



### MEMORANDUM

**TO: THE HONORABLE ALBEMARLE COUNTY BOARD OF SUPERVISORS**

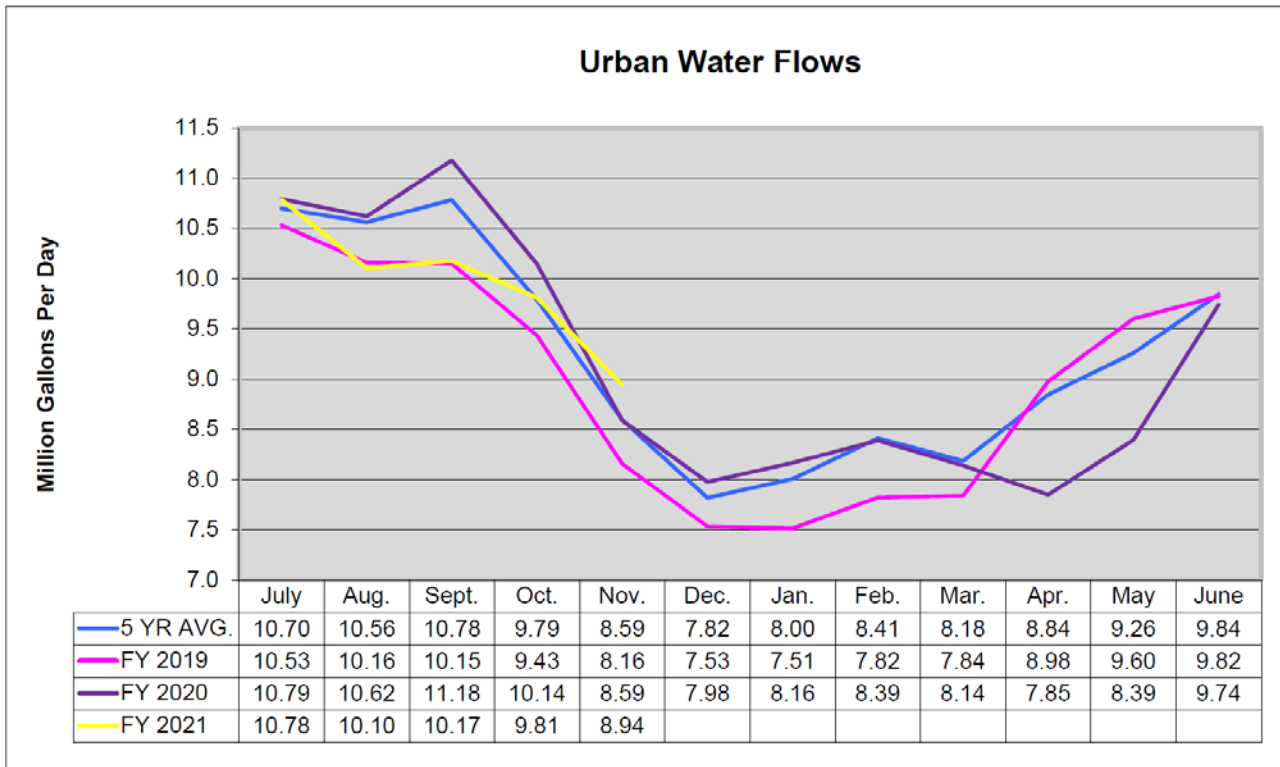
**FROM: BILL MAWYER, EXECUTIVE DIRECTOR  
RIVANNA WATER & SEWER AUTHORITY  
RIVANNA SOLID WASTE AUTHORITY**

**SUBJECT: QUARTERLY UPDATE**

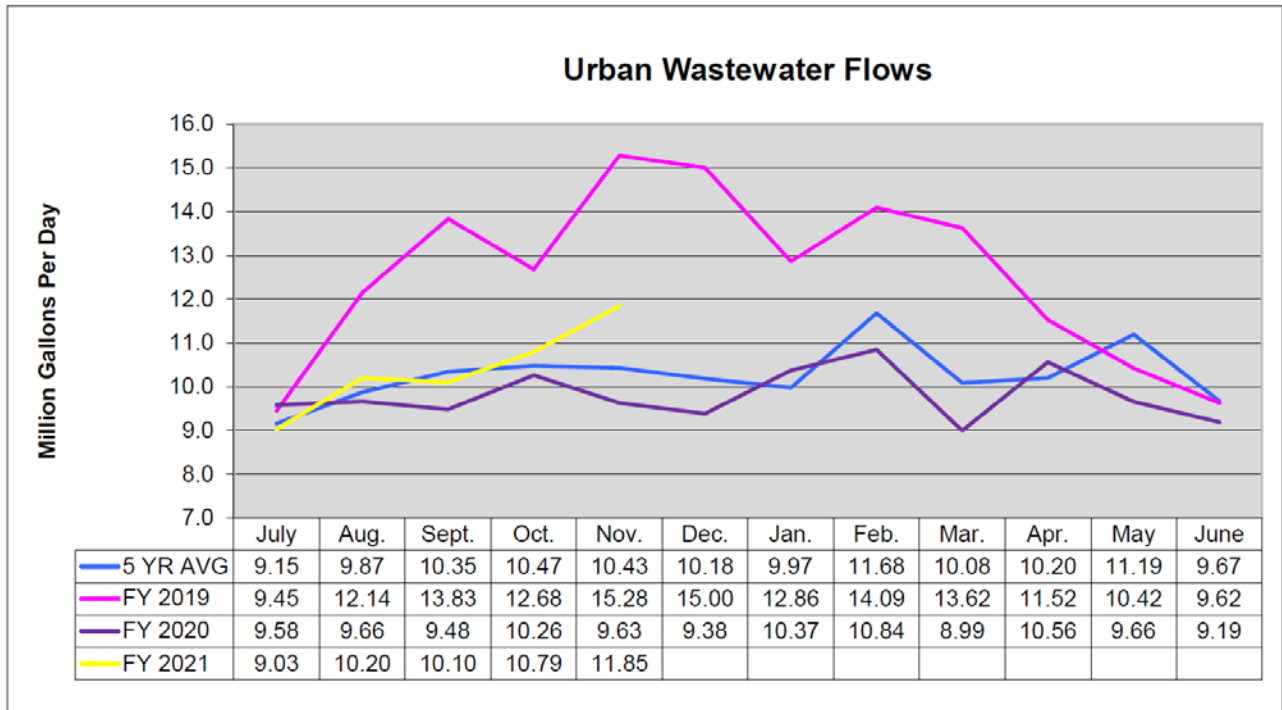
**DATE: JANUARY 2021**

This quarterly update is to provide general information on the drinking water, wastewater and solid waste programs managed by the Rivanna Authorities, as follows:

1. The production of drinking water for the Urban area (Charlottesville and adjacent developed areas of Albemarle) averaged 8.94 million gallons per day (mgd) in November 2020, which was slightly above the five-year average for November (8.59 mgd), as shown by the following graph:



2. Urban wastewater flow for November 2020 (11.85 mgd), including flows from Crozet, was above the five-year average for November (10.43 mgd), as shown by the following graph:



3. A general overview of significant current and upcoming Capital Improvement projects is provided below. Costs for these projects are typically shared between the City (48%) and the Albemarle County Service Authority (52%).

**A. Water Treatment Plant Improvements**

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: 2020 – 2023

Cost: \$43 million

**B. Crozet Water Treatment Plant Improvements**

Scope: Replace equipment which has reached end-of-service life. Increase water treatment capacity from 1 to 2 million gallons per day.

Completion: March 2021

Cost: \$8.5 million: 100% ACSA

**C. Crozet Flow Equalization Tank**

Scope: Provide a one-million-gallon wastewater tank to store peak wet weather flows which infiltrate the sewer system.

Completion: October 2020 – December 2021

Cost: \$5.4 million

- D. Sugar Hollow Dam – Rubber Crest Gate Replacement and Intake Tower Repairs  
 Scope: Replace the inflatable rubber device that sits on top of the concrete dam and regulates the normal water level in the reservoir. The gate is over 20 years old, and has reached the end of its service life. Concrete repairs will be completed on the intake tower.  
 Completion: October 2020 – September 2021  
 Cost: \$1.7 million
- E. Exterior Lighting Improvements, Moores Creek AWRRF  
 Scope: Replace exterior lighting fixtures and poles on the 80 acre facility to improve safety and comply with Albemarle County lighting requirements.  
 Completion: December 2020 – February 2022  
 Cost: \$1.9 million
- F. South Rivanna to Ragged Mountain Reservoir Pipeline  
 Scope: Determine alignment, acquire easements, and construct a pipeline to transfer raw (untreated) water between the South Rivanna Reservoir and the Ragged Mountain Reservoir, as required by the Community Water Supply plan.  
 Completion: 2027 - 2033  
 Cost: \$80 million: 80% ACSA / 20% City
- G. Ragged Mountain Reservoir to Observatory Water Treatment Plant Raw Water Line and Raw Water Pump Station  
 Scope: Replace two raw water pipes which have been in service for more than 70 and 110 years, respectively. Replace the existing Stadium Road and Royal raw water pump stations, which have exceeded their service lives or will require significant upgrades, to support the Observatory Water Treatment Plant expansion.  
 Completion: 2023 - 2026  
 Cost: \$18 million
- H. Airport Road Water Pumping Station and Piping  
 Scope: Provide a water pumping station and piping to improve the connectivity and reliability of the Urban Water System.  
 Completion: September 2021 – December 2022  
 Cost: \$7.6 million
- I. Beaver Creek Dam and Pump Station 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 raw water pumping station. Discussions are on-going with VDOT about construction of a temporary road to bypass the dam construction.  
 Completion: 2024 – 2026  
 Cost: \$27 million: 100% ACSA
- J. Urban Area “Central” Waterline  
 Scope: Water piping improvements to increase capacity and maintain pressure in the urban drinking water system.  
 Completion: 2022 - 2027  
 Cost: \$13 M

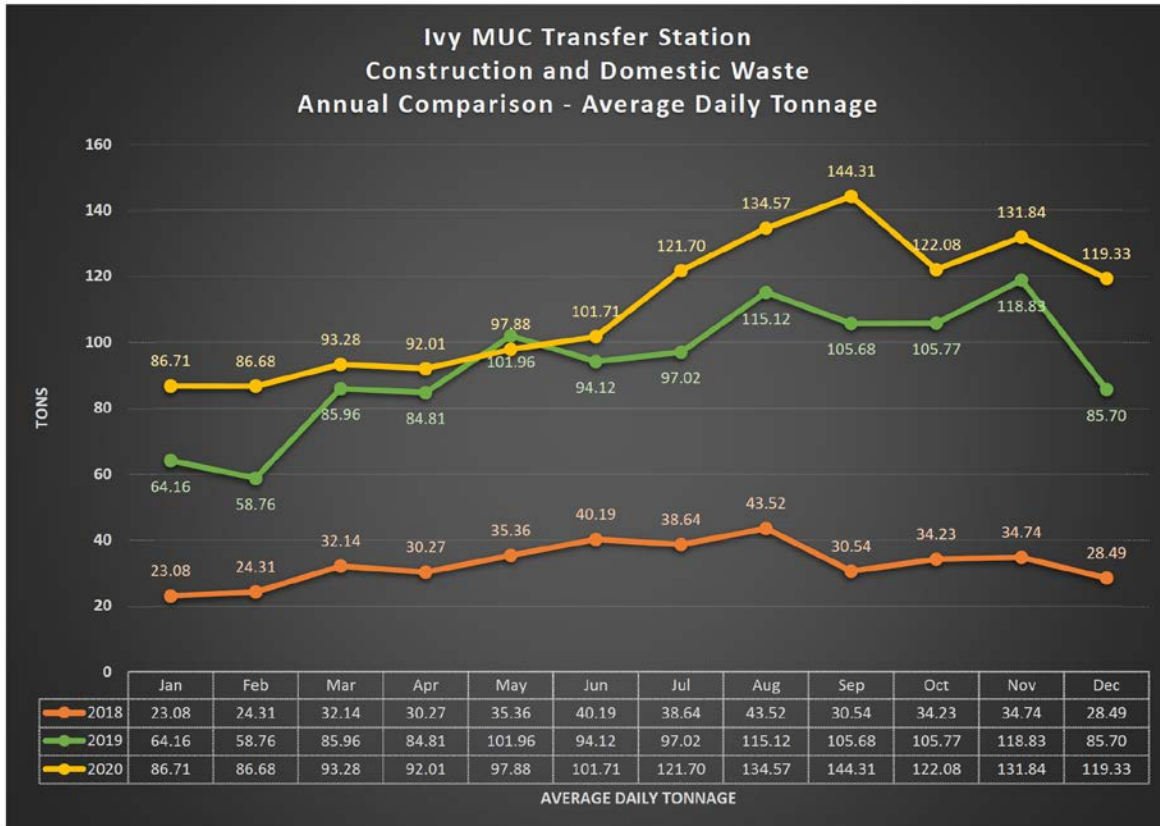
K. Upper Schenks Branch Wastewater Piping Replacement

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 underground piping will be located near McIntire Road.

Completion: TBD

Cost: \$4 million: 100% City

4. By increasing the number of days/week the Transfer Station is open and lowering the disposal fee from \$66/ton to \$52/ton, refuse volume at the Ivy Transfer Station has increased from 28.49 tons per day in December 2018 to 119.33 tons per day in December 2020, as shown below:



Please let me know if you have any questions.

cc: RSWA Board of Directors  
RWSA Board of Directors