



RIVANNA SOLID WASTE AUTHORITY
RIVANNA WATER & SEWER AUTHORITY

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July 7, 2025

The Honorable Albemarle County Board of Supervisors
401 McIntire Road
Charlottesville, VA 22902

Re: Quarterly Update – July

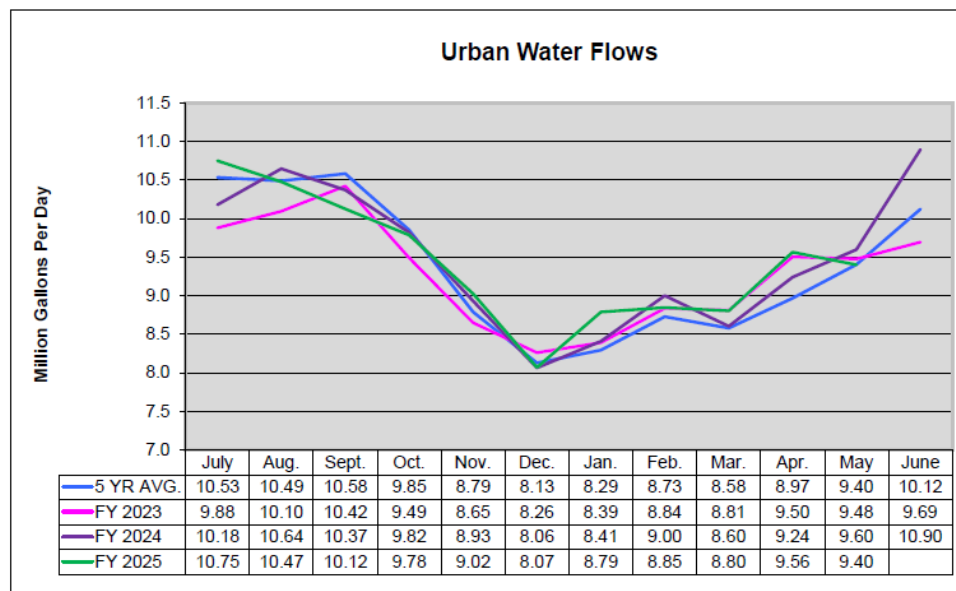
Supervisors:

This quarterly update is to provide general information on the drinking water supply and treatment, wastewater collection and treatment, and refuse disposal and recycling programs managed by the Rivanna Authorities for the benefit of the Albemarle/Charlottesville community, as follows:

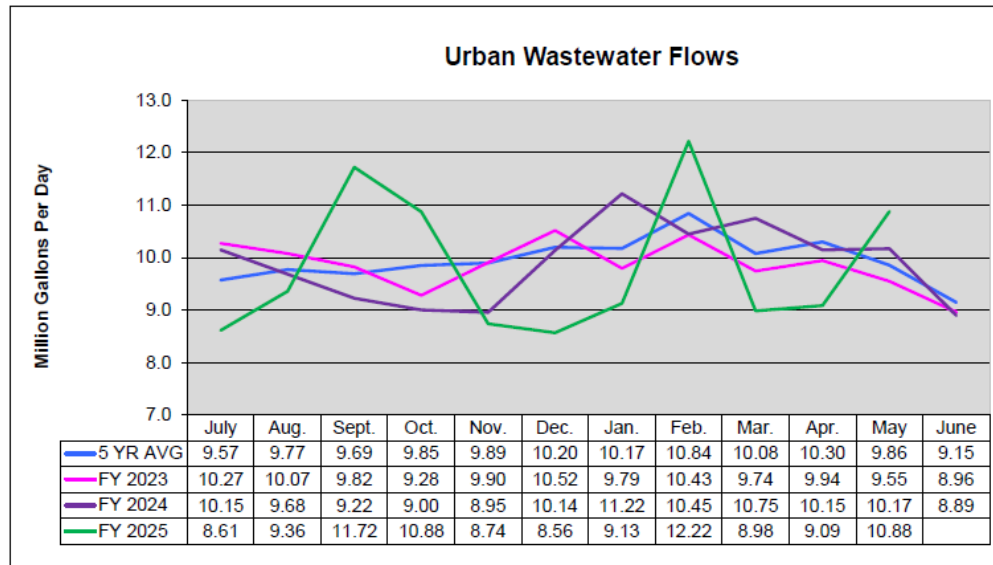
1. Drinking Water Supply:

- Our three Urban reservoirs (Sugar Hollow, South Rivanna, Ragged Mountain) are 100% full with a total storage capacity of about 1.4 billion gallons. Water demand in the Urban area (City and adjacent developed areas of the County) averaged about 9.4 million gallons per day in May.
- Beaver Creek Reservoir (Crozet) is 100% full with a total storage capacity of about 500 million gallons. Water demand in Crozet averaged 0.64 million gallons per day in May.
- Totier Creek Reservoir (Scottsville) is 100% full with a total storage capacity of about 155 million gallons. Water demand in Scottsville averaged 0.044 million gallons (44,000 gallons) per day in May.

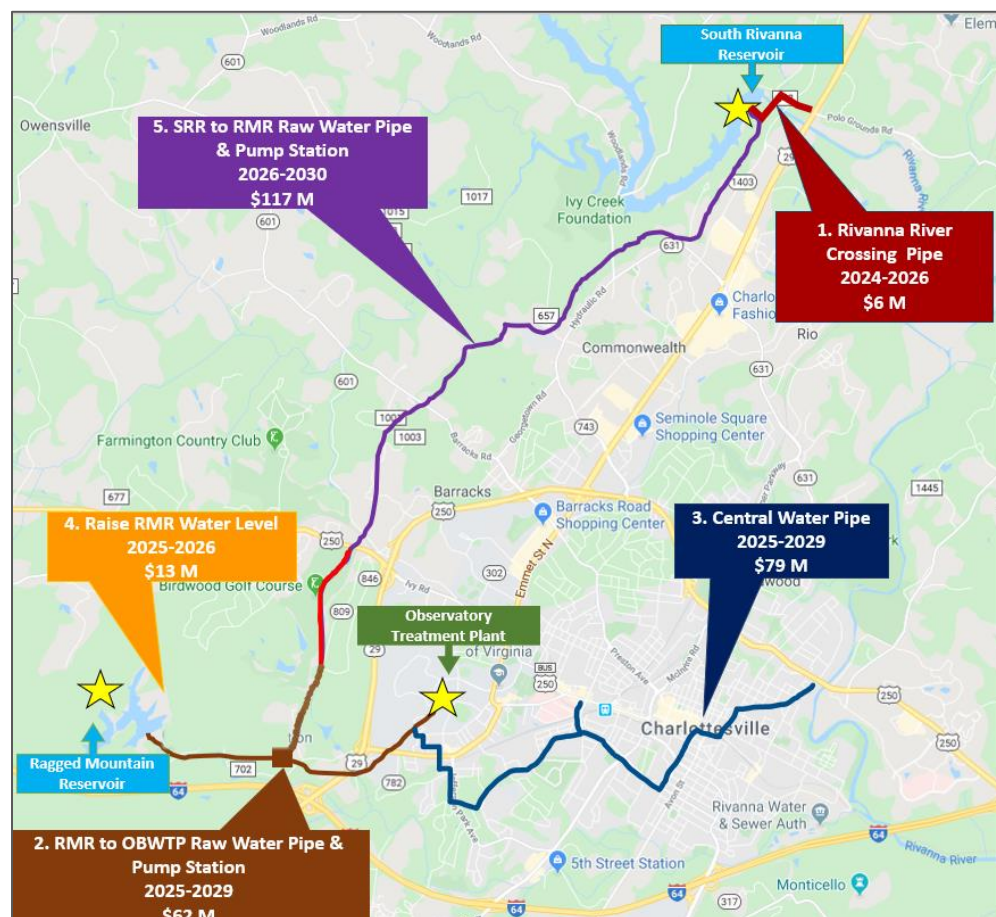
- Production of drinking water for the Urban area averaged 9.40 million gallons per day (MGD) in May 2025 (FY 2025), which was the same production as the five-year average for May (9.40 MGD) as shown by the following graph:



3. Urban wastewater flow for May 2025 (10.88 MGD), including flows from Crozet but not from Scottsville, was above the five-year average for May (9.86 MGD), as shown by the graph below:



4. A general overview of significant current and future drinking water, wastewater and solid waste Capital Improvement Projects is provided below. Cost allocations between the Charlottesville Department of Utilities (Utility funds) and the Albemarle County Service Authority (ACSA), are identified for each water and sewer project, while general funds from the City and County are indicated for any solid waste (refuse and recycling) projects. Several of these projects are part of the community's Water Supply Plan established in 2012 to increase the capacity of our drinking water reservoirs and infrastructure, as shown by the map below.



Construction is underway for the following projects:

a. South Rivanna River Crossing

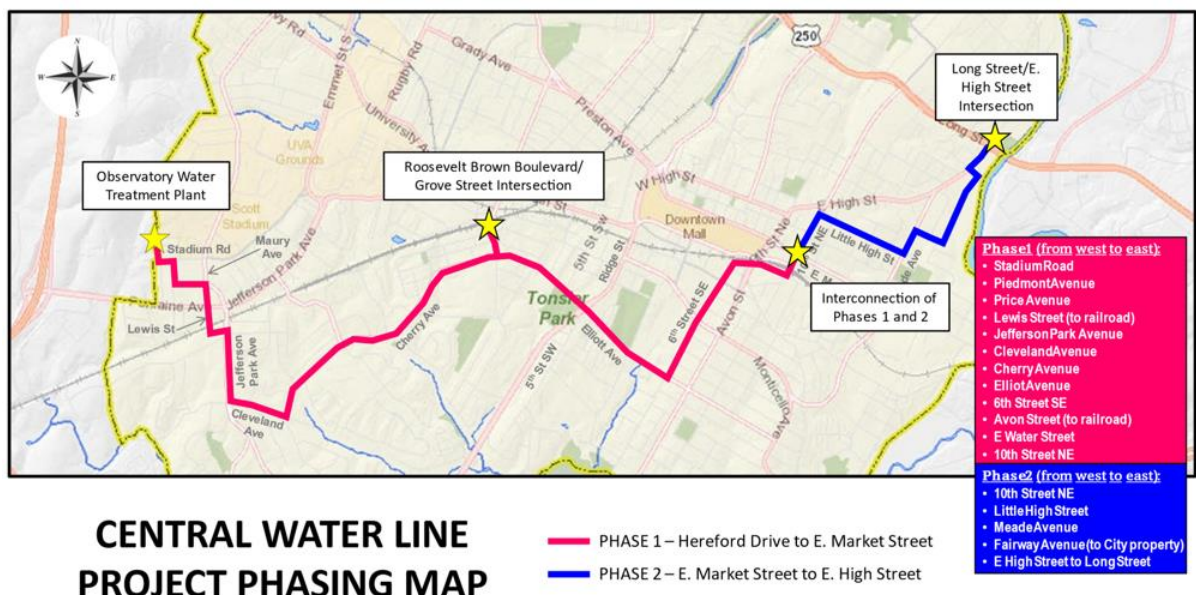
- Scope: Provide a second pipe (24" diameter; 2900 feet long) to convey treated drinking water under the river using trenchless technology. The second pipe will provide a redundant water supply and increase capacity to serve the northern area of the Urban Water System.
- Completion: January 2025 – January 2027
- Cost: \$6.2 million: 100% ACSA

b. Water Pipe and Pump Stations Replacement, Ragged Mtn Reservoir to Observatory Water Treatment Plant

- Scope: Replace four miles of 36" ductile iron water pipe and two pumping stations which convey untreated water from the Ragged Mtn Reservoir to the Observatory WTP. These facilities have reached the end of their service lives and require replacement to reliably provide untreated water to the upgraded Observatory WTP. A project information meeting was held in January 2025 with neighbors bordering the work and others from the community. The contractor is currently installing piping along Hereford Drive near the Observatory WTP to complete that work during UVA's summer break.
- Completion: February 2025 – June 2029
- Cost: \$62 million: 52% ACSA / 48% City Utilities

c. Urban Area "Central Water Line"

- Scope: Provide large diameter piping (24" and 36" ductile iron) to strengthen and more efficiently distribute drinking water for the benefit of City and County residents and businesses. This five-mile-long piping project with two railroad crossings will extend from the Stadium Road area to the Long Street bridge near Pantops. The project will be completed in two concurrent phases of work, as shown by the map below, due to underground conflicts in E. High Street which delayed design of the piping in that area. A second round of information meetings will be scheduled with neighborhoods adjacent to the work before construction begins.
- Completion: October 2025 – December 2029
- Cost: \$79 million: 52% ACSA / 48% City Utilities



d. Ragged Mtn Reservoir Water Level Increase

- Scope: Clearing of vegetation around the reservoir and minor modifications to the intake tower as necessary to increase the normal pool level 12 feet and provide 700 million gallons of additional water storage capacity in the reservoir.

The height of the dam will not be increased as it was built to the maximum elevation when constructed in 2014. The trails around the reservoir were also constructed above the maximum water elevation in 2014 and will not be significantly impacted by the project. Sections of the park and trails may be closed periodically while trees and vegetation near the trails are being cleared during construction.

- Completion: September 2025 - December 2026
- Cost: \$13 million: 80% ACSA / 20% City Utilities

e. Red Hill Water Treatment Plant Upgrade

- Scope: Provide additional building space to house additional water treatment equipment including a granular activated carbon filter.
- Completion: January 2025 – June 2026
- Cost: \$2 million: 100% ACSA, with partial grant from County

f. Baling Facility, Ivy Solid Waste and Recycling Center

- Scope: Replace the existing recycling materials baling facility which is located on leased property and has exceeded its service life. The new facility will include equipment to compress cardboard, mixed paper, and plastic products into separate bales before shipment to a receiving vendor.
- Completion: May 2025 – December 2026
- Cost: \$6 million: 70% Albemarle County / 30% City

g. Moore's Creek Structural and Concrete Rehabilitation

- Scope: Repair of concrete basins and wastewater treatment facilities constructed in the late 1970's.
- Completion: May 2025 – May 2027
- Cost: \$15.5 million: 52% ACSA / 48% City Utilities

h. Moore's Creek Upfits and Gravity Thickener Improvements

- Scope: Renovate the Maintenance and Operations buildings along with repair of the sludge gravity thickener system and secondary clarifier influent valves.
- Completion: May 2025 – May 2027
- Cost: \$11.8 million: 52% ACSA / 48% City Utilities

i. Crozet Wastewater Pump Stations Rehabilitation

- Scope: Replace pumps, valves, and electrical gear in four pump stations constructed in the 1980's which convey wastewater from Crozet to the Moore's Creek Treatment Plant.
- Completion: July 2025 – September 2027
- Cost: \$12.3 million: 100% ACSA

j. Moores Creek Administration Building Renovation and Addition

- Scope: Renovate the existing administration building constructed in the 1980's, including improvements to the Laboratory and Information Technology spaces. The project will also include a building addition to provide spaces for a community education area, staff currently housed in temporary trailers, as well as future staffing.
- Completion: June 2025 – December 2027
- Cost: \$27.6 million: 52% ACSA / 48% City Utilities

Construction will begin in 2026 for the following projects:

k. Crozet Water Treatment Plant GAC Expansion

- Scope: Provide additional building space and equipment to increase the water treatment capacity of the granular activated carbon filter system from 1 to 3 million gallons per day.
- Completion: January 2026 – December 2027
- Budget: \$10 million: 100% ACSA with VDH grant

l. South Rivanna Reservoir to Ragged Mountain Reservoir Pipe and Pump Station

- Scope: Construct a 6.5 mile long, large diameter pipe (36") and pump station to transfer untreated water between the South Rivanna and Ragged Mtn Reservoirs, as required by the community's drinking water supply plan. Complete a new raw water intake structure and pump station at the South Rivanna Reservoir. This infrastructure will increase the amount of water stored at the Ragged Mtn Reservoir from 1.4 to 2.1 billion gallons.
- Completion: February 2026 – December 2030
- Cost: \$117 million: 80% ACSA / 20% City Utilities

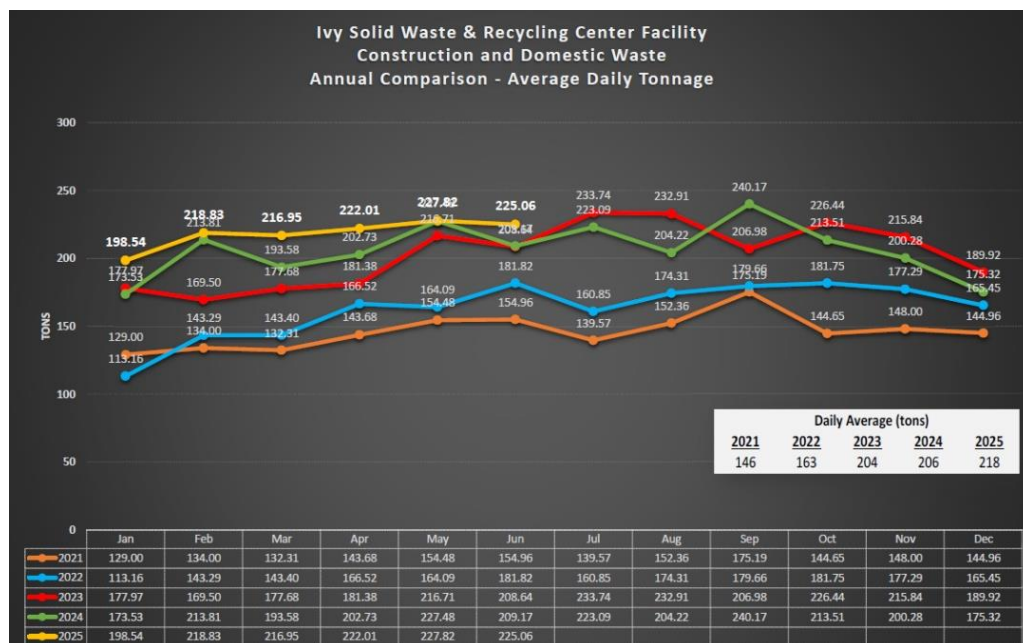
m. Beaver Creek Dam, Pump Station and Piping Improvements

- Scope: Replace the spillway which protects the reservoir dam along with the water pump station and piping which convey untreated water to the Crozet Water Treatment Plant.
- Completion: May 2026 – January 2030
- Cost: \$62 million: 100% ACSA with partial federal NRCS grant

n. Upper Schenks Branch Wastewater Piping Replacement, Phase II

- Scope: Replace sewer piping installed in the mid 1950's, in conjunction with the City's sewer upgrade program, to increase system capacity. The new piping will be located along McIntire Road between the McIntire Recycling Center and Preston Avenue.
- Completion: TBD
- Cost: \$10 - 15 million: 100% City Utilities

5. Average daily refuse volume at the Ivy Transfer Station has increased from 146 tons per day in 2021 to 218 tons per day in 2025, as shown below. Our contract hauler is driving about 15 trailer loads of refuse to Henrico County for disposal each day, Monday – Friday.



6. RSWA Special Collection Days

Spring Special Collections at the Ivy SWRC concluded in May with successful free special collections of electronic waste, household hazardous waste, furniture/mattresses, appliances, and tires. Our next special collection events will be held in September and October.

		Albemarle	Charlottesville
Electronic Waste	Saturday 4/19/2025		
	Customers	313	83
		Albemarle	Charlottesville
Household Hazardous Waste	Friday 4/25/2025		
	Customers	453	126
	Saturday 4/26/2025		
Special Collections	Furniture/Mattresses - Pounds Collected	22,500	4,600
	Saturday 5/3/2025		
	Appliances - Pounds Collected	12,800	3,200
	- Freon units Collected	170	35
	Saturday 5/10/2025		
	Tires Participating Vehicles	162	21
	Saturday 5/17/2025		

Please let me know if you have any questions.

Sincerely,

William I. Mawyer, Jr., P.E.
Executive Director

cc: RSWA Board of Directors
RSWA Board of Directors