

Virginia Department of Environmental Quality

Appendix 4 - Fact Sheets for Impaired (Category 4 or 5) Waters in 2022

James River Basin

Cause Group Code: **H28R-03-BAC** Meadow Creek

Cause Location: Meadow Creek from where it becomes a perennial stream downstream to its confluence with the Rivanna River. (Start Mile: 4.98 End Mile: 0.00 Total Impaired Size: 4.98 Miles)

Cause City/County: Albemarle County; Charlottesville

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: This segment is impaired due to exceedances of the e-coli bacteria WQS at station: 2-MWC000.60 (10 exceedances of 23 samples for e-coli in 2018, no new data 2022). Additional data collected at Rivanna Conservation Alliance Level III Bacteria stations in 2022: 2-MWC-MWC11-RCA and 2-MWC-MWC13-RCA revised E.coli WQS analysis: both stations were found to have two or more STV exceedances in the same 90-day period with less than 10 samples = impaired. Initial Listing Date: 2002. This segment is included in the EPA approved Meadow Creek bacteria TMDL. Federal TMDL ID # 35779.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H28R_MWC01A00 / Meadow Creek / Meadow Creek from where it becomes a perennial stream downstream to its confluence with the Rivanna River.	4A	Escherichia coli (E. coli)	2008	L	4.98

Meadow Creek

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			4.98

Sources: Agriculture; Municipal (Urbanized High Density Area); On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Sanitary Sewer Overflows (Collection System Failures); Sewage Discharges in Unsewered Areas; Unrestricted Cattle Access; Urban Runoff/Storm Sewers; Wildlife Other than Waterfowl

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

James River Basin

Cause Group Code: **H28R-05-BEN** Meadow Creek

Cause Location: Meadow Creek from where it becomes a perennial stream downstream to its confluence with Moores Creek. (Start Mile: 4.98 End Mile: 0.00 Total Impaired Size: 4.98 Miles)

Cause City/County: Albemarle County; Charlottesville

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/4A

Cause Description: This segment is impaired due to exceedances of the General Standard for Benthics at station: 2-MWC000.60 (Impaired for VSCI). Additional impaired data has been collected 2-MWC-MWC03-RCA (Impaired for VSCI) 2-MWC-MWC07-RCA (Impaired for VSCI); 2-MWC-MWC05-RCA (Impaired for VSCI); 2-MWC-MWC06-RCA (Impaired for VSCI); 2-MWC-MWC08-RCA (Impaired for VSCI); 2-MWC-MWC09-RCA (Impaired for VSCI); and 2-MWC-MWC10-RCA Impaired for VSCI). Initial Listing Date: 2006. This impairment is included in the EPA approved Meadow Creek sediment TMDL.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H28R_MWC01A00 / Meadow Creek / Meadow Creek from where it becomes a perennial stream downstream to its confluence with the Rivanna River.	4A	Benthic Macroinvertebrates Bioassessments	2006	L	4.98

Meadow Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		4.98

Sources: Impervious Surface/Parking Lot Runoff; Loss of Riparian Habitat; Municipal (Urbanized High Density Area); Post-development Erosion and Sedimentation; Urban Runoff/Storm Sewers