

MEMORANDUM

TO: THE HONORABLE CHARLOTTESVILLE CITY COUNCIL

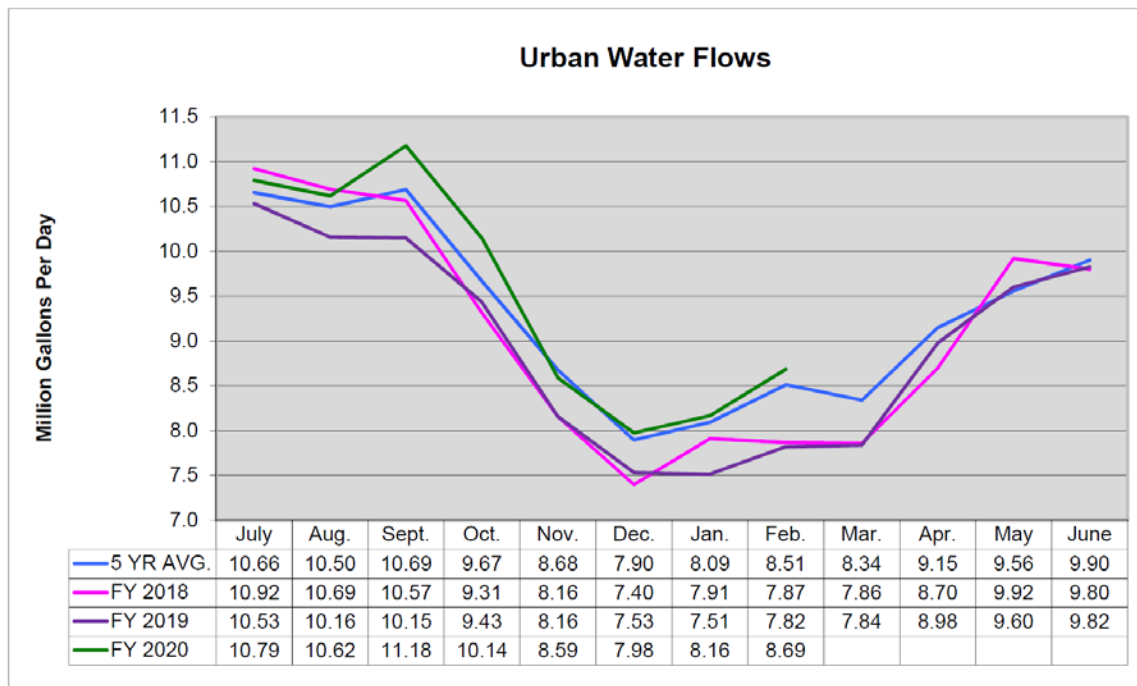
**FROM: BILL MAWYER, EXECUTIVE DIRECTOR
RIVANNA WATER & SEWER AUTHORITY
RIVANNA SOLID WASTE AUTHORITY**

SUBJECT: QUARTERLY UPDATE

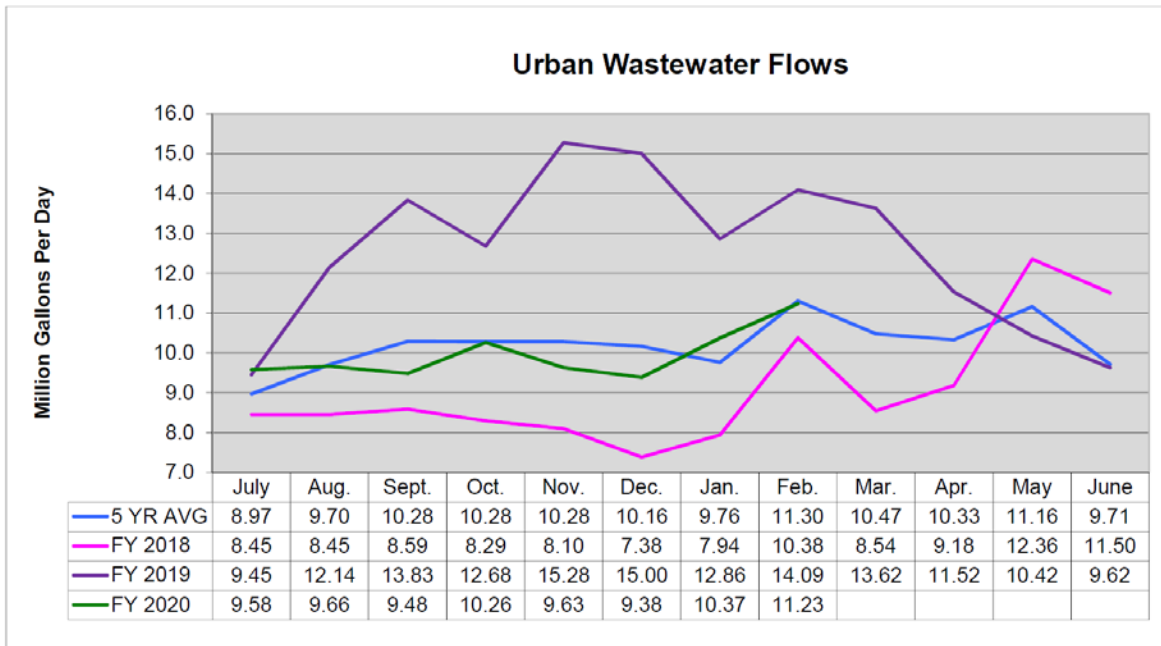
DATE: APRIL 2020

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

1. First, we would like to provide assurance that the public drinking water system in our community continues to be safe and in good supply. Our multi-barrier water treatment and disinfection processes remove or inactivate viruses. We are working closely with your Utilities staff to maintain all drinking water and wastewater treatment services. Recycling services at the McIntire Road Center also continue with a moderate reduction in the number of customers.
2. The production of drinking water for the Urban area (Charlottesville and adjacent developed areas of Albemarle) averaged 8.69 million gallons per day (mgd) in February 2020, which was consistent with the five-year average for February (8.51 mgd), as shown by the following graph:



3. Urban wastewater flow for February 2020 (11.23 mgd), including flows from Crozet, was consistent with the five-year average for February (11.30 mgd), as shown by the following graph:



4. A general overview of significant current and upcoming Capital Improvement Projects includes:

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. South Rivanna Dam – Gate Repairs

Scope: Replace or repair gates used to release water from the reservoir.

Completion: 2020

Cost: \$900,000

C. Sugar Hollow Dam – 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 made on the intake tower.

Completion: 2020 - 2021

Cost: \$1.1 million

D. South Rivanna to Ragged Mountain Reservoir Pipeline Right-of-Way Acquisition

Scope: Determine alignment and acquire easements for a nine-mile-long pipeline and pumping station to transfer raw water between the South Rivanna Reservoir and the Ragged Mountain Reservoir, as required by the Community Water Supply Plan.

Completion: 2021
Cost: \$2.3 million

E. Urban Water Demand and Safe Yield Study

Scope: Assess the current capacity of the Urban water supply reservoirs as well as the community's future water demand to ensure our long-term water supply is adequate, as required by the Ragged Mountain Dam Agreement.

Completion: April 2020
Cost: \$154,000

F. Urban Finished Water Infrastructure Master Plan

Scope: Update our drinking water infrastructure master plan to ensure future water distribution piping projects are planned to effectively serve customers throughout the system.

Completion: June 2020
Cost: \$253,000

G. Ragged Mountain Reservoir to Observatory Water Treatment Plant Raw Water Line and Raw Water Pump Station

Scope: Replace two 18-inch cast iron 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 - 2027
Cost: \$18 million

H. 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 underground piping would be located near McIntire Road.

Completion: TBD
Cost: \$4 million

5. Refuse disposal and recycling services are being improved as follows:

- Used cooking oil is now being collected at the McIntire Recycling Center.
- The construction of a permanent recycling convenience center at the Ivy Material Utilization Center is underway.
- A study is underway to evaluate composting opportunities for organic wastes.

Please let me know if you have any questions. I will be glad to provide additional information.

cc: RSWA Board of Directors
RWSA Board of Directors