10-EBEN - Knitting Mill Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.027			2022	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G15E-11-EBEN - Southern Branch, Elizabeth R. - Middle							
Aquatic Life	Estuarine Bioassessments	5A	0.004			2022	L
H01R-01-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			15.84	2010	L
H02L-01-TEMP - Pedlar Lake							
Aquatic Life	Temperature	5C		117.75		2020	L
H02R-03-TEMP - Pedlar River							
Aquatic Life	Temperature	5C			4.89	2020	L
H03R-01-BEN - Blackwater Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.54	2010	L
H03R-03-BEN - Ivy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			21.45	2010	L
H03R-04-PCB - James River, Slate River							
Fish Consumption	PCBs in Fish Tissue	5A			10.76	2004	H
Fish Consumption	PCBs in Fish Tissue	5A			158.5	2006	H
Fish Consumption	PCBs in Fish Tissue	5A			10.9	2008	H
Fish Consumption	PCBs in Fish Tissue	5A			3.05	2014	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			6.32	2020	H
Wildlife	Polychlorinated biphenyls (PCBs)	5A			6.32	2020	H
H03R-05-BEN - Burton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.48	2010	L
H03R-06-BEN - Judith Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.09	2010	L
H03R-07-BEN - Tomahawk Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.06	2010	L
H05R-01-BAC - James River							
Recreation	Escherichia coli (E. coli)	5A			15.95	2010	L
H05R-08-BAC - Beck Creek							
Recreation	Escherichia coli (E. coli)	5A			6.28	2012	L
H05R-09-BAC - Partridge Creek							
Recreation	Escherichia coli (E. coli)	5A			10.41	2012	L
H05R-10-BAC - Archer Creek							
Recreation	Escherichia coli (E. coli)	5A			7.47	2016	L
H05R-11-BAC - Allens Creek							
Recreation	Escherichia coli (E. coli)	5A			7.18	2016	L
H08R-01-BAC - Davids Creek							
Recreation	Escherichia coli (E. coli)	5A			5.18	2012	L
H09R-01-PH - Montebello Spring Branch							
Aquatic Life	pH	5A			0.13	2004	L
H09R-02-BEN - Hat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.52	2012	H
H09R-04-TEMP - Tye River							
Aquatic Life	Temperature	5A			4.1	2022	L
H09R-05-BEN - Black Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.96	2014	H
H11L-01-BAC - Stonehouse Creek Reservoir							
Recreation	Escherichia coli (E. coli)	5A		33.54		2020	L
H11L-01-DO - Stonehouse Creek Reservoir							
Aquatic Life	Dissolved Oxygen	5A		33.54		2008	L
H11L-01-PH - Stonehouse Creek Reservoir							
Aquatic Life	pH	5A		33.54		2006	L
H11L-02-BAC - Thrashers Creek Reservoir							
Recreation	Escherichia coli (E. coli)	5A		31.95		2020	L
H11L-02-CHLA - Thrashers Creek Reservoir							
Aquatic Life	Chlorophyll-a	5A		31.95		2014	L
H11L-02-PH - Thrashers Creek Reservoir							
Aquatic Life	pH	5A		31.95		2006	L
H11L-03-PH - Mill Creek Reservoir							
Aquatic Life	pH	5A		186.41		2014	L
H12R-01-BEN - Rutledge Creek							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.33	2010	L
H13L-02-PH - Lake Nelson							
Aquatic Life	pH	5A		40.62		2018	L
H14R-01-BEN - Mallorys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.75	2016	L
H14R-01-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			18.58	2010	L
H15R-03-BEN - Taylor Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.99	2008	L
H15R-05-TEMP - South Fork Rockfish River							
Aquatic Life	Temperature	5A			3.74	2022	L
H16R-02-BAC - Beaver Creek							
Recreation	Escherichia coli (E. coli)	5A			7.41	2012	L
H16R-03-BAC - Cove Creek							
Recreation	Escherichia coli (E. coli)	5A			10.47	2012	L
H16R-04-BAC - Rockfish River							
Recreation	Escherichia coli (E. coli)	5A			17.3	2012	L
Recreation	Escherichia coli (E. coli)	5A			6.06	2018	L
H16R-05-BAC - Rockfish River UT							
Recreation	Escherichia coli (E. coli)	5A			2.7	2016	L
H17R-02-BAC - James River							
Recreation	Escherichia coli (E. coli)	5A			18.69	2008	L
Recreation	Escherichia coli (E. coli)	5A			16.33	2012	L
H17R-05-BEN - Totier Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.72	2006	L
H20R-01-BEN - Bear Garden Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.89	2022	L
H20R-02-BAC - South Creek							
Recreation	Escherichia coli (E. coli)	5A			6.67	2014	L
H21L-01-DO - Troublesome Reservoir							
Aquatic Life	Dissolved Oxygen	5A		52.68		2010	L
H21R-01-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.87	2014	L
H21R-02-BEN - Walton Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3	2016	L
H23L-01-CHLA - Lake Albemarle							
Aquatic Life	Chlorophyll-a	5A		37.02		2016	L
H23L-03-HAB - Mint Springs Lake							
Recreation	Harmful Algal Blooms	5A		3.84		2022	L
H23R-01-BEN - Broad Axe Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.32	2004	H
H23R-02-BEN - Lickinghole Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.21	2010	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.73	2010	L
H23R-03-BEN - Mechums River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.17	2004	H
H23R-04-BEN - Slabtown Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.92	2010	H
H23R-06-BEN - Parrott Branch X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.15	2010	H
H23R-07-BEN - Spring Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.49	2012	H
H23R-08-BAC - Stockton Creek							
Recreation	Escherichia coli (E. coli)	5A			12.07	2014	L
H24L-01-DO - Sugar Hollow Reservoir							
Aquatic Life	Dissolved Oxygen	5A		47.46		2022	L
H24R-02-BEN - X-trib to Doyles River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.74	2012	L
H24R-03-BAC - X-trib to Doyles River							
Recreation	Escherichia coli (E. coli)	5A			4.93	2022	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H25R-01-BAC - Buck Mountain Creek							
Recreation	Escherichia coli (E. coli)	5A			10.59	2010	L
H25R-02-BEN - Piney Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.23	2012	L
H26L-01-DO - South Fork Rivanna River Reservoir							
Aquatic Life	Dissolved Oxygen	5A		398.7		2018	L
H26R-01-BAC - Ivy Creek							
Recreation	Escherichia coli (E. coli)	5A			9.51	2014	L
H26R-02-PH - Ivy Creek							
Aquatic Life	pH	5A			5.49	2006	L
H26R-03-BEN - Ivy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.59	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.49	2010	H
H26R-04-BEN - South Fork Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.47	2010	H
H26R-05-BEN - Powell Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.37	2010	H
H26R-06-BEN - Naked Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.83	2010	H
H26R-07-BEN - South Fork Rivanna River X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.21	2010	H
H26R-08-BEN - Fishing Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.54	2012	H
H26R-09-BEN - Little Ivy Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.44	2016	H
H27R-01-BEN - Flat Branch X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.03	2010	L
H27R-02-BEN - Swift Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.91	2012	L
H27R-05-BEN - Marsh Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.66	2010	L
H27R-06-BEN - Blue Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.72	2012	L
H27R-07-BEN - Stanardsville Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.71	2014	L
H27R-09-BEN - North Fork Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.33	2016	L
H27R-11-BEN - Parker Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.73	2022	L
H28R-08-BEN - Biscuit Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.6	2010	L
H28R-09-BEN - Morey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.93	2010	L
H28R-10-BEN - Town Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.2	2010	L
H28R-11-BEN - Meadow Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.78	2010	L
H28R-12-BEN - X-trib to Moores Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.23	2012	L
H28R-13-BEN - X-trib above Ragged Mountain Reservoir							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.29	2018	L
H28R-14-BEN - UT to Meadow Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.41	2018	L
H28R-15-BEN - Cow Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.48	2018	L
H28R-17-BEN - Town Branch UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.81	2022	L
H29R-03-BAC - Buck Island Creek							
Recreation	Escherichia coli (E. coli)	5A			9.17	2008	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H29R-04-BAC - Rivanna River							
Recreation	Escherichia coli (E. coli)	5A			5.92	2022	L
H29R-04-BEN - Carroll Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			18.46	2010	L
H30R-01-BEN - Mechunk Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.04	2012	L
H30R-02-BEN - East Prong Beaverdam Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.7	2012	L
H30R-03-BEN - Jacks Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.17	2012	L
H31R-01-HG - Rivanna River							
Fish Consumption	Mercury in Fish Tissue	5A			8.39	2020	L
H31R-02-BEN - Carys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.21	2010	L
H31R-03-BEN - X-trib to Boston Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.3	2010	L
H31R-04-BEN - X-trib to Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1	2010	L
H31R-05-BAC - Rivanna River							
Recreation	Escherichia coli (E. coli)	5A			8.39	2016	L
H31R-05-BEN - Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.89	2022	L
H31R-06-BAC - Roundabout Creek							
Recreation	Escherichia coli (E. coli)	5A			3.47	2018	L
H32L-01-CHLA - Fluvanna Ruritan Lake							
Aquatic Life	Chlorophyll-a	5A		51.13		2022	L
H32L-01-DO - Fluvanna Ruritan Lake							
Aquatic Life	Dissolved Oxygen	5A		51.13		2012	L
H32R-02-BAC - Middle Fork Cunningham Creek							
Recreation	Escherichia coli (E. coli)	5R			3.41	2006	L
Recreation	Escherichia coli (E. coli)	5R			4.03	2008	L
H32R-02-BEN - Middle Fork Cunningham Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			3.41	2010	L
H32R-03-BAC - Middle Fork Cunningham Creek X-trib							
Recreation	Escherichia coli (E. coli)	5R			3.77	2008	L
H32R-04-BEN - X-trib to North Fork Cunningham Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			0.59	2010	L
H32R-05-BAC - Cunningham Creek North Fork							
Recreation	Escherichia coli (E. coli)	5R			4.19	2020	L
H32R-05-BEN - Cunningham Creek North Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			4.19	2012	L
H32R-06-BAC - Cunningham Creek							
Recreation	Escherichia coli (E. coli)	5R			5.62	2020	L
H32R-06-BEN - Cunningham Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			5.62	2012	L
H32R-07-BAC - South Fork Cunnigham Creek							
Recreation	Escherichia coli (E. coli)	5R			1.59	2020	L
H32R-07-BEN - South Fork Cunnigham Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			1.59	2018	L
H33L-01-CHLA - Powhatan Lake							
Aquatic Life	Chlorophyll-a	5A		61.36		2014	L
H33L-01-DO - Powhatan Lake							
Aquatic Life	Dissolved Oxygen	5A		61.36		2012	L
H33R-02-DO - Deep Creek							
Aquatic Life	Dissolved Oxygen	5C			0.37	2008	L
H33R-07-DO - Muddy Creek							
Aquatic Life	Dissolved Oxygen	5C			3.58	2018	L
H34R-04-BEN - Phils Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.69	2016	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H36L-02-DO - Bear Creek Lake							
Aquatic Life	Dissolved Oxygen	5A		41.11		2022	L
H36R-02-BEN - Randolph Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.81	2008	L
H36R-05-BEN - Reynolds Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.85	2014	L
H36R-06-BEN - Bigger Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.44	2016	L
H36R-07-BEN - Bonbrook Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.7	2018	L
H36R-08-DO - Bear Creek							
Aquatic Life	Dissolved Oxygen	5C			3.68	2018	L
H38R-07-DO - Branch Creek							
Aquatic Life	Dissolved Oxygen	5C			5.51	2008	L
H39R-01-PH - Broad Branch							
Aquatic Life	pH	5A			2.64	2006	L
H39R-05-BEN - Powhite Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.13	2008	L
H39R-06-PCB - Reedy Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.09	2020	H
H39R-06-PH - Reedy Creek							
Aquatic Life	pH	5A			0.36	2010	L
H39R-08-DO - XAB - Salles Creek, UT							
Aquatic Life	Dissolved Oxygen	5A			0.1	2010	L
H39R-08-PH - XAB - Salles Creek, UT							
Aquatic Life	pH	5A			0.1	2010	L
H39R-09-DO - James River - South Channel							
Aquatic Life	Dissolved Oxygen	5A			0.95	2012	L
H39R-10-DO - Bernards Creek							
Aquatic Life	Dissolved Oxygen	5A			8.13	2014	L
H39R-10-PH - Bernards Creek							
Aquatic Life	pH	5C			8.13	2022	L
H39R-11-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			4.37	2010	L
H39R-13-BEN - Stony Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.01	2008	H
H39R-15-BEN - XYT - Stony Run, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.27	2008	H
H39R-16-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A	0.239			2022	L
H39R-17-CDANE - James River							
Fish Consumption	Chlordane in Fish Tissue	5A	0.239			2022	L
H39R-17-DDE - James River							
Fish Consumption	DDE in Fish Tissue	5A	0.239			2022	L
H39R-17-DDT - James River							
Fish Consumption	DDT in Fish Tissue	5A	0.239			2022	L
H39R-19-DO - Deep Run							
Aquatic Life	Dissolved Oxygen	5C			1.5	2012	L
H39R-26-BEN - Dover Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.77	2020	H
H39R-27-BEN - Deep Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.17	2016	H
H39R-28-BEN - Stony Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.36	2016	H
H39R-30-DO - Dover Creek							
Aquatic Life	Dissolved Oxygen	5A			0.93	2018	L
H39R-34-TEMP - Stony Run - Lake Loreine							
Aquatic Life	Temperature	5A			0.31	2022	L
I01R-01-TEMP - Jackson River							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Temperature	5C			5.14	2004	L
Aquatic Life	Temperature	5C			14.88	2010	L
I01R-02-TEMP - Bolar Run							
Aquatic Life	Temperature	5C			2.1	2006	L
I01R-03-BAC - Jackson River							
Recreation	Escherichia coli (E. coli)	5A			13.5	2018	L
Recreation	Escherichia coli (E. coli)	5A			14.88	2020	L
I02R-02-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	5A			15.06	2010	L
I02R-03-TEMP - Little Back Creek							
Aquatic Life	Temperature	5A			15.01	2022	L
I04R-02-TEMP - Jackson River							
Aquatic Life	Temperature	5A			5.15	2020	L
I07R-02-TEMP - Jerrys Run							
Aquatic Life	Temperature	5C			7.82	2022	L
I09L-01-TEMP - Douthat Lake							
Aquatic Life	Temperature	5A		46.68		2022	L
I09R-01-PCB - Jackson River							
Fish Consumption	PCBs in Fish Tissue	5A			12.67	2008	H
I09R-02-BAC - Jackson River							
Recreation	Escherichia coli (E. coli)	5A			3.42	2008	L
Recreation	Escherichia coli (E. coli)	5A			9.25	2010	L
I09R-02-TEMP - Wilson Creek							
Aquatic Life	Temperature	5C			6.75	2004	L
I09R-03-BAC - Jackson River							
Recreation	Escherichia coli (E. coli)	5A			5.28	2020	L
I09R-04-TEMP - Karnes Creek							
Aquatic Life	Temperature	5A			8.09	2022	L
I11R-01-BAC - Potts Creek							
Recreation	Escherichia coli (E. coli)	5A			5.1	2018	L
I12R-01-BAC - Cowpasture River							
Recreation	Escherichia coli (E. coli)	5A			8.31	2016	L
I13R-01-BAC - Bullpasture River							
Recreation	Escherichia coli (E. coli)	5A			12.62	2022	L
I13R-02-TEMP - Bullpasture River							
Aquatic Life	Temperature	5A			11.94	2012	L
I14R-04-PH - Laurel Run							
Aquatic Life	pH	5A			2.04	2006	L
I15R-01-BAC - Stuart Run							
Recreation	Escherichia coli (E. coli)	5A			18.31	2018	L
I16R-01-BAC - Cowpasture River							
Recreation	Escherichia coli (E. coli)	5A			10.11	2022	L
I16R-01-PH - Porters Mill Creek							
Aquatic Life	pH	5A			4.86	2006	L
I17R-02-PH - North Branch Simpson Creek							
Aquatic Life	pH	5C			3.94	2022	L
I21R-02-TEMP - Johns Creek							
Aquatic Life	Temperature	5C			4.43	2020	L
I22R-01-PH - Mill Creek							
Aquatic Life	pH	5A			4.24	2012	L
I22R-01-TEMP - Barbours Creek							
Aquatic Life	Temperature	5C			7.16	2002	L
I26R-01-BEN - Mill Creek, UT (XUL)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.38	2010	L
I27R-01-BAC - James River							
Recreation	Escherichia coli (E. coli)	5A			7.15	2014	L
Recreation	Escherichia coli (E. coli)	5A			9.53	2016	L
I27R-02-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			9.53	2022	L
I27R-02-PCB - James River							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Fish Consumption	PCBs in Fish Tissue	5A			9.53	2020	H
Fish Consumption	PCBs in Fish Tissue	5A			49.79	2022	H
I28R-02-BAC - Elk Creek							
Recreation	Escherichia coli (E. coli)	5A			3.99	2014	L
I28R-03-BAC - James River							
Recreation	Escherichia coli (E. coli)	5A			6.73	2022	L
I29R-01-TEMP - Ramseys Draft							
Aquatic Life	Temperature	5A			10.29	2016	L
I30R-01-BAC - Calfpasture River							
Recreation	Escherichia coli (E. coli)	5A			2.84	2006	L
I30R-03-BAC - Hamilton Branch							
Recreation	Escherichia coli (E. coli)	5A			6.29	2016	L
I30R-03-PH - Piney Branch							
Aquatic Life	pH	5A			2.33	2006	L
I32R-03-BAC - Little Calfpasture River							
Recreation	Escherichia coli (E. coli)	5A			12.36	2010	L
I35R-02-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.14	2016	H
I35R-03-BEN - Woods Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.05	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.28	2020	L
I36R-02-BEN - Moores Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.09	2006	H
I36R-03-PH - Saint Marys River							
Aquatic Life	pH	5A			1.97	2006	L
I36R-05-BEN - Marl Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.16	2012	L
I36R-07-PH - South River							
Aquatic Life	pH	5A			6.34	2018	L
I37R-02-HG - Maury River							
Fish Consumption	Mercury in Fish Tissue	5A			4.58	2022	L
I37R-02-PCB - Maury River							
Fish Consumption	PCBs in Fish Tissue	5A			4.58	2004	H
Fish Consumption	PCBs in Fish Tissue	5A			12.36	2006	H
I38L-01-PH - Lexington Reservoir							
Aquatic Life	pH	5A		22.6		2010	L
J01R-02-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.01	2016	H
J01R-07-BEN - Plum Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.76	2020	H
J01R-09-BEN - Crane Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.19	2010	H
J03L-01-DO - Prince Edward Lake							
Aquatic Life	Dissolved Oxygen	5C		26.38		2018	L
J03L-01-HAB - Prince Edward Lake							
Recreation	Harmful Algal Blooms	5A		26.38		2022	L
J03R-06-BEN - Sandy River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.08	2014	H
J03R-07-BEN - North Branch Sandy River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.4	2020	H
J04R-01-BEN - Bush River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.49	2010	H
J05L-01-HGFT - Briery Creek Lake							
Fish Consumption	Mercury in Fish Tissue	5A		819.67		2020	L
J05R-01-BEN - Briery Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.48	2008	H
J05R-03-BEN - Rice Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.59	2014	H
J06R-03-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.99	2014	H

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
J06R-05-BEN - Big Guinea Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.73	2020	H
J07L-01-CHLA - Amelia Lake							
Aquatic Life	Chlorophyll-a	5A		98.32		2020	L
J09R-04-BEN - Nibbs Creek South Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.87	2014	H
J10R-01-BEN - UT to Appomattox River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.5	2008	L
J10R-02-DO - Goodes Creek							
Aquatic Life	Dissolved Oxygen	5C			2.92	2010	L
J10R-03-DO - Smacks Creek							
Aquatic Life	Dissolved Oxygen	5C			9.07	2012	L
J11L-02-DO - Lake Nottoway (Lee Lake)							
Aquatic Life	Dissolved Oxygen	5A		161.07		2022	L
J11R-03-DO - Bland Creek							
Aquatic Life	Dissolved Oxygen	5C			6.51	2010	L
J11R-04-DO - Cellar Creek							
Aquatic Life	Dissolved Oxygen	5C			2.7	2012	L
J12R-01-BEN - Winticomack Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.07	2010	H
J12R-06-DO - Horsepen Branch							
Aquatic Life	Dissolved Oxygen	5C			4.44	2006	L
J12R-06-PH - Horsepen Branch							
Aquatic Life	pH	5C			4.44	2006	L
J13R-01-DO - Namozine Creek							
Aquatic Life	Dissolved Oxygen	5C			12.91	2016	L
J13R-01-PH - Namozine Creek							
Aquatic Life	pH	5C			12.91	2018	L
J14L-02-DO - Lake Chesdin							
Aquatic Life	Dissolved Oxygen	5A		3164.42		2022	L
J14R-03-DO - Whipponock Creek							
Aquatic Life	Dissolved Oxygen	5C			6.82	2016	L
J15L-01-HAB - Wilcox lake							
Recreation	Harmful Algal Blooms	5A		18.15		2022	L
J15R-02-BEN - Oldtown Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.23	2010	H
J15R-05-BEN - Rohoic Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			13.46	2012	H
J15R-08-BEN - Oldtown Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.23	2018	H
J15R-08-DO - Oldtown Creek							
Aquatic Life	Dissolved Oxygen	5C			6.23	2018	L
J15R-08-PH - Oldtown Creek							
Aquatic Life	pH	5C			6.23	2010	L
J16R-02-DO - Blackman Creek							
Aquatic Life	Dissolved Oxygen	5C			4.57	2004	L
J16R-03-PH - Horsepen Creek							
Aquatic Life	pH	5C			3.58	2018	L
J17L-01-DO - Swift Creek Lake							
Aquatic Life	Dissolved Oxygen	5A		107.74		2006	L
J17R-01-BEN - Swift Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.26	2010	H
J17R-01-DO - Swift Creek							
Aquatic Life	Dissolved Oxygen	5A			7.26	2002	L
J17R-05-PH - Church Branch							
Aquatic Life	pH	5C			2.64	2010	L
J17R-06-BEN - Nuttree Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.58	2012	H
J17R-06-DO - Nuttree Branch							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Dissolved Oxygen	5A			5.58	2010	L
J17R-07-PH - Second Branch							
Aquatic Life	pH	5C			6.22	2010	L
J17R-09-BEN - Swift Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5C			2.88	2010	H
J17R-09-DO - Swift Creek							
Aquatic Life	Dissolved Oxygen	5C			2.88	2022	L
J17R-11-DO - Long Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.73	2016	L
J17R-11-PH - Long Swamp							
Aquatic Life	pH	5C			3.73	2010	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Rappahannock River Basin

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E01R-01-BEN - Thumb Run, East Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.59	2012	L
E01R-02-BEN - Unnamed Tributary to Thumb Run, West Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.8	2014	L
E01R-03-BEN - Hittles Mill Stream							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.83	2020	L
E02R-01-BEN - Great Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.39	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.82	2012	L
E03R-01-BEN - Popham Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.22	2018	L
E03R-01-TEMP - Hughes River							
Aquatic Life	Temperature	5A			3.21	2008	L
E04R-01-TEMP - Hazel River							
Aquatic Life	Temperature	5A			3.64	2016	L
Aquatic Life	Temperature	5A			6.78	2018	L
E05R-01-BEN - Thornton River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.87	2010	L
E05R-02-BEN - Rush River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.78	2022	L
E08R-01-BEN - Marsh Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.01	2012	L
E09R-01-BEN - Mountain Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			19.91	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.63	2020	L
E09R-01-PCB - Mountain Run							
Fish Consumption	PCBs in Fish Tissue	5A			19.91	2006	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			6.65	2018	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			13.26	2020	H
E09R-02-BEN - Jonas Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.78	2012	L
E09R-02-PCB - Mountain Run							
Fish Consumption	PCBs in Fish Tissue	5A			4.63	2016	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			4.63	2018	H
E09R-03-BEN - Unnamed tributary to Jonas Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.54	2020	L
E09R-03-PCB - Unnamed tributaries to Mountain Run							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.72	2020	H
E09R-04-BEN - Flat Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.23	2022	L
E10R-01-BEN - Sumerduck Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.86	2012	L
E10R-04-BAC - Sumerduck Run							
Recreation	Escherichia coli (E. coli)	5A			1.86	2016	L
E11R-01-BEN - Conway River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3	2010	L
E11R-01-TEMP - Garth Run							
Aquatic Life	Temperature	5A			5.82	2018	L
E12R-01-BEN - Rippin Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.6	2012	L
E13R-01-BEN - Beautiful Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.51	2012	L
E14R-01-BEN - White Oak Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.19	2018	L
E14R-01-TEMP - Robinson River							
Aquatic Life	Temperature	5A			3.01	2004	L
E14R-02-TEMP - Rose River							
Aquatic Life	Temperature	5A			2.58	2006	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E15R-02-BEN - Deep Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.48	2018	L
E15R-03-BEN - Great Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.31	2012	L
E15R-04-BEN - Little Dark Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.54	2020	L
E16R-01-BEN - Cedar Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.26	2018	L
E17R-01-BEN - Brook Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.51	2012	L
E17R-02-BEN - Mountain Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.11	2018	L
E18R-01-HG - Rapidan River							
Fish Consumption	Mercury in Fish Tissue	5A			9.81	2010	L
E19L-01-HG - Motts Run Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		137.18		2008	L
E19R-01-BAC - Horsepen Run							
Recreation	Escherichia coli (E. coli)	5A			5.71	2014	L
E19R-02-BAC - Mine Run							
Recreation	Escherichia coli (E. coli)	5A			4.01	2014	L
E20E-03-PCB - Rappahannock River							
Fish Consumption	PCBs in Fish Tissue	5A	0.139			2002	L
Fish Consumption	PCBs in Fish Tissue	5A	3.765		3.32	2004	L
Fish Consumption	PCBs in Fish Tissue	5A	125.001		9.25	2006	L
Fish Consumption	PCBs in Fish Tissue	5A	0.042			2008	L
E20R-01-BEN - Falls Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.36	2012	L
E20R-02-BEN - Hazel Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.73	2012	L
E20R-03-BEN - Little Falls Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.93	2016	L
E20R-04-PH - Deep Run							
Aquatic Life	pH	5C			1.56	2012	L
E20R-05-PH - Unnamed tributary to Massaponax Creek							
Aquatic Life	pH	5C			1.27	2016	L
E21R-01-PH - Portobago Creek							
Aquatic Life	pH	5C			7	2020	L
E21R-02-BEN - Ware Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.07	2008	L
E21R-02-PH - Ware Creek							
Aquatic Life	pH	5C			3.07	2004	L
E21R-03-BAC - Gingoteague Creek							
Recreation	Escherichia coli (E. coli)	5A			1.49	2008	L
E21R-03-BEN - Gingoteague Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.49	2012	L
E21R-04-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.59	2008	L
E21R-05-BEN - White Oak Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.52	2014	L
E21R-05-PH - Mount Creek							
Aquatic Life	pH	5C			4.46	2008	L
E21R-10-PH - White Oak Run							
Aquatic Life	pH	5C			6.52	2014	L
E22E-01-EBEN - Rappahannock River							
Aquatic Life	Estuarine Bioassessments	5A	6.302			2010	L
E22E-02-EBEN - Rappahannock River							
Aquatic Life	Estuarine Bioassessments	5A	110.197			2006	L
Aquatic Life	Estuarine Bioassessments	5A	0.042			2008	L
E22E-08-CHLR - Rappahannock River							
Aquatic Life	Chloride	5C	5.133			2004	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Wildlife	Chloride	5C	5.133			2004	L
E22E-11-PH - Occupacia Creek							
Aquatic Life	pH	5C	0.668			2022	L
E22E-12-PH - Waterview Creek							
Aquatic Life	pH	5C	0.038			2022	L
E22R-04-PH - Elmwood Creek and Tributary XHY							
Aquatic Life	pH	5C			9.07	2006	L
E22R-05-PH - Baylors Creek							
Aquatic Life	pH	5C			5.89	2008	L
E22R-06-DO - Peedee Creek							
Aquatic Life	Dissolved Oxygen	5C			3.3	2010	L
E22R-06-PH - Peedee Creek							
Aquatic Life	pH	5C			3.3	2008	L
E22R-08-DO - Stillwater Creek							
Aquatic Life	Dissolved Oxygen	5C			3.53	2014	L
E22R-08-PH - Stillwater Creek							
Aquatic Life	pH	5C			3.53	2014	L
E22R-10-PH - Mill Swamp							
Aquatic Life	pH	5C			0.73	2014	L
E22R-11-PH - Smoots Mill Run, UT							
Aquatic Life	pH	5C			1.67	2014	L
E23L-01-HG - Chandlers Millpond							
Fish Consumption	Mercury in Fish Tissue	5A		47.99		2008	L
E23R-07-BEN - Ruin Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.54	2014	L
E23R-12-DO - Mussell Swamp							
Aquatic Life	Dissolved Oxygen	5C			5.13	2006	L
E23R-16-BEN - Church Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.24	2008	L
E23R-20-DO - Scates Millstream							
Aquatic Life	Dissolved Oxygen	5C			2.89	2014	L
E23R-20-PH - Scates Millstream							
Aquatic Life	pH	5C			2.89	2014	L
E23R-22-PCB - Mount Landing Creek							
Fish Consumption	PCBs in Fish Tissue	5A			1.16	2020	L
E24E-02-EBTOX - Totuskey Creek							
Aquatic Life	Estuarine Bioassessments	5A	1.068			2006	L
E24R-01-DO - Bookers Mill Stream							
Aquatic Life	Dissolved Oxygen	5C			6.54	2012	L
E24R-03-PH - Muddy Gut							
Aquatic Life	pH	5C			2.64	2008	L
E24R-05-PH - Branham Mill Swamp							
Aquatic Life	pH	5C			3.66	2012	L
E24R-06-DO - Richardson Creek and Tributaries							
Aquatic Life	Dissolved Oxygen	5C			17.22	2012	L
E24R-06-PH - Richardson Creek and Tributaries							
Aquatic Life	pH	5C			17.22	2012	L
E24R-08-PH - XHL - Bookers Mill Stream, UT							
Aquatic Life	pH	5C			2.01	2012	L
E24R-10-DO - Bellview Creek							
Aquatic Life	Dissolved Oxygen	5C			3.31	2020	L
E24R-10-PH - Bellview Creek							
Aquatic Life	pH	5C			3.31	2020	L
E25E-31-PCB - Urbanna Creek							
Fish Consumption	PCBs in Fish Tissue	5A	0.452			2020	L
E25R-02-DO - Lagrange Creek							
Aquatic Life	Dissolved Oxygen	5C			2.5	2010	L
E25R-04-DO - South Branch Lagrange Creek							
Aquatic Life	Dissolved Oxygen	5A			0.4	2012	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Rappahannock River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E25R-17-DO - Masons Mill Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.37	2008	L
E26E-04-EBEN - Corrotoman River							
Aquatic Life	Estuarine Bioassessments	5A	7.111			2014	L
Aquatic Life	Estuarine Bioassessments	5A	2.247			2022	L
E26E-24-BAC - Whiting Creek							
Recreation	Enterococcus	5A	0.195			2012	L
E26E-57-EBTOX - Eastern Branch Carter Creek							
Aquatic Life	Sediment Bioassay	5A	0.084			2022	L
E26R-03-DO - Norris Prong							
Aquatic Life	Dissolved Oxygen	5C			2.47	2008	L
E26R-04-DO - Browns Creek							
Aquatic Life	Dissolved Oxygen	5C			2.59	2008	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L01R-01-TEMP - Roanoke River, South Fork							
Aquatic Life	Temperature	5C			6.27	2004	L
Aquatic Life	Temperature	5C			6.43	2010	L
Aquatic Life	Temperature	5C			4.61	2012	L
L01R-02-TEMP - Bottom Creek							
Aquatic Life	Temperature	5C			4.51	2008	L
L01R-03-TEMP - Goose Creek							
Aquatic Life	Temperature	5C			2.3	2020	L
L02R-01-PH - Bradshaw Creek							
Aquatic Life	pH	5C			10.37	2010	L
L03R-01-TEMP - Roanoke River							
Aquatic Life	Temperature	5C			13.12	2002	L
L04R-01-HG - Roanoke River							
Fish Consumption	Mercury in Fish Tissue	5A			10.31	2010	L
L04R-03-BEN - Roanoke River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.17	2008	H
L04R-10-BEN - Wolf Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.52	2018	H
L05R-01-BEN - Tinker Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.37	2010	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.51	2018	H
L06R-01-BEN - Back Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.95	2014	L
L07L-01-PH - Beaverdam Reservoir							
Aquatic Life	pH	5C		66.93		2012	L
L07R-01-BEN - Beaverdam Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.35	2010	H
L07R-02-BAC - Merriman Run, UT (XUO)							
Recreation	Escherichia coli (E. coli)	5A			0.89	2020	L
L07R-04-BEN - Lynville Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.85	2020	L
L08R-01-TEMP - Green Creek							
Aquatic Life	Temperature	5C			4.1	2012	L
L08R-05-BEN - Little Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.88	2002	L
L08R-06-BEN - Teels Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.76	2002	L
L08R-07-BEN - Buck Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.77	2008	L
L09R-01-BEN - Maggodee Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.48	2002	L
L09R-01-TEMP - Maggodee Creek							
Aquatic Life	Temperature	5C			4.44	2008	L
L09R-02-BEN - Maggodee Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.43	2016	L
L10L-01-HG - Blackwater River							
Fish Consumption	Mercury in Fish Tissue	5A		524.8	8.23	2010	L
L10R-01-BEN - Blackwater River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.23	2008	L
L11R-03-PH - Jack-O-Lantern Branch, UT (XON)							
Aquatic Life	pH	5C			0.61	2020	L
L12L-01-HG - Smith Mountain Lake							
Fish Consumption	Mercury in Fish Tissue	5A		6480.23		2010	L
L12R-01-BAC - Craddock Creek (XME)							
Recreation	Escherichia coli (E. coli)	5A			1.24	2012	L
L13L-03-DO - Leesville Lake							
Aquatic Life	Dissolved Oxygen	5A		2327.08		2022	L
L14R-01-BEN - Pigg River							

Roanoke and Yadkin River Basins continued...

Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Cause Group - Water Name							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.46	2012	H
L14R-02-BEN - Storey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.83	2016	L
L15R-03-BEN - Upper North Fork Little Chestnut Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.85	2022	L
L17R-01-BEN - Poplar Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.57	2008	H
L18R-01-BEN - Fryingpan Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.56	2006	H
L18R-05-BEN - Jonnikin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.53	2020	L
L19R-01-HG - Roanoke (Staunton) River, Cub Creek, Kerr Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		31884.6	97.46	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			14.6	2018	L
L19R-02-BEN - Lynch Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.9	2010	L
L19R-03-BEN - Reed Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.91	2010	L
L19R-04-BEN - Roanoke (Staunton) River, Unnamed tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.1	2010	L
L21R-01-BEN - Wolf Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.13	2012	L
L21R-02-BEN - Bore Auger Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.73	2014	L
L21R-05-BEN - Stony Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.43	2022	L
L24R-02-BEN - Oslin Creek, U.T. (XOJ)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.75	2018	L
L26R-01-HG - Little Otter River							
Fish Consumption	Mercury in Fish Tissue	5A			14.62	2010	L
L27R-03-BEN - Falling Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.09	2018	L
L29R-01-BEN - Flat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.21	2010	L
L31R-01-BEN - East Little Seneca Creek, Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.5	2008	L
L34R-07-BEN - Entry Creek, Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.69	2012	L
L35R-01-BEN - Mollys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2	2010	L
L36R-04-BEN - Armistead Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.2	2014	L
L36R-05-BEN - Turnip Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.54	2022	L
L37R-05-BEN - Terrys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.14	2022	L
L38L-01-DO - Conner Lake							
Aquatic Life	Dissolved Oxygen	5A		101.93		2018	L
L39R-03-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.32	2008	H
L39R-05-HG - Roanoke Creek							
Fish Consumption	Mercury in Fish Tissue	5A			10.51	2010	L
L39R-07-BEN - Little Roanoke Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.16	2010	H
L39R-08-BEN - Bush Ford Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.1	2010	L
L39R-09-BEN - Spencer Creek, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.9	2014	H
L40R-01-BEN - Berles Creek							

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.28	2016	L
L40R-06-BEN - Buffalo Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.36	2014	L
L42L-01-DO - Talbott Reservoir							
Aquatic Life	Dissolved Oxygen	5C		140.51		2020	L
L42L-01-HG - Talbott Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		140.51		2010	L
L42L-01-TEMP - Talbott Reservoir							
Aquatic Life	Temperature	5C		140.51		2020	L
L42L-06-PH - Townes Reservoir							
Aquatic Life	pH	5A		28.13		2018	L
L42R-01-TEMP - Dan River							
Aquatic Life	Temperature	5C			9.67	2002	L
Aquatic Life	Temperature	5C			5.81	2008	L
L43R-01-TEMP - South Mayo River							
Aquatic Life	Temperature	5C			4.74	2010	L
L45R-01-HG - South Mayo River							
Fish Consumption	Mercury in Fish Tissue	5A			10.98	2010	L
L47R-01-BEN - Horse Pasture Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.45	2010	L
L50R-01-TEMP - Smith River							
Aquatic Life	Temperature	5C			9.52	2002	L
Aquatic Life	Temperature	5C			1.45	2018	L
L51L-01-DO - Philpott Reservoir							
Aquatic Life	Dissolved Oxygen	5A		1221.36		2002	L
Aquatic Life	Dissolved Oxygen	5A		1592.19		2020	L
L51L-01-HG - Philpott Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		2813.55		2010	L
L51L-01-TEMP - Philpott Reservoir							
Aquatic Life	Temperature	5A		2813.55		2020	L
L51R-01-TEMP - Rennet Bag Creek							
Aquatic Life	Temperature	5C			11.55	2002	L
L51R-02-TEMP - Shooting Creek							
Aquatic Life	Temperature	5C			7.33	2008	L
L51R-03-TEMP - Smith River							
Aquatic Life	Temperature	5C			6.43	2016	L
L52R-04-BEN - Smith River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.87	2020	L
L53R-01-TEMP - Smith River							
Aquatic Life	Temperature	5A			6.52	2016	L
L53R-03-BEN - Beaver Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.98	2008	L
L53R-04-BEN - Jones Creek, UT (XMP)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2	2006	L
L53R-05-BEN - Beaver Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.3	2016	L
L53R-06-BEN - Daniels Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.99	2016	L
L53R-07-BEN - Jones Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.36	2016	L
L54R-02-BEN - Machine Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.69	2010	L
L54R-03-BEN - Mulberry Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.6	2010	L
L57R-04-BEN - Cascade Creek and East Branch Cascade Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.82	2020	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.9	2022	L
L57R-05-BEN - Pumpkin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.73	2020	L
L57R-06-HG - Dan River							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Fish Consumption	Mercury in Fish Tissue	5A			4.17	2020	L
L59R-02-BEN - Sandy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.52	2022	L
L60R-01-HG - Dan River, Banister River and Hyco River							
Fish Consumption	Mercury in Fish Tissue	5A		1655.18	57.48	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			5.45	2010	L
L60R-01-PCB - Dan River, Banister River and Hyco River							
Fish Consumption	PCBs in Fish Tissue	5A		1655.18	34.15	2002	L
Fish Consumption	PCBs in Fish Tissue	5A			14.8	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			8.53	2006	L
Fish Consumption	PCBs in Fish Tissue	5A			5.45	2010	L
Fish Consumption	PCBs in Fish Tissue	5A			17.48	2018	L
Fish Consumption	PCBs in Fish Tissue	5A			6.69	2022	L
L60R-02-BEN - Pumpkin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.28	2012	L
L60R-03-BEN - Cane Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.25	2012	L
L60R-04-BEN - Rutledge Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.37	2012	L
L61R-01-BEN - Fall Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.97	2014	L
L61R-01-HG - Fall Creek							
Fish Consumption	Mercury in Fish Tissue	5A			11.97	2010	L
L61R-02-BEN - Lawless Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.72	2018	L
L62R-07-BEN - Wolfe Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.87	2008	L
L62R-10-BEN - Sandy Creek, Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.3	2016	L
L63R-01-BEN - Birch Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			20.16	2016	L
L64R-02-BEN - Miry Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			13.08	2020	L
L64R-03-BEN - Grassy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.83	2008	H
L64R-04-BEN - Poplar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.05	2010	H
L64R-05-BEN - Reedy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.92	2010	H
L65R-02-BEN - Bearskin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.57	2010	L
L65R-04-BEN - Strawberry Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.96	2014	L
L66L-02-DO - Roaring Fork Reservoir							
Aquatic Life	Dissolved Oxygen	5A		19.58		2008	L
L66R-04-BEN - Cherrystone Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.1	2022	L
L67R-03-BEN - Elkhorn Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.92	2010	L
L67R-04-BEN - Bradley Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.47	2016	L
L67R-06-BEN - Shockoe Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.51	2022	L
L68R-01-BEN - Whitehorn Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.11	2016	L
L69R-02-BEN - Flybow Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.14	2022	L
L70R-02-BEN - Sweden Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.64	2014	L
L70R-03-BEN - Bar Branch							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.04	2016	L
L71L-01-HG - Banister Lake							
Fish Consumption	Mercury in Fish Tissue	5A		351.84		2022	L
L71R-05-BEN - Polecat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.71	2016	L
L72R-01-BAC - Terrible Creek							
Recreation	Escherichia coli (E. coli)	5A			4.83	2014	L
L72R-01-BEN - Terrible Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.83	2014	L
L73R-03-DO - Peter Creek							
Aquatic Life	Dissolved Oxygen	5A			6.61	2016	L
L74R-04-DO - Big Bluewing Creek							
Aquatic Life	Dissolved Oxygen	5A			11.24	2008	L
L74R-05-BEN - Bowes Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.44	2008	L
L74R-08-BEN - Little Bluewing Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.92	2018	L
L75L-01-PCB - Kerr Reservoir							
Fish Consumption	PCBs in Fish Tissue	5A		31884.6		2002	L
L75L-02-DO - Kerr Reservoir							
Aquatic Life	Dissolved Oxygen	5A		24902.92		2022	L
L75R-03-BEN - Beech Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.7	2016	L
L75R-04-BEN - Rocky Branch, Upper							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.08	2022	L
L76L-01-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	5A		358.96		2020	L
L76R-01-BEN - Little Buffalo Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.51	2012	L
L76R-02-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	5A			5.68	2018	L
L76R-02-BEN - Buffalo Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.68	2018	L
L77R-02-BEN - Bluestone Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			13.73	2014	L
L77R-03-BEN - Devils Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.57	2022	L
L78R-03-BEN - Allen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.28	2016	L
L78R-04-BEN - Cox Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.81	2008	L
L78R-04-DO - Cox Creek							
Aquatic Life	Dissolved Oxygen	5A			10.81	2004	L
L78R-04-PH - Cox Creek							
Aquatic Life	pH	5A			10.81	2006	L
L78R-06-BEN - Layton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.65	2012	H
L78R-07-DO - Kettles Creek							
Aquatic Life	Dissolved Oxygen	5A			5.48	2012	L
L79L-02-CHLA - Lake Gordon							
Aquatic Life	Chlorophyll-a	5A		107.48		2016	L
L79L-02-HG - Lake Gordon							
Fish Consumption	Mercury in Fish Tissue	5A		107.48		2010	L
L79R-01-DO - Flat Creek							
Aquatic Life	Dissolved Oxygen	5A			1.69	2006	L
L79R-03-BAC - Miles Creek							
Recreation	Escherichia coli (E. coli)	5A			5.98	2016	L
L80L-01-HG - Lake Gaston							
Fish Consumption	Mercury in Fish Tissue	5A		4440.95	5.69	2022	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L80L-01-PCB - Lake Gaston							
Fish Consumption	PCBs in Fish Tissue	5A		4440.95	5.69	2004	L
L80L-02-DO - Lake Gaston							
Aquatic Life	Dissolved Oxygen	5A		1369.25		2022	L
L80R-01-BEN - Great Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.69	2020	L
L81R-02-DO - Lizard Creek							
Aquatic Life	Dissolved Oxygen	5A			2.73	2022	L
L81R-03-BAC - Little Poplar Creek							
Recreation	Escherichia coli (E. coli)	5A			6.51	2016	L
L81R-03-BEN - Little Poplar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.51	2020	L
L82R-01-BAC - Pea Hill Creek							
Recreation	Escherichia coli (E. coli)	5A			4.86	2016	L
M02L-01-DDD - Lovills Creek Lake							
Fish Consumption	DDD (Dichlorodiphenyldichloroethane)	5A		42.46		2010	L
M02L-01-DDE - Lovills Creek Lake							
Fish Consumption	DDE (Dichlorodiphenyldichloroethylene)	5A		42.46		2010	L
M02L-01-DDT - Lovills Creek Lake							
Fish Consumption	DDT in Fish Tissue	5A		42.46		2010	L
M02L-01-HG - Lovills Creek Lake							
Fish Consumption	Mercury in Fish Tissue	5A		42.46		2010	L
M02R-01-BAC - Lovills Creek, Stewarts Creek and Pauls Creek							
Recreation	Escherichia coli (E. coli)	5A			2.16	2008	L
Recreation	Escherichia coli (E. coli)	5A			2.06	2010	L
Recreation	Escherichia coli (E. coli)	5A			4.27	2020	L
M03R-01-BAC - Ararat River							
Recreation	Escherichia coli (E. coli)	5A			6.14	2010	L
M03R-01-HG - Ararat River							
Fish Consumption	Mercury in Fish Tissue	5A			6.14	2010	L
M03R-02-BAC - Johnson Creek							
Recreation	Escherichia coli (E. coli)	5A			9.16	2014	L

Chowan River and Dismal Swamp Basins

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K01R-01-BEN - Middle Meherrin River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.26	2014	L
K01R-03-BEN - Finneywood Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.12	2008	L
K01R-04-BEN - Blackstone Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.47	2018	L
K01R-05-BEN - Kitts Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.76	2020	L
K02R-01-BEN - North Meherrin River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.55	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.64	2014	L
K02R-04-BEN - Couches Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.38	2010	L
K03R-01-BEN - Flat Rock Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			20.09	2014	L
K03R-06-BEN - Mason Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.05	2014	L
K05R-05-DO - Hays Creek							
Aquatic Life	Dissolved Oxygen	5C			6.39	2010	L
K05R-06-BEN - Little Genito Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.06	2010	L
K07R-03-BEN - Rocky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			21.28	2008	L
K08L-01-HGFT - Emporia Lake (Meherrin Reservoir)							
Fish Consumption	Mercury in Fish Tissue	5A		263.68		2014	L
K08L-02-CHLA - Brunswick Lake							
Aquatic Life	Chlorophyll-a	5A		160.33		2016	L
K08L-02-DO - Brunswick Lake							
Aquatic Life	Dissolved Oxygen	5A		160.33		2006	L
K08R-03-BAC - Wilson Creek							
Recreation	Escherichia coli (E. coli)	5A			2.75	2012	L
K08R-03-BEN - Wilson Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.75	2016	L
K08R-04-BAC - XII - UT to Dukes Branch							
Recreation	Escherichia coli (E. coli)	5A			1.71	2016	L
K08R-05-BAC - Dukes Branch							
Recreation	Escherichia coli (E. coli)	5A			2.58	2016	L
K08R-06-BAC - Greensville Creek							
Recreation	Escherichia coli (E. coli)	5A			3.78	2020	L
K09R-01-BAC - Meherrin River							
Recreation	Escherichia coli (E. coli)	5A			26.76	2016	L
Recreation	Escherichia coli (E. coli)	5A			2.27	2018	L
K09R-01-HGFT - Meherrin River, Fontaine Creek, Mill Swamp							
Fish Consumption	Mercury in Fish Tissue	5A			67.76	2010	L
K09R-01-PCBFT - Meherrin River							
Fish Consumption	PCBs in Fish Tissue	5A			26.76	2004	L
K10R-01-DO - Rattlesnake Creek							
Aquatic Life	Dissolved Oxygen	5C			17.19	2010	L
K10R-02-DO - Fontaine Creek (Fountains Creek)							
Aquatic Life	Dissolved Oxygen	5C			16.64	2010	L
K10R-03-DO - Quarrel Creek							
Aquatic Life	Dissolved Oxygen	5C			3.34	2010	L
K10R-03-PH - Quarrel Creek							
Aquatic Life	pH	5C			3.34	2016	L
K10R-04-DO - Beddingfield Creek							
Aquatic Life	Dissolved Oxygen	5C			4.18	2010	L
K10R-06-PH - Rocky Run							
Aquatic Life	pH	5C			0.87	2010	L

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K11R-05-DO - Beaverpond Creek							
Aquatic Life	Dissolved Oxygen	5C			3.35	2010	L
K11R-06-PH - XGV - Fontaine Creek, UT							
Aquatic Life	pH	5C			1.96	2010	L
K11R-08-DO - XGU - Fontaine Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			1.83	2010	L
K11R-08-PH - XGU - Fontaine Creek, UT							
Aquatic Life	pH	5C			1.83	2010	L
K13R-05-BAC - Meherrin River (Lower)							
Recreation	Escherichia coli (E. coli)	5A			4.53	2020	L
K14L-02-HGFT - Nottoway Falls Lake							
Fish Consumption	Mercury in Fish Tissue	5A		32.2		2010	L
K14R-02-BEN - Big Hounds Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.34	2020	L
K14R-04-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			7.27	2020	L
K14R-05-BAC - Falls Creek							
Recreation	Escherichia coli (E. coli)	5A			5.29	2020	L
K14R-06-BEN - UT to Big Hounds Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.58	2020	L
K15L-01-HGFT - Nottoway Pond							
Fish Consumption	Mercury in Fish Tissue	5A		50.7		2010	L
K15R-04-BEN - Mallorys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.12	2014	L
K15R-06-BEN - Little Nottoway River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.09	2018	L
K16L-01-DO - Fort Pickett Reservoir							
Aquatic Life	Dissolved Oxygen	5A		318.95		2018	L
K16L-01-TP - Fort Pickett Reservoir							
Aquatic Life	Phosphorus, Total	5A		318.95		2012	L
K16R-03-DO - Hurricane Branch							
Aquatic Life	Dissolved Oxygen	5C			2	2020	L
K16R-06-BAC - Tommeheton Creek							
Recreation	Escherichia coli (E. coli)	5A			7.63	2016	L
K16R-06-DO - Tommeheton Creek							
Aquatic Life	Dissolved Oxygen	5C			7.63	2010	L
K16R-07-BAC - Seay Creek							
Recreation	Escherichia coli (E. coli)	5A			7.5	2020	L
K16R-07-BEN - Seay Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.5	2014	L
K17R-01-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			9.99	2010	L
K17R-02-BAC - Waqua Creek							
Recreation	Escherichia coli (E. coli)	5A			9.62	2012	L
K17R-03-BAC - Waqua Creek							
Recreation	Escherichia coli (E. coli)	5A			5.59	2016	L
K17R-04-BAC - Great Creek							
Recreation	Escherichia coli (E. coli)	5A			5.45	2016	L
K17R-05-BAC - Reedy Creek							
Recreation	Escherichia coli (E. coli)	5A			6.03	2016	L
K17R-05-DO - Reedy Creek							
Aquatic Life	Dissolved Oxygen	5C			6.03	2016	L
K17R-06-BAC - Turkey Egg Creek							
Recreation	Escherichia coli (E. coli)	5A			5.64	2016	L
K17R-07-DO - Hickory Run							
Aquatic Life	Dissolved Oxygen	5C			4.95	2016	L
K17R-07-PH - Hickory Run							
Aquatic Life	pH	5C			4.95	2016	L
K19R-01-BAC - Masons Branch							

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Recreation	Escherichia coli (E. coli)	5A			2.12	2012	L
K19R-03-BAC - Buckskin Creek							
Recreation	Escherichia coli (E. coli)	5A			3.46	2010	L
K19R-03-DO - Buckskin Creek							
Aquatic Life	Dissolved Oxygen	5C			1.96	2012	L
K19R-04-HGFT - Nottoway River and Tributaries							
Fish Consumption	Mercury in Fish Tissue	5A			113.63	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			72.99	2010	L
Fish Consumption	Mercury in Fish Tissue	5A			10.76	2020	L
K19R-05-BEN - XEJ - Nottoway River, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.88	2008	L
K19R-06-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			13.84	2020	L
K19R-07-DO - XAD - Buckskin Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			2.91	2012	L
K19R-08-DO - XHW - Buckskin Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			1.63	2012	L
K19R-09-BAC - XHX - Buckskin Creek, UT							
Recreation	Escherichia coli (E. coli)	5A			2.66	2012	L
K19R-10-BAC - XHY - Buckskin Creek, UT							
Recreation	Escherichia coli (E. coli)	5A			1.62	2012	L
K19R-11-BAC - Moores Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.98	2016	L
K20R-02-BAC - White Oak Swamp							
Recreation	Escherichia coli (E. coli)	5A			14.83	2018	L
K20R-02-DO - White Oak Swamp							
Aquatic Life	Dissolved Oxygen	5C			14.83	2018	L
K20R-02-PH - White Oak Swamp							
Aquatic Life	pH	5C			14.83	2018	L
K21R-03-HGFT - Stony Creek							
Fish Consumption	Mercury in Fish Tissue	5A			8.36	2010	L
K21R-05-BAC - Mortar Branch							
Recreation	Escherichia coli (E. coli)	5A			6.13	2014	L
K21R-06-BAC - Stony Creek							
Recreation	Escherichia coli (E. coli)	5A			8.36	2016	L
K21R-07-PH - Chamberlains Bed							
Aquatic Life	pH	5C			1.33	2016	L
K21R-08-DO - Chamberlains Bed							
Aquatic Life	Dissolved Oxygen	5C			2.83	2016	L
K21R-08-PH - Chamberlains Bed							
Aquatic Life	pH	5C			2.83	2016	L
K22R-03-BAC - Sappony Creek							
Recreation	Escherichia coli (E. coli)	5A			11.87	2006	L
K22R-04-BAC - Sappony Creek							
Recreation	Escherichia coli (E. coli)	5A			4.35	2016	L
K23R-01-BAC - Arthur Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.67	2016	L
K23R-04-BAC - Jones Hole Swamp/Moores Swamp and all tributaries							
Recreation	Escherichia coli (E. coli)	5A			70.68	2010	L
K23R-05-BAC - Gosee Swamp and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			27.72	2014	L
K23R-09-BAC - Fox Branch							
Recreation	Escherichia coli (E. coli)	5A			3.46	2018	L
K23R-10-BAC - Rowanty Creek							
Recreation	Escherichia coli (E. coli)	5A			14.08	2012	L
K23R-11-BAC - Hatcher Run							
Recreation	Escherichia coli (E. coli)	5A			16.22	2020	L
K23R-12-BAC - Warren Swamp							
Recreation	Escherichia coli (E. coli)	5A			1.22	2020	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K23R-13-BAC - Joseph Swamp, UT							
Recreation	Escherichia coli (E. coli)	5A			1.39	2020	L
K24R-03-BAC - Hunting Quarter Swamp							
Recreation	Escherichia coli (E. coli)	5A			16.68	2008	L
Recreation	Escherichia coli (E. coli)	5A			56.97	2020	L
K24R-04-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			19.17	2016	L
K24R-05-BAC - Thweatt Branch and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			7.27	2016	L
K26R-01-DO - Three Creek							
Aquatic Life	Dissolved Oxygen	5C			6.55	2018	L
K27R-03-BEN - Applewhite Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.17	2008	L
K27R-05-BEN - Three Creek - Upper							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.17	2006	L
K28R-01-PH - Mill Swamp							
Aquatic Life	pH	5C			10.49	2012	L
K28R-02-BEN - Buckhorn Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.68	2008	L
K28R-04-BEN - Unnamed Tributary to Mill Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.86	2014	L
K28R-05-BAC - Buckhorn Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.23	2012	L
K28R-05-DO - Buckhorn Swamp							
Aquatic Life	Dissolved Oxygen	5C			4.23	2014	L
K28R-05-PH - Buckhorn Swamp							
Aquatic Life	pH	5C			4.23	2016	L
K28R-06-BAC - Nottoway Swamp							
Recreation	Escherichia coli (E. coli)	5A			8.13	2018	L
K28R-06-DO - Nottoway Swamp							
Aquatic Life	Dissolved Oxygen	5C			8.13	2012	L
K28R-06-PH - Nottoway Swamp							
Aquatic Life	pH	5C			8.13	2012	L
K28R-07-BAC - Nottoway River - Upper							
Recreation	Escherichia coli (E. coli)	5A			4.45	2020	L
K29R-02-BAC - Assamoosick Swamp							
Recreation	Escherichia coli (E. coli)	5A			2.44	2010	L
K29R-03-BAC - XGT - Assamoosick Swamp, UT							
Recreation	Escherichia coli (E. coli)	5A			1.94	2010	L
K30R-01-DO - Darden Mill Run							
Aquatic Life	Dissolved Oxygen	5C			10.72	2002	L
K30R-01-PCB - Nottoway River -Lower Middle							
Fish Consumption	PCBs in Fish Tissue	5A			10.96	2020	L
K30R-01-PH - Darden Mill Run							
Aquatic Life	pH	5C			10.72	2004	L
K30R-02-DO - Nottoway River - Lower							
Aquatic Life	Dissolved Oxygen	5A			4.54	2014	L
K30R-02-PCB - Nottoway River - Lower							
Fish Consumption	PCBs in Fish Tissue	5A			4.54	2020	L
K32R-01-BEN - Blackwater River - Lower							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.33	2008	L
K32R-13-HGFT - Blackwater River Basin							
Fish Consumption	Mercury in Fish Tissue	5A			36.2	2004	L
Fish Consumption	Mercury in Fish Tissue	5A			26.83	2006	L
Fish Consumption	Mercury in Fish Tissue	5A			1313.57	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			419.03	2010	L
Fish Consumption	Mercury in Fish Tissue	5A			4.76	2012	L
K32R-18-BEN - Blackwater River, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.14	2008	L
K33R-02-BAC - Blackwater River - Middle							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Recreation	Escherichia coli (E. coli)	5A			1.04	2012	L
K33R-02-BEN - Blackwater River - Upper							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			19.11	2008	L
K33R-03-BEN - Blackwater River - Lower and Burnt Mills Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.19	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.17	2012	L
K35L-01-DO - Airfield Pond							
Aquatic Life	Dissolved Oxygen	5C		120.07		2008	L
K35L-01-HG - Airfield Pond							
Fish Consumption	Mercury in Fish Tissue	5A		120.07		2010	L
K35R-02-BAC - Seacock Swamp - Lower							
Recreation	Fecal Coliform	5A			2.6	2004	L
K35R-02-BEN - Seacock Swamp - Lower							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.6	2008	L
K35R-03-BAC - UT Seacock Swamp							
Recreation	Fecal Coliform	5A			1.02	2004	L
K35R-05-BAC - UT Airfield Pond - Upper							
Recreation	Escherichia coli (E. coli)	5A			0.68	2004	L
K35R-06-BAC - Seacock Swamp - Upper and Lower							
Recreation	Escherichia coli (E. coli)	5A			2.5	2012	L
Recreation	Fecal Coliform	5A			0.85	2006	L
K35R-07-BAC - Roundhill Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.03	2020	L
K35R-08-BEN - Round Hill Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.64	2008	L
K36R-02-BEN - Black Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.96	2008	L
K36R-03-BAC - Black Creek- Upper							
Recreation	Escherichia coli (E. coli)	5A			3.29	2010	L
K36R-04-BAC - Cypress Swamp							
Recreation	Escherichia coli (E. coli)	5A			5.17	2012	L
K36R-04-BEN - Unsegmented Tributary to Blackwater							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.76	2008	L
K36R-07-BAC - Blackwater River - Upper							
Recreation	Escherichia coli (E. coli)	5A			2.47	2016	L
K36R-08-BAC - Ducks Swamp							
Recreation	Escherichia coli (E. coli)	5A			2.61	2018	L
K36R-09-BAC - Black Creek							
Recreation	Escherichia coli (E. coli)	5A			4.96	2020	L
K38R-01-BEN - Somerton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.39	2006	L
K38R-02-BAC - March Swamp							
Recreation	Escherichia coli (E. coli)	5A			7.72	2008	L
K38R-04-BAC - Jones Swamp							
Recreation	Escherichia coli (E. coli)	5A			3.8	2014	L
K38R-06-BAC - Somerton Creek							
Recreation	Escherichia coli (E. coli)	5A			9.39	2016	L
K38R-07-DO - Jones Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.8	2018	L
K39L-01-HG - Lake Drummond							
Fish Consumption	Mercury in Fish Tissue	5A		3241.97		2006	L
K39L-01-PH - Lake Drummond							
Aquatic Life	pH	5C		3241.97		2008	L
K39R-01-HG - Dismal Swamp Canal & Feeder Ditch to Lake Drummond							
Fish Consumption	Mercury in Fish Tissue	5A			13.22	2004	L
K39R-02-HG - Unsegmented rivers in K39R							
Fish Consumption	Mercury in Fish Tissue	5A			15.29	2010	L
K39R-03-BAC - Adams Swamp							
Recreation	Escherichia coli (E. coli)	5A			3	2018	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K39R-03-DO - Adams Swamp							
Aquatic Life	Dissolved Oxygen	5C			3	2018	L
K39R-03-PH - Adams Swamp							
Aquatic Life	pH	5C			3	2018	L
K39R-04-DO - Cypress Swamp							
Aquatic Life	Dissolved Oxygen	5A			4.56	2020	L
K40R-02-BAC - Northwest River - Middle (PWS)							
Recreation	Escherichia coli (E. coli)	5A			5.69	2006	L
K40R-04-BAC - Northwest River - Lower (PWS)							
Recreation	Escherichia coli (E. coli)	5A			2.83	2016	L
K40R-04-HG - Northwest River - Middle							
Fish Consumption	Mercury in Fish Tissue	5A			5.69	2010	L
K40R-08-BAC - Unnamed tributary to Northwest River (PWS)							
Recreation	Escherichia coli (E. coli)	5A			4.07	2006	L
K40R-09-BAC - Indian Creek tributary to Northwest River							
Recreation	Escherichia coli (E. coli)	5A			3.46	2006	L
K41R-01-BEN - Pocaty River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.43	2010	L
K41R-05-PCB - West Neck Creek - Middle							
Fish Consumption	PCBs in Fish Tissue	5A			3.4	2010	L
K41R-08-BAC - Blackwater Creek							
Recreation	Escherichia coli (E. coli)	5A			4.47	2006	L
K41R-12-BEN - Unnamed Trib to Milldam Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.67	2012	L
K41R-12-DO - Unnamed Trib to Milldam Creek							
Aquatic Life	Dissolved Oxygen	5A			0.67	2014	L
K41R-13-DO - Blackwater Creek							
Aquatic Life	Dissolved Oxygen	5A			4.47	2008	L
K41R-15-BAC - West Neck Creek - Lower							
Recreation	Escherichia coli (E. coli)	5A			6.12	2006	L
K42E-07-DO - Beggars Bridge Creek							
Aquatic Life	Dissolved Oxygen	5A	0.042			2010	L

Tennessee and Big Sandy River Basins

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
O01R-02-PH - Hurricane Creek Tributary							
Aquatic Life	pH	5A			1.12	2010	L
O02R-01-HG - South Fork Holston River							
Fish Consumption	Mercury in Fish Tissue	5A			6.14	2010	L
O02R-03-HG - Beaverdam Creek							
Fish Consumption	Mercury in Fish Tissue	5A			2.02	2010	L
O04L-01-HG - Hungry Mother Lake							
Fish Consumption	Mercury in Fish Tissue	5A		103.23		2010	L
O05R-02-BEN - Greenway Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.02	2010	H
O06L-01-DO - South Holston Lake							
Aquatic Life	Dissolved Oxygen	5A		1699.98		2022	L
O06L-01-HG - South Holston Lake							
Fish Consumption	Mercury in Fish Tissue	5A		1699.98		2010	L
O06L-01-PCB - South Holston Lake							
Fish Consumption	PCBs in Fish Tissue	5A		1699.98		2010	L
O06R-01-PCB - Wolf Creek							
Fish Consumption	PCBs in Fish Tissue	5A			6.67	2006	L
O06R-02-BAC - Fifteen Mile Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			12.93	2008	L
O06R-02-BEN - Fifteen Mile Creek Tirbutary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.33	2022	L
O06R-03-BAC - Spring Creek							
Recreation	Escherichia coli (E. coli)	5A			4.44	2008	L
O06R-06-BAC - Cox Mill Creek							
Recreation	Escherichia coli (E. coli)	5A			3.51	2018	L
O07R-01-PCB - Beaver Creek and Little Creek							
Fish Consumption	PCBs in Fish Tissue	5A			17.35	2006	L
O07R-04-BAC - Sinking Creek							
Recreation	Escherichia coli (E. coli)	5A			3.8	2012	L
O07R-05-BAC - Stoffel Creek							
Recreation	Escherichia coli (E. coli)	5A			5.22	2012	L
O08R-01-BAC - Boozy Creek							
Recreation	Escherichia coli (E. coli)	5A			2.54	2012	L
O10R-01-PCB - North Fork Holston River							
Fish Consumption	PCBs in Fish Tissue	5A			73.89	1996	L
O10R-01-PH - Little Tumbling Creek							
Aquatic Life	pH	5A			5.8	2020	L
O10R-05-BEN - Laurel Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.65	2002	L
O10R-08-TEMP - Little Tumbling Creek							
Aquatic Life	Temperature	5A			5.8	2020	L
O11L-02-TEMP - Laurel Bed Lake							
Aquatic Life	Temperature	5C		359.43		2010	L
O12R-03-BEN - Greendale Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.03	2010	H
O12R-04-BEN - Rich Valley Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.85	2020	H
O13R-02-BEN - Hilton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2022	L
P01L-03-HG - Lake Witten							
Fish Consumption	Mercury in Fish Tissue	5A		53.17		2010	L
P03R-01-BEN - Big Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.39	2010	L
P03R-02-HG - Clinch River							
Fish Consumption	Mercury in Fish Tissue	5A			5.55	2010	L
P04R-01-TEMP - Mill Creek							
Aquatic Life	Temperature	5A			3.22	2022	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
P04R-02-BEN - Swords Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.92	2006	L
P04R-03-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.22	2014	L
P04R-04-BEN - Big Lick Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.21	2020	L
P06R-02-BEN - Little Cedar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.04	2020	H
P07R-02-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2014	H
P09L-01-HG - Bark Camp Lake							
Fish Consumption	Mercury in Fish Tissue	5A		41.07		2010	L
P09R-02-BAC - Clinch River							
Recreation	Escherichia coli (E. coli)	5A			4.22	2012	L
P09R-08-BAC - Cowan Creek							
Recreation	Escherichia coli (E. coli)	5A			4.16	2018	L
P11R-03-PCB - Guest River and Bear Creek							
Fish Consumption	PCBs in Fish Tissue	5A			6.09	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			19.88	2006	L
P11R-12-PH - Mill Creek							
Aquatic Life	pH	5A			2.24	2020	L
P12R-01-BEN - Bark Camp Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.07	2004	L
P12R-01-PH - Bark Camp Branch							
Aquatic Life	pH	5A			3.07	2010	L
P12R-02-PH - Devil Fork							
Aquatic Life	pH	5A			4.4	2014	L
P13R-02-PCB - Stock Creek							
Fish Consumption	PCBs in Fish Tissue	5A			4.79	2004	L
P14R-02-BEN - Blackoak Branch Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.77	2012	H
P14R-03-BEN - Obeys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.51	2020	H
P15R-01-BEN - Dry Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.22	2018	L
P17R-00-BEN - Dark Hollow							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.41	2004	L
P17R-00-PH - Dark Hollow							
Aquatic Life	pH	5A			1.41	2012	L
P17R-04-BEN - Unnamed tributary to Callahan Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.59	2016	L
P17R-09-BEN - Roaring Fork and Potcamp Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.05	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			21.74	2014	L
P17R-11-BEN - Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.47	2014	L
P17R-12-BEN - Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1	2010	L
P17R-13-BEN - Looney Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.05	2014	L
P17R-14-PH - Roaring Branch							
Aquatic Life	pH	5A			2.92	2018	L
P18L-01-HG - Big Cherry Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		104.01		2010	L
P18R-04-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	5A			4.04	2018	L
P20L-01-HG - Lake Keokee							
Fish Consumption	Mercury in Fish Tissue	5A		96.22		2010	L
P20L-01-TEMP - Lake Keokee							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Temperature	5A		96.22		2020	L
P20R-01-TEMP - North Fork Powell River							
Aquatic Life	Temperature	5A			2.99	2014	L
Aquatic Life	Temperature	5A			7.67	2016	L
P20R-04-BEN - North Fork Powell River Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.23	2014	L
P21R-02-BAC - Hardy Creek							
Recreation	Escherichia coli (E. coli)	5A			12.52	2006	L
P21R-04-BAC - Dry Creek							
Recreation	Escherichia coli (E. coli)	5A			8.87	2012	L
P21R-05-BAC - Town Creek							
Recreation	Escherichia coli (E. coli)	5A			3.74	2012	L
P22R-01-TEMP - Wallen Creek							
Aquatic Life	Temperature	5A			42.9	2012	L
P23R-02-BAC - Martin Creek							
Recreation	Escherichia coli (E. coli)	5A			9.66	2008	L
P23R-03-BAC - Fourmile Creek							
Recreation	Escherichia coli (E. coli)	5A			2.37	2014	L
P23R-04-BAC - Powell River							
Recreation	Escherichia coli (E. coli)	5A			8.47	2020	L
P24R-01-BAC - Indian Creek							
Recreation	Escherichia coli (E. coli)	5A			8.19	2008	L
Recreation	Escherichia coli (E. coli)	5A			4.45	2014	L
P24R-02-BAC - Station Creek							
Recreation	Escherichia coli (E. coli)	5A			3.12	2018	L
Q01R-01-BAC - Dry Fork							
Recreation	Escherichia coli (E. coli)	5A			11.61	2018	L
Q01R-02-BAC - Jacobs Fork and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			2.35	2010	L
Q01R-03-BEN - Beech Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.68	2020	L
Q03R-02-PCB - Knox Creek and Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A			186.12	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			14.71	2006	L
Q03R-03-BAC - Pawpaw Creek							
Recreation	Escherichia coli (E. coli)	5A			4.23	2010	L
Q05R-00-TEMP - Dismal Creek							
Aquatic Life	Temperature	5A			5.39	2008	L
Q06R-01-BEN - Big Prater Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.11	2022	L
Q08R-05-BEN - Conaway Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.63	2014	L
Q08R-06-BEN - State Line Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.36	2014	L
Q08R-07-BEN - Home Creek Headwaters							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.8	2014	L
Q08R-08-BEN - Conaway Creek and Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.99	2014	L
Q08R-09-BEN - Poplar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.04	2014	L
Q09R-01-BAC - Russell Fork and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			8.88	2004	L
Recreation	Escherichia coli (E. coli)	5A			2.25	2006	L
Recreation	Escherichia coli (E. coli)	5A			12.68	2010	L
Recreation	Escherichia coli (E. coli)	5A			3.9	2012	L
Recreation	Escherichia coli (E. coli)	5A			4.56	2018	L
Recreation	Escherichia coli (E. coli)	5A			2.09	2020	L
Q09R-01-BEN - Indian Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.7	2012	L
Q10R-01-BEN - Fryingpan Creek							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.45	2012	L
Q10R-02-BEN - Little Pawpaw Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.93	2020	L
Q11R-02-BEN - Wakenva Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.8	2014	L
Q11R-04-BEN - Cowan Rose Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.3	2014	L
Q11R-05-BEN - Dismal Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.52	2014	L
Q12R-01-BAC - Russell Prater Creek							
Recreation	Escherichia coli (E. coli)	5A			11.72	2008	L
Q12R-01-TEMP - Russell Fork							
Aquatic Life	Temperature	5A			2.25	2020	L
Q12R-05-BEN - Middle Fork (Hunts Creek)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.94	2014	L
Q12R-06-BEN - Grassy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.09	2020	L
Q13L-01-DO - John Flannagan Reservoir							
Aquatic Life	Dissolved Oxygen	5A		1177.22		2022	L
Q13L-01-HG - John Flannagan Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		1177.22		2010	L
Q13R-03-BAC - Pound River, North Fork Pound River, and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			3.23	2006	L
Recreation	Escherichia coli (E. coli)	5A			16.94	2008	L
Recreation	Escherichia coli (E. coli)	5A			5.53	2022	L
Q13R-03-TEMP - North Fork Pound River							
Aquatic Life	Temperature	5C			1.3	2010	L
Q13R-04-BEN - Indian Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.98	2012	L
Q13R-06-BEN - Pound River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			16.94	2004	L
Q13R-08-BAC - Indian Creek							
Recreation	Escherichia coli (E. coli)	5A			2.98	2020	L
Q13R-09-BAC - Big Branch							
Recreation	Escherichia coli (E. coli)	5A			1.47	2014	L
Q13R-09-BEN - North Fork Pound River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.3	2010	L
Q13R-10-BAC - South Fork Pound River							
Recreation	Escherichia coli (E. coli)	5A			5.81	2014	L
Recreation	Escherichia coli (E. coli)	5A			3.44	2016	L
Q14R-01-BAC - Cranesnest River and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			7.53	2004	L
Recreation	Escherichia coli (E. coli)	5A			12.93	2010	L
Recreation	Escherichia coli (E. coli)	5A			6.34	2020	L
Q14R-01-BEN - Birchfield Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.52	2010	L
Q14R-02-BEN - Dotson Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.82	2012	L
Q14R-03-BEN - Left Fork Rush Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.41	2022	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
C01E-10-EBEN - Cockrell Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.612			2020	L
C01E-17-PCB - Chesapeake Bay and Tidal Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A	1548.034			2006	L
Fish Consumption	PCBs in Fish Tissue	5A	0.025			2010	L
Fish Consumption	PCBs in Fish Tissue	5A	0.003			2012	L
C01R-01-BAC - Crabbe Mill Stream							
Recreation	Escherichia coli (E. coli)	5A			3.91	2012	L
C01R-01-DO - Crabbe Mill Stream							
Aquatic Life	Dissolved Oxygen	5C			3.91	2012	L
C01R-01-PH - Crabbe Mill Stream							
Aquatic Life	pH	5C			3.91	2012	L
C01R-02-BEN - Dymer Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.07	2014	L
C02R-03-HG - Dragon Swamp/Piankatank River							
Fish Consumption	Mercury in Fish Tissue	5A	2.661			2004	L
Fish Consumption	Mercury in Fish Tissue	5A			31.97	2006	L
Fish Consumption	Mercury in Fish Tissue	5A	0.062			2008	L
C03E-10-EBEN - Piankatank River							
Aquatic Life	Estuarine Bioassessments	5A	1.167			2006	L
Aquatic Life	Estuarine Bioassessments	5A	0.785			2008	L
Aquatic Life	Estuarine Bioassessments	5A	18.109			2014	L
Aquatic Life	Estuarine Bioassessments	5A	0.047			2018	L
Aquatic Life	Estuarine Bioassessments	5A	6.359			2022	L
C03E-24-PH - Dragon Swamp							
Aquatic Life	pH	5C	0.823			2022	L
C04E-53-BAC - Whites Creek - Festival Beach							
Recreation	Enterococcus	5A	0.074			2012	L
C04R-01-DO - East River							
Aquatic Life	Dissolved Oxygen	5C			0.59	2012	L
C04R-01-PH - East River							
Aquatic Life	pH	5C			0.59	2012	L
C06E-01-BAC - Northwest Branch Severn River							
Recreation	Enterococcus	5A	0.127			2010	L
Recreation	Enterococcus	5A	0.594			2016	L
C07E-01-PCB - Chesapeake Bay & Tidal Tributaries VDH Fish Consumption Advisory for PCBs							
Fish Consumption	PCBs in Fish Tissue	5A	16.028			2006	L
C07E-33-EBEN - Northwest Br. Back River - Upper near Marsh Point							
Aquatic Life	Estuarine Bioassessments	5A	0.248			2010	L
C07E-43-BAC - Buckroe Beaches							
Recreation	Enterococcus	5A	0.224			2016	L
C07E-46-EBEN - Northwest Br. Back River - Lower							
Aquatic Life	Estuarine Bioassessments	5A	0.961			2018	L
C07E-51-EBEN - Southwest Br. Back River							
Aquatic Life	Estuarine Bioassessments	5A	0.568			2020	L
C07L-01-CU - Harwoods Mill Reservoir							
Aquatic Life	Copper	5A		257.69		2004	L
Wildlife	Copper	5A		257.69		2004	L
C07L-02-DO - Harwoods Mill Reservoir (PWS)							
Aquatic Life	Dissolved Oxygen	5A		257.69		2004	L
C07R-01-DO - Newmarket Creek - Lower Riverine							
Aquatic Life	Dissolved Oxygen	5A			3.96	2006	L
C07R-03-BEN - UT to Big Bethel Reservoir							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.91	2018	L
C08E-01-EBEN - LYNPH							
Aquatic Life	Estuarine Bioassessments	5A	7.936			2008	L
C08E-01-PCB - Eastern Branch -Lynnhaven River System VDH Fish Consumption Advisory							
Fish Consumption	PCBs in Fish Tissue	5A	0.353			2006	H
Fish Consumption	PCBs in Fish Tissue	5A	3.479			2006	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
C08E-14-BAC - Sara Constance Park, East End							
Recreation	Enterococcus	5A	0.14			2014	L
C08E-15-BAC - 13th View Beach							
Recreation	Enterococcus	5A	0.353			2016	L
C08E-19-BAC - 10th View Beach							
Recreation	Enterococcus	5A	0.152			2020	L
C08E-22-BAC - Long Creek							
Recreation	Enterococcus	5A	0.316			2020	L
C08E-23-BAC - Linkhorn Bay-Upper							
Recreation	Enterococcus	5A	0.004			2020	L
C08L-01-CHLA - Lake Whitehurst							
Aquatic Life	Chlorophyll-a	5A		482.29		2010	L
C08L-01-DO - Lake Whitehurst							
Aquatic Life	Dissolved Oxygen	5A		482.29		2008	
C08L-01-HG - Lake Whitehurst							
Fish Consumption	Mercury in Fish Tissue	5A		482.29		2008	L
C08L-01-PCB - Lake Whitehurst VDH Fish Consumption Advisory							
Fish Consumption	PCBs in Fish Tissue	5A		482.29		2006	L
C08L-01-TP - Lake Whitehurst							
Aquatic Life	Phosphorus, Total	5A		482.29		2010	L
C08L-03-CHLA - Little Creek Reservoir							
Aquatic Life	Chlorophyll-a	5A		199.8		2010	L
C08L-03-PCB - Little Creek Reservoir VDH Fish Consumption Advisory							
Fish Consumption	PCBs in Fish Tissue	5A		199.8		2008	L
C08L-03-TP - Little Creek Reservoir							
Aquatic Life	Phosphorus, Total	5A		199.8		2010	L
C08L-04-CHLA - Lake Smith							
Aquatic Life	Chlorophyll-a	5A		184.89		2010	L
C08L-04-TP - Lake Smith							
Aquatic Life	Phosphorus, Total	5A		184.89		2010	L
C08L-06-HG - Lake Trashmore - Western Pond VDH Fish Consumption Advisory for Mercury							
Fish Consumption	Mercury in Fish Tissue	5A		54.4		2006	L
C08L-06-PCB - Lake Trashmore - Western Pond VDH Fish Consumption Advisory for PCBs							
Fish Consumption	PCBs in Fish Tissue	5A		54.4		2006	L
C08L-07-DO - Lake Wright							
Aquatic Life	Dissolved Oxygen	5A		15.63		2014	L
C08R-01-BAC - Little Neck Creek							
Recreation	Escherichia coli (E. coli)	5A			1.12	2020	L
C09R-02-PH - Unnamed tributary to Pitts Creek							
Aquatic Life	pH	5A			5.43	2006	L
C10E-02-BAC - Muddy Creek - Upper							
Recreation	Enterococcus	5A	0.301			2006	L
C10E-02-SF - Tyler Creek, Shanks Creek, Tangier Sound							
Shellfishing	Fecal Coliform	5B	2.169			2018	L
C10E-03-SF - Pocomoke Sound							
Shellfishing	Fecal Coliform	5B	2.48			2018	L
C10E-20-SF - Muddy Creek - Upper							
Shellfishing	Fecal Coliform	5B	0.301			2006	L
C10E-25-SF - Muddy Creek - Lower							
Shellfishing	Fecal Coliform	5B	0.048			2020	L
C10E-26-SF - Starling Creek							
Shellfishing	Fecal Coliform	5B	0.091			2020	L
C10E-29-SF - Doe Creek Upper							
Shellfishing	Fecal Coliform	5B	0.14			2022	L
C10E-30-SF - C10E Unsegmented Estuaries POCMH DSS Restricted							
Shellfishing	Fecal Coliform	5B	0.11			2022	L
C10E-31-BAC - Gaurd Shore Beach							
Recreation	Enterococcus	5A	0.026			2022	L
C10R-03-BEN - Guilford Creek							

Chesapeake Bay/Atlantic/Small Coastal Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.86	2008	L
C11E-14-SF - Onancock Mainstem Upper & UT							
Shellfishing	Fecal Coliform	5B	0.066			2022	L
C11E-15-SF - Matchotank Cr							
Shellfishing	Fecal Coliform	5B	0.185			2022	L
C11E-25-SF - Parkers Creek - Upper							
Shellfishing	Fecal Coliform	5B	0.035			2020	L
C11E-26-SF - Parkers Creek - Middle & Lower							
Shellfishing	Fecal Coliform	5B	0.041			2020	L
Shellfishing	Fecal Coliform	5B	0.086			2022	L
C11E-27-SF - Pompco Cr- SW inlet of UT off of Rogue Island							
Shellfishing	Fecal Coliform	5B	0.01			2020	L
C11R-01-BAC - Joynes Branch							
Recreation	Escherichia coli (E. coli)	5A			2.37	2008	L
C12R-01-BEN - Taylor Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.91	2004	L
C12R-02-BEN - Bull Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.25	2008	L
C12R-03-BAC - Taylor Creek							
Recreation	Escherichia coli (E. coli)	5A			0.91	2020	L
C13E-23-SF - Boggs Gut							
Shellfishing	Fecal Coliform	5B	0.034			2022	L
C13E-24-EBEN - Church Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.323			2022	L
C13R-01-BEN - Taylor Branch - Occohannock Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.32	2008	L
D01E-02-DO - Little Mosquito Creek							
Aquatic Life	Dissolved Oxygen	5A	0.138			2004	H
Aquatic Life	Dissolved Oxygen	5A	0.07			2008	H
D01E-04-DO - Swan Gut Creek							
Aquatic Life	Dissolved Oxygen	5A	0.1			2004	L
D01E-19-EBEN - Chincoteague Bay							
Aquatic Life	Estuarine Bioassessments	5A	0.016			2020	L
D02E-01-DO - Assawoman Creek- Upper/Lower							
Aquatic Life	Dissolved Oxygen	5A	0.063			2004	H
Aquatic Life	Dissolved Oxygen	5A	0.073			2008	H
D02R-02-BAC - Assawoman Creek							
Recreation	Escherichia coli (E. coli)	5A			1.03	2020	L
D03E-07-BAC - Wachapreague Channel							
Recreation	Enterococcus	5A	0.026			2008	L
D03E-08-DO - Northam Creek							
Aquatic Life	Dissolved Oxygen	5A	0.028			2004	L
D03R-01-DO - Rattrap Creek							
Aquatic Life	Dissolved Oxygen	5A			1.51	2022	L
D03R-03-BEN - Ross Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.2	2002	H
D03R-04-BEN - Unnamed tributary to Folly Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.54	2002	H
D03R-05-BEN - Rattrap Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.74	2012	H
D03R-06-BEN - North Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.13	2016	H
D03R-07-BEN - Custis Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.23	2016	H
D04E-01-DO - Red Bank Creek-Upper							
Aquatic Life	Dissolved Oxygen	5A	0.002			2004	L
D04E-02-DO - Unnamed tributary to Red Bank Creek							
Aquatic Life	Dissolved Oxygen	5A	0.009			2020	L
D04E-09-DO - Quinby Harbor-Upshur Bay							
Aquatic Life	Dissolved Oxygen	5A	3.389			2020	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
D04E-11-EBEN - Machipongo River-Middle							
Aquatic Life	Estuarine Bioassessments	5A	0.134			2020	L
D04R-01-DO - Red Bank Creek							
Aquatic Life	Dissolved Oxygen	5C			1.37	2016	L
D04R-04-BEN - UT to Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.49	2014	L
D05E-01-HG - Oyster Slip (Harbor) - Upper							
Fish Consumption	Mercury in Fish Tissue	5A	0.034			2010	L
D05R-01-BAC - Taylor Creek							
Recreation	Escherichia coli (E. coli)	5A			1.26	2002	L
D05R-02-BAC - Holt Creek							
Recreation	Escherichia coli (E. coli)	5A			1.75	2004	L
D05R-03-BAC - Holt Creek Unnamed Tributary							
Recreation	Escherichia coli (E. coli)	5A			1.42	2004	L
D05R-03-BEN - Holt Creek Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.42	2012	L
D06E-01-DO - Magothy Bay - Lower							
Aquatic Life	Dissolved Oxygen	5A	0.037			2004	L
D06E-02-PCB - Raccoon Creek							
Fish Consumption	PCBs in Fish Tissue	5A	0.004			2010	L
D06R-02-BAC - Narrow Channel Branch							
Recreation	Escherichia coli (E. coli)	5A			1.85	2004	L
D06R-02-BEN - Narrow Channel Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2004	L
D06R-02-DO - Narrow Channel Branch							
Aquatic Life	Dissolved Oxygen	5A			1.85	2014	L
D06R-03-BAC - Tommy's Ditch							
Recreation	Escherichia coli (E. coli)	5A			1.45	2008	L
D06R-04-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	5A			2.24	2020	L
D07E-04-BAC - Owl Creek - Upper							
Recreation	Enterococcus	5A	0.001			2002	L
D07E-04-DO - Owl Creek - Upper							
Aquatic Life	Dissolved Oxygen	5A	0.001			2006	L
D07E-11-BAC - Lake Wesley - Upstream Branches							
Recreation	Enterococcus	5A	0.016			2020	L
D07E-12-BAC - Lake Rudee - Upper (northwest trib.)							
Recreation	Enterococcus	5A	0.006			2020	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

York River Basin

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F01L-01-HG - Lake Gordonsville							
Fish Consumption	Mercury in Fish Tissue	5A		77.31		2006	L
F01R-02-BEN - Wheeler Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.01	2008	L
F01R-03-BEN - Camp Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.02	2012	L
F01R-04-BEN - South Anna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.15	2020	L
F02L-01-DO - Northeast Creek Reservoir							
Aquatic Life	Dissolved Oxygen	5A		183.79		2022	L
F02R-01-BEN - Fosters Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.92	2018	L
F03R-01-BEN - Cub Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.1	2014	L
F03R-02-BEN - Taylors Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			16.54	2016	L
F03R-03-BEN - Fork Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.33	2018	L
F03R-03-DO - Cub Creek							
Aquatic Life	Dissolved Oxygen	5A			3.1	2008	L
F03R-04-BEN - South Branch Fork Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.06	2018	L
F03R-05-BEN - Unnamed tributary to Taylors Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.43	2018	L
F04R-03-DO - Stagg Creek							
Aquatic Life	Dissolved Oxygen	5C			6.56	2008	L
F04R-03-PH - Stagg Creek							
Aquatic Life	pH	5C			6.56	2016	L
F05R-01-BEN - Newfound River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.96	2018	L
F06R-01-BEN - North Anna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.8	2018	L
F06R-04-BAC - North Anna River							
Recreation	Escherichia coli (E. coli)	5A			3.79	2006	L
Recreation	Escherichia coli (E. coli)	5A			2.8	2010	L
Recreation	Escherichia coli (E. coli)	5A			2.65	2022	L
F06R-05-BAC - Christopher Creek							
Recreation	Escherichia coli (E. coli)	5A			1.99	2010	L
F06R-06-BAC - Hickory Creek							
Recreation	Escherichia coli (E. coli)	5A			1.72	2012	L
F06R-08-BAC - Duckinghoe Creek							
Recreation	Escherichia coli (E. coli)	5A			6.98	2016	L
F06R-10-BAC - Hickory Creek							
Recreation	Escherichia coli (E. coli)	5A			0.69	2018	L
F07L-01-HAB - Lake Anna and Lake Anna State Park FIshing Pond							
Recreation	Harmful Algal Blooms	5A		3140.12		2022	H
F07L-01-HG - Lake Anna							
Fish Consumption	Mercury in Fish Tissue	5A		1563.36		2010	L
F07L-01-PAHHMW - Gold Mine Creek							
Fish Consumption	Benzo[a]pyrene (PAHs)	5A		91.63	7.53	2010	L
F07L-01-PCB - Lake Anna and Contrary Creek, Goldmine Creek, and Terrys Run tributaries							
Fish Consumption	PCBs in Fish Tissue	5A		2128.06		2002	L
Fish Consumption	PCBs in Fish Tissue	5A		7468.8	23.08	2006	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A		1233.83		2010	L
F07L-01-PH - Lake Orange							
Aquatic Life	pH	5C		124.85		2022	L
F07R-01-BEN - Pamunkey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.22	2012	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F07R-01-DO - Church Run							
Aquatic Life	Dissolved Oxygen	5A			0.72	2022	L
F07R-02-BEN - Plentiful Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.3	2022	L
F08R-01-CD - Contrary Creek							
Aquatic Life	Cadmium	5A		27.87	5.52	2008	L
Wildlife	Cadmium	5A		27.87	5.52	2008	L
F08R-01-CU - Contrary Creek							
Aquatic Life	Copper	5A		27.87	5.52	2008	L
Wildlife	Copper	5A		27.87	5.52	2008	L
F08R-01-PH - Contrary Creek							
Aquatic Life	pH	5A			5.52	2002	L
Aquatic Life	pH	5A		27.87		2008	L
F08R-01-ZN - Contrary Creek							
Aquatic Life	Zinc	5A		27.87	5.52	2008	L
Wildlife	Zinc	5A		27.87	5.52	2008	L
F09R-02-BEN - XHS - North Anna River, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.09	2008	L
F09R-03-PH - XIM - North Anna River, UT							
Aquatic Life	pH	5C			0.7	2010	L
F09R-04-PH - Mill Creek							
Aquatic Life	pH	5C			4.37	2012	L
F09R-05-PH - XJP - North Anna River, UT							
Aquatic Life	pH	5C			1.01	2016	L
F10R-02-DO - Long Creek							
Aquatic Life	Dissolved Oxygen	5A			5.16	2014	L
F11R-01-BEN - Locust Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.6	2010	L
F11R-01-DO - Little River							
Aquatic Life	Dissolved Oxygen	5A			6.3	2008	L
F11R-02-PH - Beaverdam Creek							
Aquatic Life	pH	5A			8.48	2012	L
F12R-05-DO - Mechumps Creek							
Aquatic Life	Dissolved Oxygen	5A			1.06	2010	L
F12R-05-PH - Mechumps Creek							
Aquatic Life	pH	5A			1.06	2006	L
F12R-07-PH - Crump Creek							
Aquatic Life	pH	5C			10	2010	L
F12R-10-PH - Millpond Creek							
Aquatic Life	pH	5C			3.03	2012	L
F12R-11-PH - Kersey Creek							
Aquatic Life	pH	5C			3.33	2012	L
F12R-12-PH - XJC - Crump Creek, UT							
Aquatic Life	pH	5C			1.97	2012	L
F12R-13-DO - Pollard Creek							
Aquatic Life	Dissolved Oxygen	5C			4.21	2020	L
F12R-13-PH - Pollard Creek							
Aquatic Life	pH	5C			4.21	2012	L
F13R-04-PCB - Moncuin Creek, Webb Creek							
Fish Consumption	PCBs in Fish Tissue	5A			12.12	2010	L
F13R-07-PH - Jacks Creek							
Aquatic Life	pH	5A			7.52	2018	L
F13R-09-PH - XDX - UT to XDW (Pamunkey River, UT)							
Aquatic Life	pH	5C			3.86	2012	L
F13R-11-PH - XDW - UT to Pamunkey River							
Aquatic Life	pH	5C			5.52	2012	L
F13R-12-PH - Judy Swamp							
Aquatic Life	pH	5C			3.34	2012	L
F13R-13-HG - Pamunkey River							
Fish Consumption	Mercury in Fish Tissue	5A	1.09		11.56	2006	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

York River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Fish Consumption	Mercury in Fish Tissue	5A	9.423			2010	L
F13R-13-PCB - Pamunkey River							
Fish Consumption	PCBs in Fish Tissue	5A	10.513		11.56	2010	L
F13R-14-PH - XIV - Mehixen Creek, UT							
Aquatic Life	pH	5C			2.05	2012	L
F14E-04-EBEN - York-, Pamunkey-, and Mattaponi Rivers							
Aquatic Life	Estuarine Bioassessments	5A	0.641			2006	L
Aquatic Life	Estuarine Bioassessments	5A	29.258			2018	L
F14E-05-EBEN - Pamunkey River							
Aquatic Life	Estuarine Bioassessments	5A	0.113			2010	L
F14E-07-EBEN - Pamunkey River							
Aquatic Life	Estuarine Bioassessments	5A	0.584			2020	L
F14R-01-DO - Cohoke Mill Creek							
Aquatic Life	Dissolved Oxygen	5C			7.39	2010	L
F14R-02-DO - Harrison Creek							
Aquatic Life	Dissolved Oxygen	5C			2.8	2014	L
F14R-04-PH - XJD - Harrison Creek, UT							
Aquatic Life	pH	5C			0.17	2012	L
F14R-05-DO - Mill Creek							
Aquatic Life	Dissolved Oxygen	5A			0.78	2022	L
F15R-01-BEN - Ni River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.69	2010	L
F15R-01-DO - Brock Run							
Aquatic Life	Dissolved Oxygen	5A			2.57	2012	L
F15R-01-PH - Brock Run							
Aquatic Life	pH	5A			3.22	2014	L
F16R-01-BEN - Glady Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.31	2022	L
F17L-01-HG - Bowies Pond							
Fish Consumption	Mercury in Fish Tissue	5A		25.72		2008	L
F17R-02-PH - Unnamed Tributary to Poni River							
Aquatic Life	pH	5C			3.61	2018	L
F18R-02-DO - Bluff Run							
Aquatic Life	Dissolved Oxygen	5A			3.07	2020	L
F18R-03-BEN - Matta River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.24	2008	L
F19R-02-PH - Hobby Swamp							
Aquatic Life	pH	5C			1.28	2020	L
F20R-01-BEN - Polecat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.24	2014	L
F20R-01-DO - Polecat Creek							
Aquatic Life	Dissolved Oxygen	5C			4.34	2018	L
F21R-01-BAC - Boot Swamp							
Recreation	Escherichia coli (E. coli)	5A			1.68	2020	L
F21R-01-BEN - Herring Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.64	2008	L
F21R-01-HG - Herring Creek							
Fish Consumption	Mercury in Fish Tissue	5A			7.23	2006	L
F21R-02-BEN - Reedy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.3	2014	L
F21R-02-HG - Mattaponi River							
Fish Consumption	Mercury in Fish Tissue	5A	3.723		15.7	2006	L
Fish Consumption	Mercury in Fish Tissue	5A	3.242			2010	L
F21R-03-HG - Reedy Creek and Reedy Millpond							
Fish Consumption	Mercury in Fish Tissue	5A		41.25	12.84	2010	L
F21R-04-PH - Chapel Creek							
Aquatic Life	pH	5C			4.65	2008	L
Aquatic Life	pH	5C			3.94	2018	L
F21R-07-BAC - Mattaponi River							
Recreation	Escherichia coli (E. coli)	5A			8.87	2018	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

York River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F22L-01-HG - Collins Pond							
Fish Consumption	Mercury in Fish Tissue	5A		63.93		2010	L
F22R-02-PH - Root Swamp							
Aquatic Life	pH	5C			7.84	2006	L
F22R-03-DO - Unnamed tributary to Root Swamp							
Aquatic Life	Dissolved Oxygen	5C			0.71	2006	L
F22R-03-PH - Unnamed tributary to Root Swamp							
Aquatic Life	pH	5C			0.71	2006	L
F22R-04-PH - Beverly Run							
Aquatic Life	pH	5C			2.58	2008	L
F22R-05-PH - Doctors Creek							
Aquatic Life	pH	5C			2.33	2008	L
F22R-06-PH - Maracossic Creek							
Aquatic Life	pH	5C			6.77	2018	L
F23R-03-DO - Walkerton Branch							
Aquatic Life	Dissolved Oxygen	5C			4.63	2006	L
F23R-03-PH - Walkerton Branch							
Aquatic Life	pH	5C			4.63	2004	L
F23R-05-BEN - Fleets Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.01	2018	L
F23R-06-PCB - Mattaponi River							
Fish Consumption	PCBs in Fish Tissue	5A	0.159		4.72	2006	L
Fish Consumption	PCBs in Fish Tissue	5A	6.806		10.98	2010	L
F23R-16-DO - Mill Creek							
Aquatic Life	Dissolved Oxygen	5C			0.41	2022	L
F24R-03-DO - Courthouse Creek							
Aquatic Life	Dissolved Oxygen	5A			0.72	2014	L
F25R-01-DO - Tastine Swamp and Little Tastine Swamp							
Aquatic Life	Dissolved Oxygen	5C			6.26	2016	L
F25R-02-DO - Tastine Swamp							
Aquatic Life	Dissolved Oxygen	5C			2.16	2010	L
F26E-01-PCB - York River, Queens Creek, Kings Creek, Wormley							
Fish Consumption	PCBs in Fish Tissue	5A	0.503			2002	L
Fish Consumption	PCBs in Fish Tissue	5A	57.34			2006	L
F26E-06-SF - Fox Creek							
Shellfishing	Fecal Coliform	5B	0.016			2006	L
F26E-10-SF - Carter Creek							
Shellfishing	Fecal Coliform	5B	0.025			2004	L
F26L-02-HAB - Woodstock Pond							
Recreation	Harmful Algal Blooms	5A		7.57		2022	L
F26R-01-BAC - Carter Creek							
Recreation	Fecal Coliform	5A			3.39	2004	L
F26R-01-BEN - Carter Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.39	2004	L
F26R-02-BEN - XEA - Bland Creek, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.23	2008	L
F26R-04-BEN - Bird Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.47	2012	L
YRKMH-EBEN-BAY - Adams Creek - Upper and the lower York River							
Aquatic Life	Estuarine Bioassessments	5A	2.125			2018	L
Aquatic Life	Estuarine Bioassessments	5A	0.116			2020	L
Aquatic Life	Estuarine Bioassessments	5A	0.169			2022	L
YRKPH-EBEN-BAY - York River - BIBI YRKPHa segments							
Aquatic Life	Estuarine Bioassessments	5A	25.752			2004	L
Aquatic Life	Estuarine Bioassessments	5A	0.042			2006	L
Aquatic Life	Estuarine Bioassessments	5A	0.408			2010	L
Aquatic Life	Estuarine Bioassessments	5A	0.202			2018	L
Aquatic Life	Estuarine Bioassessments	5A	0.076			2022	L

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

New River Basin

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
N01R-02-BAC - Little Helton Creek							
Recreation	Escherichia coli (E. coli)	5A			6.31	2010	L
Recreation	Fecal Coliform	5A			6.31	2004	L
N02R-01-TEMP - Wilson Creek							
Aquatic Life	Temperature	5A			13.54	2020	L
N02R-02-BAC - New River, Bridle Creek and Grassy Creek							
Recreation	Escherichia coli (E. coli)	5A			12.6	2010	L
Recreation	Escherichia coli (E. coli)	5A			5.98	2012	L
Recreation	Escherichia coli (E. coli)	5A			1.14	2014	L
Recreation	Escherichia coli (E. coli)	5A			0.43	2020	L
Recreation	Fecal Coliform	5A			8.95	2004	L
N02R-02-HG - New River							
Fish Consumption	Mercury in Fish Tissue	5A			25.08	2006	L
Fish Consumption	Mercury in Fish Tissue	5A			1.48	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			3.61	2010	L
N02R-03-BAC - Wilson Creek and Little Wilson Creek							
Recreation	Escherichia coli (E. coli)	5A			8.91	2010	L
Recreation	Escherichia coli (E. coli)	5A			4.63	2018	L
Recreation	Escherichia coli (E. coli)	5A			7.58	2020	L
Recreation	Fecal Coliform	5A			8.91	2004	L
N03R-01-BAC - Fox Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			19.13	2010	L
Recreation	Fecal Coliform	5A			7.66	2004	L
N04R-01-BEN - Brush Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.62	2022	L
N04R-02-BAC - Little River							
Recreation	Escherichia coli (E. coli)	5A			6.55	2012	L
N04R-03-BAC - Peach Bottom Creek and Rock Creek							
Recreation	Escherichia coli (E. coli)	5A			2.81	2006	L
Recreation	Escherichia coli (E. coli)	5A			13.88	2012	L
Recreation	Escherichia coli (E. coli)	5A			5.34	2016	L
Recreation	Fecal Coliform	5A			2.81	2004	L
N04R-07-BAC - Saddle Creek							
Recreation	Escherichia coli (E. coli)	5A			3.17	2006	L
N05R-01-BEN - Elk Creek and Turkey Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.38	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6	2018	H
N06R-03-BAC - Meadow Creek & New River							
Recreation	Escherichia coli (E. coli)	5A			5.38	2004	L
Recreation	Escherichia coli (E. coli)	5A			10.54	2010	L
Recreation	Escherichia coli (E. coli)	5A			5.03	2014	L
N07R-01-BAC - Crooked Creek							
Recreation	Escherichia coli (E. coli)	5A			27.91	2010	L
Recreation	Fecal Coliform	5A			23.55	2004	L
N08R-01-BAC - New River, Mill Creek, and Pine Run							
Recreation	Escherichia coli (E. coli)	5A			0.61	2006	L
Recreation	Escherichia coli (E. coli)	5A			3.06	2008	L
Recreation	Escherichia coli (E. coli)	5A			5.82	2010	L
Recreation	Escherichia coli (E. coli)	5A			13.09	2016	L
Recreation	Fecal Coliform	5A			4.38	2004	L
N08R-02-BEN - Shorts Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.39	2022	L
N08R-03-BAC - Shorts Creek and Unnamed Tributary							
Recreation	Escherichia coli (E. coli)	5A			10.97	2010	L
Recreation	Escherichia coli (E. coli)	5A			3.31	2012	L
Recreation	Fecal Coliform	5A			7.08	2004	L
Recreation	Fecal Coliform	5A			3.89	2006	L
N09R-03-BEN - Dean Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.92	2016	L
N10R-01-TEMP - Reed Creek and Mill Creek							
Aquatic Life	Temperature	5A			1.44	2012	L

New River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Temperature	5A			6.39	2020	L
N10R-02-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.39	2018	L
N11R-02-BEN - Reed Creek tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.68	2010	L
N13R-01-BAC - Big Reed Island Creek							
Recreation	Escherichia coli (E. coli)	5A			19.85	2008	H
Recreation	Escherichia coli (E. coli)	5A			6.65	2018	H
N13R-01-BEN - Big Reed Island Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			19.85	2008	H
N13R-01-TEMP - Big Reed Island Creek							
Aquatic Life	Temperature	5A			6.65	2018	H
Aquatic Life	Temperature	5A			19.85	2020	H
N13R-02-BAC - Snake Creek							
Recreation	Escherichia coli (E. coli)	5A			3.55	2014	L
N14R-01-BAC - Big Reed Island Creek							
Recreation	Escherichia coli (E. coli)	5A			13.82	2010	H
Recreation	Escherichia coli (E. coli)	5A			7.55	2018	H
Recreation	Fecal Coliform	5A			7.55	2004	H
Recreation	Fecal Coliform	5A			13.82	2014	H
N14R-01-TEMP - Big Reed Island Creek							
Aquatic Life	Temperature	5A			7.55	2018	H
N14R-02-BAC - Greasy Creek							
Recreation	Escherichia coli (E. coli)	5A			13.64	2008	H
N14R-03-BAC - Island Creek							
Recreation	Escherichia coli (E. coli)	5A			13.35	2018	L
N15R-01-BAC - Little Reed Island Creek							
Recreation	Escherichia coli (E. coli)	5A			35.99	2008	H
N15R-01-TEMP - Little Reed Island Creek							
Aquatic Life	Temperature	5A			19.71	2008	H
Aquatic Life	Temperature	5A			5.28	2020	H
N16L-01-BAC - Claytor Lake							
Recreation	Escherichia coli (E. coli)	5A		1932.1		2022	L
N18R-02-BAC - Connellys Run							
Recreation	Escherichia coli (E. coli)	5A			2.85	2010	L
N20R-04-BEN - Dodd Creek, Unnamed Tributary (XEM)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.71	2018	L
N22R-02-BAC - Stroubles Creek							
Recreation	Escherichia coli (E. coli)	5A			5.09	2006	L
Recreation	Escherichia coli (E. coli)	5A			2.12	2010	L
N22R-04-BAC - Toms Creek							
Recreation	Escherichia coli (E. coli)	5A			6.14	2014	L
Recreation	Escherichia coli (E. coli)	5A			5.71	2020	L
N22R-04-TEMP - Toms Creek							
Aquatic Life	Temperature	5C			5.71	2008	L
Aquatic Life	Temperature	5C			6.14	2012	L
Aquatic Life	Temperature	5C			4.56	2014	L
N22R-05-BAC - New River							
Recreation	Escherichia coli (E. coli)	5A			9.81	2016	L
Recreation	Escherichia coli (E. coli)	5A			11.16	2020	L
N22R-06-BEN - Unnamed Tributaries XEJ and XEH to Slate Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.53	2008	L
N23R-01-BAC - Sinking Creek							
Recreation	Escherichia coli (E. coli)	5A			21.04	2010	L
N25R-01-BAC - Walker Creek and Town Creek							
Recreation	Escherichia coli (E. coli)	5A			6.49	2022	L
N26R-01-BEN - Nobusiness Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.73	2022	L
N26R-03-TEMP - Nobusiness Creek							
Aquatic Life	Temperature	5A			6.73	2018	L
N27R-01-BAC - Little Walker Creek							

Virginia Department of Environmental Quality
Appendix 1a - 2022 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

New River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Recreation	Escherichia coli (E. coli)	5A			17.48	2006	L
N30R-02-BEN - Unnamed Tributary to Station Spring Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.49	2022	L
N32R-01-TEMP - Wolf Creek							
Aquatic Life	Temperature	5C			7.91	2014	L
N33R-01-BAC - Dry Fork							
Recreation	Escherichia coli (E. coli)	5A			5.24	2012	L
N34R-01-BAC - Rich Creek							
Recreation	Escherichia coli (E. coli)	5A			2.85	2008	L
N35R-01-BAC - Adair Run							
Recreation	Escherichia coli (E. coli)	5A			0.37	2010	L
N36R-01-CDANE - Bluestone River							
Fish Consumption	Chlordane	5A			0.62	2004	L
N36R-01-PCB - Bluestone River & Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A			13.64	2002	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.48	2010	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			2.99	2012	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			3.01	2022	L

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

TMDL Development Priorities are: H (High) = DEQ will begin addressing high priorities with plan development during the 2022 - 2024 time period; L (Low) = waters that are not prioritized to be addressed with plan development during the 2022 - 2024 time period. Note that M (Medium) remains a valid priority level that may be used in the future.

Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.