

**Albemarle County
2023 - 2028
MS4 Program**

Year 1 Annual Report

**Coverage under VPDES General Permit for
Small Municipal Separate Storm Sewer Systems (MS4)
VAR040074**

**Albemarle County
[Environmental Services Division](#)
401 McIntire Road
Charlottesville, Virginia 22902
(434) 296-5816**



October 1, 2024

Albemarle County, Virginia is authorized to discharge stormwater into the State's surface waters through a General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s) under the Virginia Stormwater Management Program.

This document is submitted to the Virginia Department of Environmental Quality as fulfillment of its responsibility to annually report on activities and program updates.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,



Jeffrey B. Richardson, County Executive

9/26/24

Date

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List of Abbreviations

ACSA	Albemarle County Service Authority
ACPS	Albemarle County Public Schools
BMP	Best Management Practice
DEQ	Virginia Department of Environmental Quality
ESD	Environmental Services Division (of Albemarle County)
MCM	Minimum Control Measure
MS4	Municipal Separate Stormwater Sewer System
RCA	Rivanna Conservation Alliance
RSEP	Rivanna Stormwater Education Partnership
SMF	Stormwater Management Facility
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TJSWCD	Thomas Jefferson Soil and Water Conservation District
VDH	Virginia Department of Health
VPDES	Virginia Pollutant Discharge Elimination System
VSMP	Virginia Stormwater Management Program

Introduction

This report documents activities conducted by Albemarle County’s MS4 Program in between **July 1, 2023 and June 30, 2024**, in accordance with the [2023 - 2028 General Permit for Small MS4s](#). Section 1 of the report is a review of the year’s activities falling under each of the six Minimum Control Measures (MCMs) described in the County’s [MS4 Program Plan](#). Section 2 includes the required annual updates related to our Local TMDL Action Plans. An Implementation Annual Status Report for our current [Chesapeake Bay TMDL Action Plan](#) is included on the County’s website as a separate document.

Roles and Responsibilities

Most program activities are carried out by staff from Albemarle County Local Government and/or Albemarle County Public Schools. Additional activities are performed per contractual arrangements with the Thomas Jefferson Soil and Water Conservation District (TJSWCD) and Rivanna Conservation Alliance (RCA). Key County staff associated with each Minimum Control Measure are listed in the table below.

Minimum Control Measure	Albemarle Staff Contacts
1) Public education and outreach	Laurel Williamson, Watershed Stewardship Manager Facilities and Environmental Services Department lwilliamson2@albemarle.org / 434-296-5816 x3411
2) Public involvement and participation	
3) Illicit discharge detection and elimination	
4) Construction site stormwater runoff control	Frank Pohl, County Engineer Community Development Department fpohl@albemarle.org / 434-296-5832 x7914
5) Post-construction stormwater management	Brian Hermsmeier, Water Resources Program Manager Facilities and Environmental Services Department bhermsmeier@albemarle.org / 434-296-5816
6) Pollution prevention/good housekeeping	Laurel Williamson, Watershed Stewardship Manager Facilities and Environmental Services Department lwilliamson2@albemarle.org / 434-296-5816 x3411 John Coles, Environmental Program Manager Albemarle County Public Schools, Building Services jcoles@k12albemarle.org / 434-249-6720

Section 1: Minimum Control Measures #1 – #6, Activities in Year 1

MCM1 – Public Education and Outreach (Permit Sec. Part I.E.1.g(1) – (4))

The County continues its fruitful collaboration with other local MS4 permit holders and partners – the City of Charlottesville, the University of Virginia, the Thomas Jefferson Planning District Commission, Rivanna Conservation Alliance, and others – in implementing education and involvement efforts through the Rivanna Stormwater Education Partnership (RSEP). The TJSWCD serves as the partnership’s coordinating body. The partnership website is <http://www.rivanna-stormwater.org/>. RSEP met ten times during the reporting period to discuss and organize initiatives and share information pertaining to stormwater stewardship and permit compliance.

During this reporting period, Albemarle County and RSEP informed members of the public on stormwater-related topics through a wide variety of strategies. Our activities and materials addressed one or more of the high-priority stormwater issues of [RSEP’s education and outreach plan for 2023-2028](#): runoff volume reductions, potential runoff pollutants, and TMDL impairments. Educational outreach activities conducted during this reporting period are listed in the table below.

Albemarle County & RSEP Education and Outreach Activities (07/01/23 – 06/30/24)					
Date	Activity	Strategy Type	High Priority Issues Addressed		
			Runoff Volume	Runoff Pollutants	TMDL Pollutants
9/7/2023	Stickers & Magnets – Purchase of 500 Love Your Watershed heart magnets, 1000 Love Your Watershed heart stickers, and 200 Love Your Watershed rectangle stickers to give out at events and activities	Alternative Materials	X	X	X
9/16/2023	News story – Highlighting the 4th annual Rivanna River Round-Up event (co-sponsored by RSEP). Story includes interview with Rivanna Conservation Alliance, explaining that stream clean-ups connect people with their local waterways and encourage them to help make a difference in protecting their watershed. https://www.nbc29.com/2023/09/16/annual-rivanna-river-round-up/	Media Materials		X	
9/28/2023	Rivanna Basin Commission Annual Conference – Organized by RSEP Member Thomas Jefferson Planning District Commission. The focus of this year’s discussion was PFAS. Local elected officials participated and 44 people attended. Love Your Watershed stickers were handed out.	Speaking Engagement; Public Education Activity Alternative Materials		X	

Fall 2023	Watershed Patch Program at Libraries – Through the local library system, TJSWCD hosted a watershed reading challenge during the month of September. This challenge consisted of a worksheet where kids could make nature observations and write a pledge about how to protect their watershed in addition to reading 3 books from a set list of books about water related topics. Upon completion, participants received a TJSWCD Watershed patch and RSEP Love your watershed sticker. A total of 85 kids received a patch for completing the reading challenge.	Curriculum Materials	X	X	
Fall 2023	Watershed Education Field Trips –TJSWCD hosted 3 days of watershed education field trips for 530 local students at Camp Albemarle in the Fall. Students looked for plants, animals, and more during a nature walk scavenger hunt; collected and identified benthic macroinvertebrates in the river; learned about food webs; and played a game of Macroinvertebrate Mayhem.	Speaking engagement; Curriculum materials	X	X	X
10/24/2023, 11/10/2023	Social Media Post – Social media post about raking leaves, not using leaf blowers, and keeping leaves out of the storm drain.	Media Materials		X	
1/18/2024	Social Media Post – Social media post about using less salt as a deicer and the costs of salt pollution.	Media Materials		X	
1/31/2024	Visited Murray Elementary School – Visited Murray Elementary School 3rd graders and kindergarteners to thank them for their letter to the Albemarle County Executive about litter getting into waterways. Encouraged their continued participation in local government, discussed the new bag tax in the County and City, and handed out Love Your Watershed stickers. Presented to ~60 students, teachers, and vice principal.	Speaking Engagement; Alternative Materials		X	
2/14/2024	Social Media Post – Social media post for Valentine’s Day promoting Love Your Watershed campaign and keeping streams healthy	Media Materials		X	
2/20/2024	Piedmont Master Gardeners Training – Training 31 new PMG members on stormwater management and pollution control	Speaking Engagement; Training Materials	X	X	X
2/22/2024	Social Media Post – Social media post for National Dog Walking Day reminding pet owners to scoop the poop because bacteria from pet waste is carried by stormwater to local streams and rivers.	Media Materials		X	X
3/18/2024 to 3/24/2024	Social Media Post – Social media post promoting Fix a Leak week and water conservation event	Media Materials	X		
3/22/2024	Social Media Post – Social media post announcing Rain Barrel Workshop with James River Association on April 30th	Media Materials	X		
3/22/2024	Social Media Post – Social media post about redirecting downspouts to vegetated areas to help increase infiltration of stormwater	Media Materials	X		
4/22/2024	Social Media Post – Earth Day post about stormwater runoff and the importance of minimizing runoff for water quality.	Media Materials	X	X	X

4/27/2024	Kid*Vention – An annual family science festival that features local exhibitors. RSEP members tabling content included messaging about: not to put trash in storm drains/pollute streams, pick up pet waste and trash, plant diverse plants & natives, conserve water. 1000+ attendees.	Public Education Activity; Traditional Written Materials; Alternative Materials		X	X
4/30/2024	Rain Barrel Workshop – Rain Barrel Workshop at Dairy Market in Charlottesville, in collaboration with the James River Association. Participants received a rain barrel and learned how to assemble and install it at home.	Public Education Activity	X		
Spring 2024	6th Grade Watershed Field Investigation – Rivanna Conservation Alliance staff and community volunteers conducted the second year of their new watershed education program for 6 th grade classes in all six of the County’s middle schools. Each class attended a full day field experience with stations that covered various topics relevant to aquatic life and the role of watersheds in stream health. Albemarle County’s 6 th grade enrollment is 991 students.	Speaking engagement; Curriculum materials	X	X	X
Spring 2024	4th Grade Watershed Education Field Trips –TJSWCD hosted 11 days of watershed education field trips for Albemarle County 4 th graders at Camp Albemarle during spring of 2024 (956 students total). Activities included a Stream Study, Enviroscapes Watershed Model, and a Nature Hike. On days with larger student attendance we held a fourth station (the Project WET game, the Incredible Journey: Journey of a Water Molecule).	Speaking engagement; Curriculum materials	X	X	X
5/18/2024	Rivanna RiverFest – Sponsored, co-organized, and attended by RSEP members. Visitors to the RSEP table learned about stormwater issues such as runoff volume, runoff pollution, TMDL pollutants, & erosion, and practices that help prevent them. Interactive activities included an Enviroscapes demonstration, Spin the Wheel water quality trivia, and stormwater cornhole. Estimated 1,500 visitors. <u>In promoting the event, organizers reached out specifically to organizations who serve traditionally under-represented ethnic groups in our community.</u>	Public Education Activity; Traditional Written Materials; Alternative Materials	X	X	X
6/11/2024	Healthy Lawns Brochure – Designed and provided 200 printed brochures to the Piedmont Master Gardeners to hand out at their tabling events. Brochures are targeted at lawn maintenance, including fertilizer, native plants, and runoff reduction practices.	Traditional Written Materials	X	X	X
Throughout school year	Climate Activity Kits Program – Albemarle County 4 th and 6 th graders received <u>climate activity kits</u> offered by the Community Climate Collaborative and the Virginia Discover Museum. The kits (for <u>both English and Spanish-speaking students</u>) contains a plant-your-own garden kit, an energy scavenger hunt, a grown-up guide with information on local rebates and energy efficiency resources, and a solar-powered night light. Approximately 2000 students received kits.	Curriculum Materials; Alternative Materials			

MCM2 – Public Involvement and Participation (Permit Sec. Part I.E.2.i)

Public Comments on MS4 Program (Permit Sec. Part I.E.2.i(1)) – Our MS4 Program Plan was revised on May 1, 2024 for compliance with the new permit and posted on our website for input and feedback from the public. No public comments were received about Albemarle County’s MS4 Program during this reporting period.

Stormwater Pollution Complaints (Permit Sec. Part I.E.2.i(2)) – Albemarle County Environmental Services Division (ESD) staff receives stormwater pollution complaints through a variety of avenues. These include reports from fellow County staff, reports from other agencies, and reports from the general public via direct phone calls, emails, or [RSEP’s Water Pollution hotline and online reporting form](#). During the reporting year, five stormwater pollution complaints came through the RSEP hotline or reporting form. County staff responded to all of these with a site visit, phone call, and/or email communication to evaluate each specific situation as appropriate. Some of these incidents were located within the MS4 service area and are described in further detail in the “MCM-3” portion of this annual report.

MS4 Program Webpage (Permit Sec. Part I.E.2.i(3)) – The following webpage is available for anyone to view Albemarle County’s MS4 Program Plan, the latest MS4 annual report, the MS4 Education & Outreach Plan, and our TMDL Action Plans: <https://www.albemarle.org/government/facilities-environmental-services/environmental-services/water-quality>.

Public Involvement Activities (Permit Sec. Part I.E.2.i(5) – (8)) – The following stormwater and watershed activities conducted during the reporting year involved the participation of members of the public and were supported by Albemarle County staff and/or County funds and/or RSEP members. We collaborated with two other MS4 permittees – the University of Virginia and the City of Charlottesville – on many of these activities.

Public Involvement and Participation Activities (07/01/23 – 06/30/24)				
Date	Activity	Category	Metric	Value
8/2/2023, 3/27/2024	Leadership/Guidance for RCA’s Water Quality Monitoring Program – In addition to offering funding, Albemarle County staff sits on the RCA’s Science Advisory Committee and actively provides water-quality monitoring and reporting guidance.	Monitoring; Public meeting	# Science Advisory meetings attended	2
9/15/2023	Rivanna River Round-up: RSEP provided sponsorship funds to Rivanna Conservation Alliance to help provide supplies for litter clean up events in the Rivanna watershed. For the Round-Up, there were 270 volunteers who collected 202 bags of trash collected and 23 tires across 20 cleanup sites that cleaned up over 28 miles of rivers, streams, and trails.	Restoration	# of participants	270
9/28/2023	Rivanna Basin Commission Annual Conference – Organized by RSEP Member Thomas Jefferson Planning District Commission. The focus of this year’s discussion was PFAS. Local elected officials participated and 44 people attended. Love Your Watershed stickers were handed out.	Public Education Activity; Public Meeting	# of participants	44
Fall 2023	Watershed Education Field Trips –TJSWCD hosted 3 days of watershed education field trips for 530 local students at Camp Albemarle in the Fall. Students looked for plants, animals, and more during a nature walk scavenger hunt; collected and identified benthic macroinvertebrates in the river; learned about food webs; and	Public Education Activity	# of participants	530

	played a game of Macroinvertebrate Mayhem. Community members served as field trip assistants			
4/27/2024	Kid*Vention – An annual family science festival that features local exhibitors. RSEP members tabling content included messaging about: not to put trash in storm drains/pollute streams, pick up pet waste and trash, plant diverse plants & natives, conserve water. 1000+ attendees.	Public Education Activity	# of participants	1000+
4/30/2024	Rain Barrel Workshop – Rain Barrel Workshop at Dairy Market in Charlottesville, in collaboration with the James River Association. Participants received a rain barrel and learned how to assemble and install it at home to reduce roof runoff.	Public Education Activity; Pollution Prevention	# of participants	15
5/18/2024	Rivanna RiverFest – Sponsored, co-organized, and attended by RSEP members. Visitors to the RSEP table learned about stormwater issues such as runoff volume, runoff pollution, TMDL pollutants, & erosion, and practices that help prevent them. Interactive activities included an Enviroscape demonstration, Spin the Wheel water quality trivia, and stormwater cornhole. Estimated 1,500 visitors. <u>In promoting the event, we reached out specifically to organizations who serve traditionally under-represented ethnic and economic groups in our community.</u>	Public Education Activity	# of participants	1500
Spring 2024	6th Grade Watershed Field Investigation – Rivanna Conservation Alliance staff and community volunteers conducted the second year of their new watershed education program for 6th grade classes in all six of the County’s middle schools. Each class attended a full day field experience with stations that covered various topics relevant to aquatic life and the role of watersheds in stream health. Albemarle County’s 6th grade enrollment is 991 students.	Public Education Activity	# of participants	991
Spring 2024	4th Grade Watershed Education Field Trips –TJSWCD hosted 11 days of watershed education field trips for Albemarle County 4th graders at Camp Albemarle during spring of 2024 (956 students total). Activities included a Stream Study, Enviroscape Watershed Model, and a Nature Hike. On days with larger student attendance, we held a fourth station (the Project WET game, the Incredible Journey: Journey of a Water Molecule).	Public Education Activity	# of participants	956
6/12/2024	Rain Barrel Workshop – Rain Barrel Workshop in Scottsville, in collaboration with the James River Association. Participants received a rain barrel and learned how to assemble and install it at home to reduce roof runoff.	Public Education Activity; Pollution Prevention	# of participants	13
Throughout school year	Climate Activity Kits Program – Albemarle County 4th and 6th graders received <u>climate activity kits</u> offered by the Community Climate Collaborative and the Virginia Discover Museum. The kits (for <u>both English and Spanish-speaking students</u>) contain a plant-your-own garden kit, an energy scavenger hunt, a grown-up guide with information on local rebates and energy efficiency resources, and a solar-powered night light. Approximately 2000 students received kits.	Curriculum Materials; Alternative Materials	# of participants	2000
Spring, Summer, Fall	Funding for RCA Water Monitoring Program – For many years, the County has helped fund the Rivanna Conservation Alliance’s (RCA) community-based stream monitoring program. This program is	Monitoring	Funds provided to RCA during reporting year	\$25,350

	certified Level III by DEQ; the data collected by this program is incorporated into DEQ’s water quality testing program. With the help of trained volunteers, RCA conducts extensive benthic monitoring throughout the Rivanna basin, as well as bacterial monitoring in the Charlottesville and Albemarle MS4 areas.		# of sampling sites in Albemarle County	5 bacteria sampling sites; 33 benthic sampling sites
Ongoing	Albemarle Conservation Assistance Program (ACAP) – This program assists property owners in Albemarle County with financing and technical assistance for the installation of new water quality best management practices. It serves to fill in gaps in the state-wide Virginia Conservation Assistance Program. The program is administered by TJSWCD. In FY24, 7 projects were approved and 6 projects were completed/paid out using ACAP funding and another 19 projects were approved or paid out with VCAP funds.	Restoration; Pollution prevention	Coverage Area of projects (ACAP)	33,453 s.f.
			Landowner match (ACAP)	\$10,730
			Total cost-share awarded (ACAP)	\$38,972

MCM3 – Illicit Discharge Detection and Elimination (Permit Sec. Part I.E.3.e)

Map & Information Table (Permit Sec. Part I.E.3.e(1)) – Albemarle County’s MS4 map and outfall information table have been updated to reflect any changes to the MS4 that occurred on or before June 30, 2024. The map will be made available to the department within 14 days upon request.

Outfall Screening (Permit Sec. Part I.E.3.e(2)) – During the reporting period, 50 stormwater outfalls located within the County’s MS4 area were surveyed by County staff, using our dry weather screening protocols. The survey includes updating storm sewer outfall locations in our mapping system and conducting a visual screening for signs of illicit discharges. No active illicit discharges were identified during the annual dry weather outfall screening process.

Illicit Discharge Summary (Permit Sec. Part I.E.3.e(3)) – County MS4 and Fire Marshal staff respond to reports of suspected illicit discharges – in coordination with DEQ pollution response staff, as necessary. Reports typically reach MS4 staff via emails or phone calls from the public, other County staff, the RSEP illicit discharge hotline or online report form, and/or by discovering them while in the field. A record of reported suspected illicit discharges and other types of inquiries and complaints is maintained in the Environmental Services Division’s files and in our “Water Resources Issue Tracking” database.

During this reporting period, the County investigated six illicit discharges within the MS4 service area (and several more outside of the MS4 area). Details of each incident within the MS4 area are shown in the table below:

Illicit Discharge Investigations in MS4 Area (07/01/23 – 06/30/24)			
Date Observed/ Recorded	Description of Discharge & Investigation	Follow-up / Resolution	Date Closed
10/17/2023	The Environmental Services Division received a phone call from a construction site operator asking about how to mitigate the damage from an old fuel tank that is leaking.	ESD contacted the Fire Marshal's office who took on the case. They have a process for underground storage tank remediation.	10/17/2023
10/21/2023	A local resident used RSEP's online water pollution report form to alert us of a suspicious smelly discharge located on a hillside above a stream. Albemarle Environmental Services Division staff contacted the Albemarle County Service Authority and then the Fire Marshal's office and the Virginia Department of Environmental Quality who all came out to investigate the situation. The sewage discharge was confirmed to be coming from a private sewer lateral (from a retirement home) which was missing a cleanout cap.	Cleanout cap was repaired to stop the discharge and the site was remediated with lime and straw.	10/30/2023
2/27/2024	While working in the field, ESD staff discovered an apparent sewage leak behind a neighborhood. ESD staff contacted the Albemarle County Service Authority who investigated that day and confirmed no blockage on the ACSA sanitary sewer main. Subsequently, ESD staff informed DEQ, Virginia Department of Health and the Fire Marshal's office about the private sewer discharge. Fire Marshal staff and VDH staff investigated right away.	The discharge was found to be caused by a septic drain field malfunction. VDH instructed the property owner how to repair the issue and promised to monitor the situation to ensure a successful fix.	2/28/2024
3/25/2024	A colleague informed Environmental Services Division staff about a storm drain completely blocked by trash at a new shopping center.	Since this site was still under active construction, ESD staff contacted the Community Development Department for enforcement. CDD contacted the property owner to remove the trash from the storm drain and then confirmed with ESD that the trash had been removed.	4/8/2024
6/5/2024	Environmental Services Division staff received an anonymous complaint (via a colleague) about oil flowing into a car dealership parking lot and oil smell in the air.	ESD staff visited the site on the same day as the complaint was received but could not find anything matching that description.	6/5/2024
6/9/2024	The Fire Marshal's office informed Environmental Services Division staff of a diesel spill that occurred at a gas station when a fill hose from a fueling truck disconnected and spilled approximately 100 gallons of diesel into the parking lot and storm drain. Diesel reached the stream.	Fire Rescue installed an absorbent boom in the stream upon arrival. Fire Marshal's office contacted Virginia Department of Environmental Quality to oversee remediation and enforcement. A private remediation team installed a series of booms.	6/27/2024

MCM4 – Construction Site Stormwater Runoff Control (Permit Sec. Part I.E.4.e(1) – (2))

Inspections and Enforcement Actions: The following table is a summary of erosion and sediment control inspections and enforcement actions conducted for regulated land-disturbing activities in Albemarle County during the reporting year.

Albemarle County enforcement of state and local laws regulating land-disturbing activities (07/01/23 – 06/30/24)						
	Number of new land-disturbing activities	Total disturbed area (acres)	Number of inspections conducted	Number of written warnings	Number of notices to comply	Number of stop-work orders
Regulated land-disturbing, <i>not</i> single-family homes	27	235.92	669	123	69	14
Regulated land-disturbing, single-family homes	271	N/A for building permits	2,501	233	9	1

MCM5 – Post-Construction Stormwater Management (Permit Sec. Part I.E.5.e)

Per VSMP and MS4 requirements, Environmental Services Division staff inspect permanent privately and County-owned stormwater management facilities (SMFs) throughout Albemarle County – both within and outside of the MS4 service area.

Private SMF Inspections (Permit Sec. Part I.E.5.e (1)(a) – (b)) – Our records show that during the reporting period, the Environmental Services Division stormwater inspection staff conducted 318 inspections of privately owned stormwater facilities located in Albemarle County. Records show that enforcement actions consisted of 129 Notices to Comply, accompanied by follow-up communications to ensure maintenance is achieved for those facilities with deficiencies.

Public SMF Inspections (Permit Sec. Part I.E.5.e(2)) – Our records show that during the reporting period, the Environmental Services Division stormwater inspection staff conducted 22 formal and documented inspections at County-operated stormwater facilities. In addition, all County-operated stormwater facilities received one or more inspections by County staff for maintenance purposes.

Significant Maintenance/Repairs of Public SMFs (Permit Sec. Part I.E.5.e(3)) – In addition to routine maintenance of County-operated stormwater facilities (e.g., mowing, trash removal) during this reporting year, Albemarle County conducted the following repairs and significant maintenance:

- A sediment forebay named Branchlands Forebay was dredged to remove accumulated sediment and to restore conveyance and storage capacity.
- A regional stormwater management facility named Woodbrook Lagoon – an offline system – was modified to receive larger and more frequent storm flows from an adjacent urban stream and to reduce the energy of stream flow downstream.
- The stormwater detention basin (#97.05) behind Albemarle High School underwent major repairs, using ACPS funding.

Construction Database Submittal (Permit Sec. Part I.E.5.e(4)) – Albemarle County electronically reported stormwater management facility information through the Virginia Construction Stormwater General Permit (CGP) database for land disturbing activities for which coverage under the General VDPES Permit for Discharges of Stormwater was obtained, in accordance with Part II.B.1 of the MS4 General Permit.

BMP Warehouse Submittal (Permit Sec. Part I.E.5.e(5) – (6)) – Albemarle County has electronically reported stormwater management facilities for this reporting year using the DEQ BMP Warehouse, in accordance with Part III B 1 and 2. In addition, Albemarle County has electronically reported to the DEQ BMP Warehouse 265 records of stormwater management facility inspections conducted during the reporting year, in accordance with Part III B 5. *NOTE: We encountered significant challenges in matching BMP Warehouse identifiers with our stormwater facility database identifiers. To-date, we have submitted inspection records for those facilities for which we could directly find a matching “Tracking ID” in the Warehouse. Significant effort is needed to be able to submit the remaining inspection records.*

MCM6 – Pollution Prevention & Good Housekeeping (Permit Sec. Part I.E.6.y)

Written Procedures Summary (Permit Sec. Part I.E.6.y(1)) – No written standard operating procedures were developed or modified during the reporting period for those activities listed in Part I.E.b of the General Permit.

High-Priority Facilities & SWPPPs (Permit Sec. Part I.E.6.y(2)-(5)) – During the reporting period, Albemarle County had no properties identified as “high-priority facilities” within the MS4 area. Therefore, no SWPPP coverage was needed.

Nutrient Management Plan Status (Permit Sec. Part I.E.6.y(6)) – The status of each MS4-required nutrient management plan (NMP) as of June 30, 2024 is shown in the table below.

Albemarle County properties in MS4 area subject to NMP requirements (07/01/23 – 06/30/24)	
Location	Status
Hollymead Elementary School	Approved
Lakeside Middle School	Approved
Agnor-Hurt Elementary School	Approved
Baker-Butler Elementary School	Approved
Burley Middle School	Expired – new plan to be written in FY25
Woodbrook Elementary School	Approved
Monticello High School	Approved

Training (Permit Sec. Part I.E.6.y(7)) – The following summarizes relevant pollution prevention & good housekeeping training sessions undertaken by Albemarle County employees during the reporting period.

Training Event	Date	Number of Employees	Training Objectives/Topics
OSHA Level II Chemical Spill Response Training Course	Aug 1, 2023	10 Parks & Recreation employees	Spill response procedures, decontamination, personal protective equipment, respiratory protection, chemical storage and handling.
Illicit discharge awareness	Sept 28, 2023	164 ACPS employees	Recognizing and reporting discharges/suspected discharges
Spill prevention, control, and countermeasures (SPCC)	Nov 2023	16 FES employees	Oil handling, transfer, storage, spill response or maintenance of oil equipment
Preventing Stormwater Pollution	March 13, 2024	14 Parks & Rec and FES employees	Recognizing and reporting discharges/suspected discharges and basic good housekeeping BMPs
Pesticide applicator re-certification (R60 -Registered Technician, 3A-Ornamental, and 3B Turfgrass)	Mar 13 & 14, 2024	7 Parks & Rec employees	Safe handling, application, and disposal of pesticides
Underground Storage Tank, Class C (UST-C) training	April 15, 2024	6 ACPS employees	Emergency spill response for underground storage tank sites

Evaluation of MS4 Program Implementation (Permit Sec. Part I.D.3.e)

Upon reviewing this reporting year’s implementation of each minimum control measure, we believe Albemarle County’s program to be effective. As mentioned earlier in this report, the most recent version of the County’s MS4 Program Plan is dated May 1, 2024 and was written to meet the requirements of new five-year permit. No changes have been made to the Program Plan since that date, but the plan will be revised as needed.

Section 2: Local TMDL Action Plan Status Report (Permit Sec. Part II.B.11)

Albemarle County’s MS4 program has two Local TMDL Action Plans:

1. **Combined Local TMDL Action Plan:** Benthic TMDL for the Rivanna River and Bacteria TMDL for the Rivanna River Mainstem, North Fork Rivanna River, Preddy Creek and Tributaries, Meadow Creek, Mechums River, and Beaver Creek Watersheds (dated April 30, 2020)
2. **Local TMDL Action Plan:** Sediment TMDLs for Moores Creek, Lodge Creek, Meadow Creek, and Schenks Branch (dated April 30, 2021).

Albemarle County activities conducted during the reporting year that help address these local TMDLs are described below.

Bacteria Reduction Activities

Many of the bacteria pollution reduction strategies listed in the Combined Local TMDL Action Plan are ongoing and continued during the reporting period. The following table lists some of the activities, listed by bacteria source, conducted during the reporting year.

Activities for Bacteria Reduction, By Source (07/01/23 – 06/30/24)	
Activities	Strategy Description
Domestic Pets:	
Leash ordinance	A County ordinance (Sec. 4-225) requires that dogs be on a leash when not on the owner’s property. This increases the likelihood that an owner will notice when his/her dog defecates and thus increases the likelihood that she/he will pick up and dispose of the pet waste.
Pet waste receptacles at parks	The County’s parks have receptacles into which dog owners are asked to dispose of their pet’s waste. Pet waste bags are also provided at designated dog parks.
Urban Wildlife/Birds:	
Signage against feeding wildlife	County-owned stormwater wet ponds in the MS4 area are posted with signs prohibiting the feeding of wildlife. This is to reduce the potential numbers of birds and other animals that would otherwise be attracted to those ponds.
Trash removal from stormwater ponds	At one of its stormwater wet ponds that receives a high volume of trash from an adjacent shopping center in the MS4 area, the County has installed a floating boom to collect floatables. The trash is removed regularly throughout the year, reducing the trash load downstream – a potential attractant of wildlife to streams.
Other Sources:	
Septage treatment for recreational vehicles	Rivanna Water and Sewer Authority accepts septage from RVs, motorhomes, campers, and charter buses at its wastewater treatment facility at no cost. This reduces the likelihood of raw septage being improperly disposed of in waterways or on land.
Enhanced maintenance	Many of the County’s stormwater management facilities are maintained in such a way as to provide a functional ecosystem that can process bacteria from wildlife

of stormwater facilities	and stormwater sources. This includes strategies to maintain plant diversity, reduce invasive species, and provide for floodplain and wetland functionality.
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Sediment Reduction Activities benefiting Benthic Health

Many of the MCM activities listed in Section 1 of this report contribute towards a reduction in sediment discharges from the MS4.

In addition, the County removed an estimated 1,150 cubic yards of accumulated sediment from a stormwater management facility named Branchlands Forebay. This facility discharges to Meadow Creek and then the Rivanna River mainstem. This work will renew the facility’s capacity to remove sediment from the urban stream system for years to come.

The County also modified another regional stormwater management facility – Woodbrook Lagoon, an offline system receiving and treating runoff during storm events. The modifications will allow the facility to receive more frequent and larger runoff volumes from the adjacent urban stream, which is a tributary of the Rivanna River. The modifications also resulted in additional floodplain areas adjacent to the stream. Both modifications will trap more sediment within the system and reduce flow energy downstream of the site.

The County is also in the process of modifying its ordinance to better protect riparian areas. The ordinance is currently applicable only to sites on which there are land disturbing activities permitting under the VESCP and VSMP. The intended stream buffer ordinance will apply countywide and prohibit disturbances to riparian vegetation within 100 feet of perennial streams in urban areas and within both perennial and intermittent streams in rural areas. While much work was done during the reporting period to develop ordinance language, the ordinance is expected to be adopted by the Board of Supervisors during the 2024-2025 reporting period.

The County – as part of its drainage infrastructure management program – has addressed many areas of channel erosion within the urban areas. These areas are typically located at pipe outfalls – either where the pipe or outfall protection is being undermined or along for a length along the discharge channel.

Finally, the County continues to enforce requirements related to land disturbing activities that are more stringent than Virginia VESCP requirements. These include:

- the land disturbance threshold for small construction activities is 10,000 square feet, as opposed to one acre
- denuded areas must be stabilized with permanent vegetation within nine months after commencing a land disturbing activity (with caveats and opportunities for extensions)
- the zoning ordinance limits the use of fill or waste areas to one year