



April 7, 2023

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

Re: Quarterly Update – April 2023

Supervisors:

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

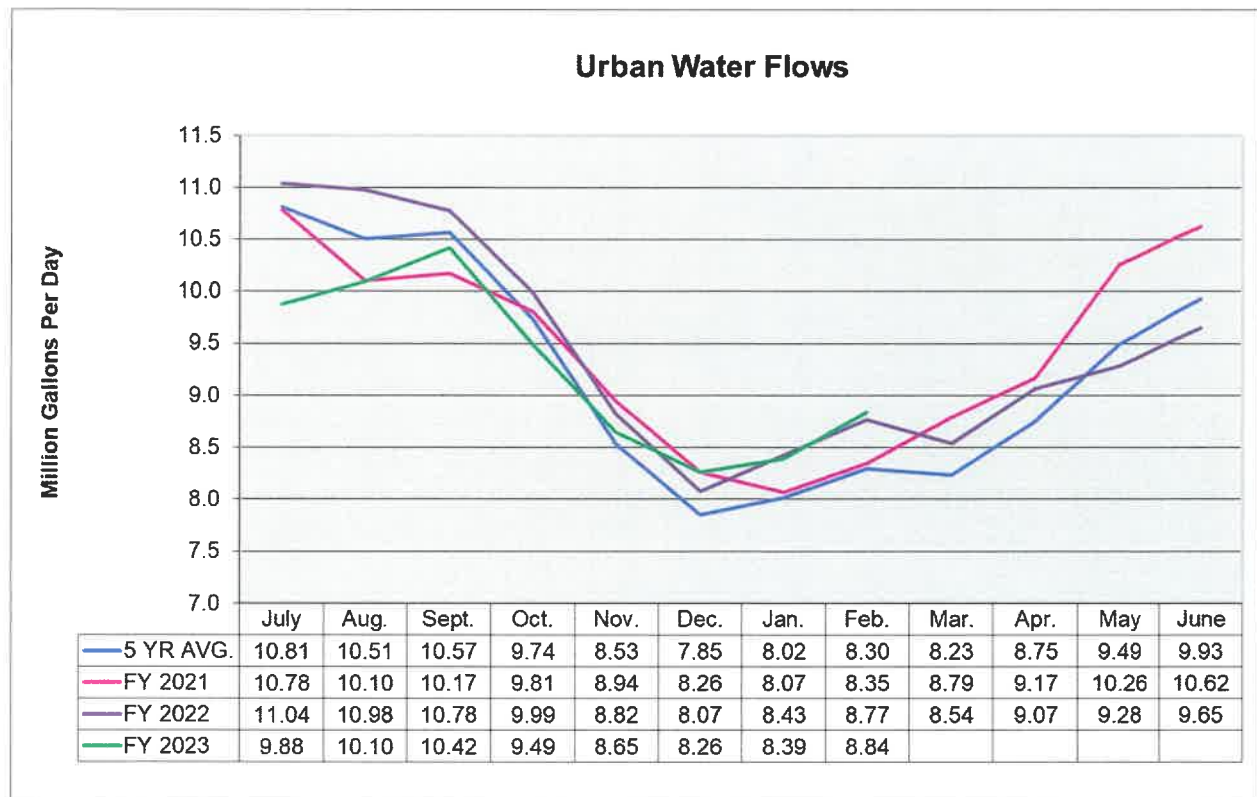
1. Drinking Water Supply as of April 7, 2023:
 - A. We are at optimum storage levels going into the warm summer months as the Urban reservoirs (Sugar Hollow, South Rivanna, Ragged Mountain) are 100% full and overflowing. Similarly, Beaver Creek Reservoir (Crozet) and Totier Creek Reservoir (Scottsville) are 100% full and overflowing.
2. Drought Monitoring as of April 6, 2023:
 - A. U.S. Drought Monitoring Report:
 - Identifies central Virginia as being in a “Moderate Drought” status.
 - B. VDEQ Drought Status Report:
 - Our region is in a “Warning” status for groundwater levels, and a “Watch” status for streamflows. Levels of severity increase from “Watch” to “Warning” to “Emergency”.

Precipitation

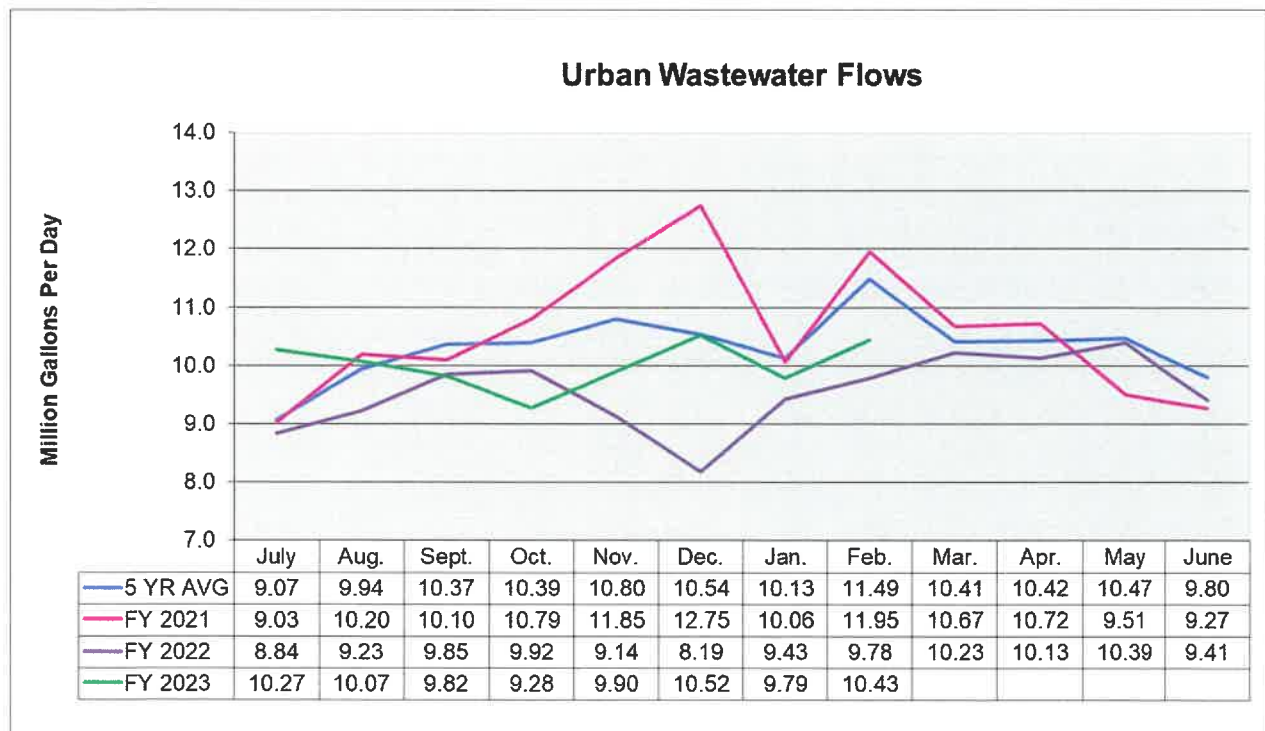
Charlottesville Precipitation				
Year	Month	Observed (in.)	Normal (in.)	Departure (in.)
2021	Total: Jan - Dec	33.82	41.61	-7.79
2022	Total: Jan - Dec	43.53	41.61	+1.92
2023	Total: Jan - Mar	4.59	8.73	-4.14

Source: National Weather Service, National Climatic Data Center.

3. The production of drinking water for the Urban area (Charlottesville and adjacent developed areas of Albemarle, not including Crozet) averaged 8.8 million gallons per day (MGD) in February 2023 (FY 2023), which was above the five-year average for February (8.3 MGD), as shown by the following graph:



4. Urban wastewater flow for February 2023 (10.4 MGD), including flows from Crozet, was below the five-year average for February (11.5 MGD), as shown by the following graph:



5. A general overview of significant current and future drinking water, wastewater and solid waste Capital Improvement Projects is provided below. Cost allocations, typically between the Charlottesville Department of Utilities and the Albemarle County Service Authority (ACSA), are identified for each project.

A. Water Treatment Plant Renovations

Scope: Replace equipment which has reached end-of-service life at the South Rivanna and Observatory Water Treatment Plants. Increase water treatment capacity from 7.7 to 10 million gallons per day at the Observatory Water Treatment Plant.

Completion: May 2020 – October 2023

Cost: \$43 million; 52% ACSA / 48% City

B. Airport Road Water Pumping Station and Piping

Scope: Provide a drinking water pumping station and piping to improve reliability in the northern area of the Urban Water System.

Completion: January 2022 – September 2024

Cost: \$10 million: 100% ACSA

C. Electrical System Replacement, Moores Creek Wastewater Treatment Facility

Scope: Replace major electrical cabling and equipment installed around 1980 which have reached the end of their service lives.

Completion: May 2022 – December 2024

Cost: \$5 million; 52% ACSA / 48% City

D. Red Hill Water Treatment Plant Upgrade

Scope: Expand the building to provide additional spaces for treatment, laboratory, and a granular activated carbon filter.

Completion: December 2023 – December 2024

Cost: \$800,000

*50% ARPA funds from Albemarle County, 50% ACSA

E. South Rivanna River Crossing

Scope: Install a second pipe (24") to convey treated drinking water under the river using trenchless technology to provide a redundant water supply to serve the northern area of the Urban Water System.

Completion: December 2023 – September 2025

Cost: \$7 million: 100% ACSA

F. Beaver Creek Dam Spillway, Pump Station and Piping Modifications

Scope: Provide modifications to the dam to control the flow of water across the spillway during major storm events, as required by Virginia Dam Safety Regulations. Replace the existing pumping station and piping which convey untreated water to the Crozet Water Treatment Plant. Construct a temporary road to maintain traffic on Browns Gap Turnpike during construction of the spillway.

Completion: August 2025 – June 2028

Cost: \$43 million: 100% ACSA

Federal funding (55%) will be requested

G. Urban Area "Central Water Line"

Scope: Piping improvements to more efficiently convey drinking water and strengthen the Urban Area Drinking Water System for the benefit of the City and the County. This five-

mile-long piping project will extend from the Stadium Road area to the Long Street / E. High Street bridge and follow a route which includes: Stadium Road, Piedmont Avenue, Price Avenue, Lewis Street, Jefferson Park Avenue, Cleveland Avenue, Cherry Avenue, Elliott Avenue, 6th Street SE, Avon Street, 10th Street NE, Little High Street, 11th Street NE, E. High Street, and a connection near Roosevelt Brown Boulevard. Detailed engineering surveys and design are underway.

Completion: April 2024 – December 2028

Cost: \$41 M; 52% ACSA / 48% City

H. Water Pipe and Pump Stations Replacement, Ragged Mountain Reservoir to Observatory Water Treatment Plant

Scope: Replace water pipes and pump stations which convey untreated water from the Ragged Mtn Reservoir to the Observatory WTP. These facilities have reached the end of their service lives, or will require significant upgrades to adequately support the increased treatment capacity from 7.7 to 10 mgd at the upgraded Observatory WTP.

Completion: August 2024 – December 2028

Cost: \$44 million; 52% ACSA / 48% City

I. Upper Schenks Branch Wastewater Piping Replacement, Phase II

Scope: Replace sewer piping installed in the mid 1950's to increase system capacity in conjunction with the City's sewer upgrade program. The new piping will be located along McIntire Road between the McIntire Recycling Center and Preston Avenue.

Completion: TBD

Cost: \$5 million: 100% City

J. South Rivanna Reservoir to Ragged Mountain Reservoir Pipe

Scope: Construct a pipe to transfer untreated water between the South Rivanna and Ragged Mountain Reservoirs to increase water storage capacity, as required by the community's drinking water supply plan completed in 2012.

Completion: 2026 - 2030

Cost: \$80 million: 80% ACSA / 20% City

K. Southern Albemarle Convenience Center

Construction is nearing completion for a recycling and bagged residential refuse collection center in the Esmont area of Albemarle County.

Completion: September 2022 – May 2023

Cost: \$1.6 million: 100% Albemarle County

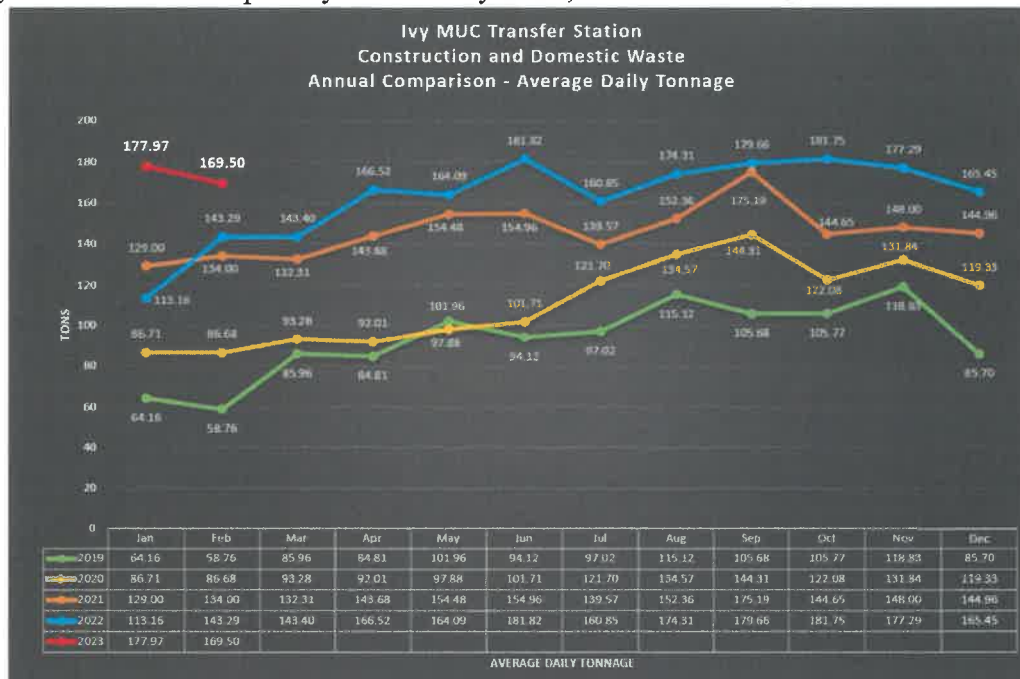
L. Recycling Baling Facility, Ivy Material Utilization Center

Scope: Replace the existing recycling materials baling facility which is located on leased property and has exceeded its service life. A new baling facility is essential to have an effective recycling program. The new facility will include equipment to compress cardboard, mixed paper, and plastic products into separate bales before shipment to a receiving vendor.

Completion: June 2024 - December 2025

Cost: \$6.4 million; 70% Albemarle County / 30% City

6. Average daily refuse volume at the Ivy Transfer Station has increased from 59 tons per day in February 2019 to 170 tons per day in February 2023, as shown below:



Spring Refuse Amnesty Days

The Ivy MUC will be the site for Spring 2023 eWaste, Household Hazardous Waste, and Bulky Waste free disposal days on the following dates:

eWaste Collection – free disposal of electronic waste

- Saturday, April 15
- Reservations Required. Please visit: <https://www.rivanna.org/ewaste/> to register after 10AM on March 15

Registrations fill up so we encourage you to register early.



Residential Household Hazardous Waste Collection

- Friday and Saturday, April 21 and April 22

Bulky Waste Amnesty Days

- Furniture/Mattresses: April 29
- Appliances: May 6
- Tires: May 13



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