



MEMORANDUM

TO: THE HONORABLE ALBEMARLE COUNTY BOARD OF SUPERVISORS

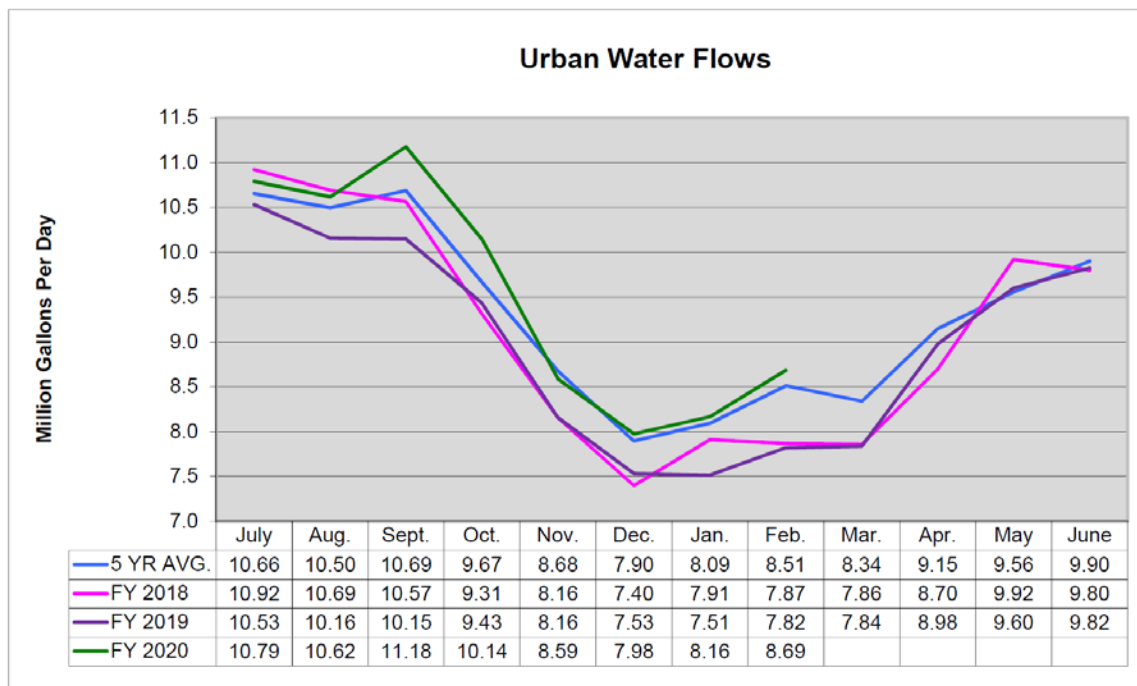
**FROM: BILL MAWYER, EXECUTIVE DIRECTOR
RIVANNA WATER & SEWER AUTHORITY
RIVANNA SOLID WASTE AUTHORITY**

SUBJECT: QUARTERLY UPDATE

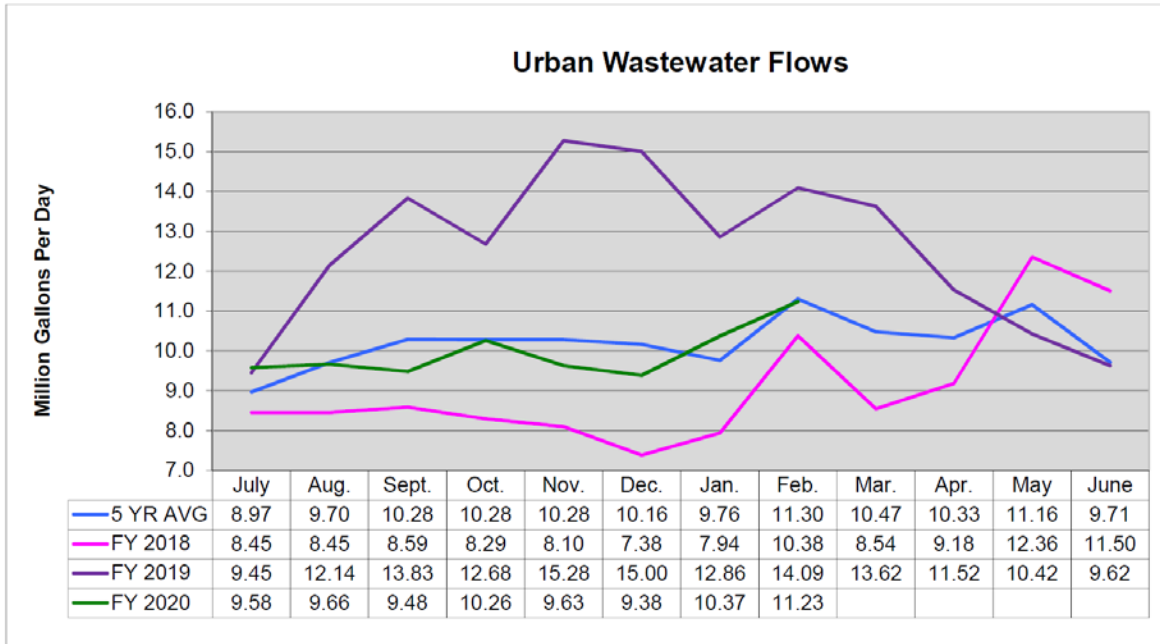
DATE: APRIL 2020

This quarterly update is to provide information on our drinking water and wastewater projects currently in the planning, design or construction phases, as well as an update on our solid waste programs, 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 the Albemarle County Service Authority to maintain all drinking water and wastewater treatment services. Refuse transfer services at the Ivy Material Utilization Center, as well as recycling services at the McIntire Road Center, are continuing 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 RWSA Capital Improvement Projects includes:

A. Crozet Water Treatment Plant Improvements

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

Completion: 2018 - 2021

Cost: \$8.5 million

B. Crozet Flow Equalization Tank

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

Completion: July 2020 – September 2021

Cost: \$4.9 million

C. 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

D. South Rivanna Dam – Gate Repairs

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

Completion: 2020

Cost: \$900,000

- E. 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: 2021
 Cost: \$1.1 million

- F. South Fork Rivanna to Ragged Mountain Reservoir Pipeline Right-of-Way Acquisition
 Scope: Determine alignment and acquire right-of-way permits or easements for a pipeline and pumping station to transfer raw (untreated) water between the South Rivanna Reservoir and the Ragged Mountain Reservoir, as set forth by the Community Water Supply Plan. Acquisition efforts continue. Offers have been made to nine of 11 private property owners, with one acceptance. Documents are also being prepared for three public property owners (VDOT, City, County School Board).
 Completion: 2021
 Cost: \$2.3 million

- G. Urban Water Demand and Safe Yield Study
 Scope: Assess the 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

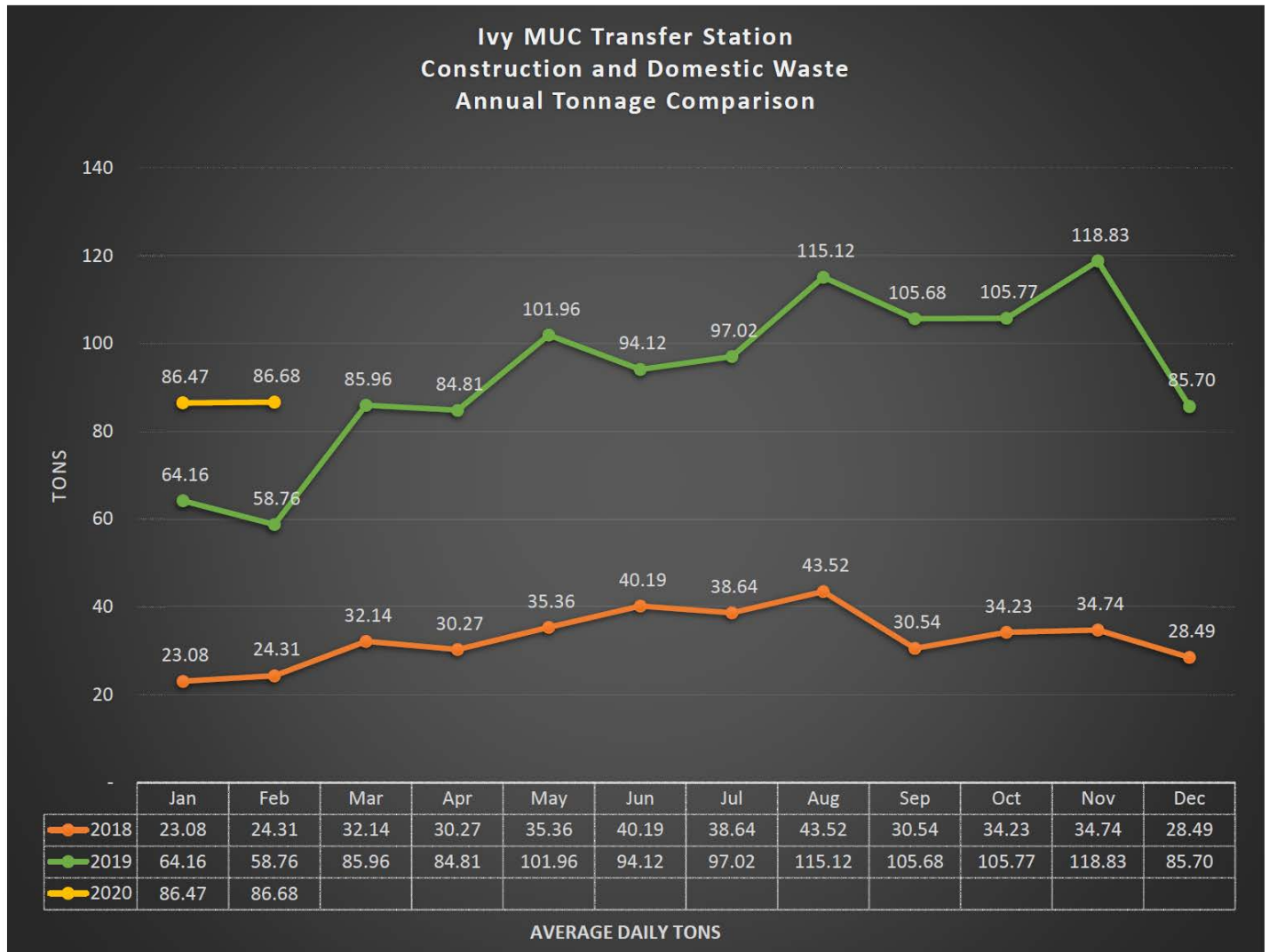
- H. Airport Road Water Pumping Station and Piping
 Scope: Provide a water pumping station and piping to improve the reliability of the Urban Water System.
 Completion: 2021 – 2022
 Cost: \$5.8 million

- 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 new Dam Safety Regulations. Replace the existing raw water pumping station.
 Completion: 2023 – 2026
 Cost: \$27 million

- J. 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

- 5. Recycling Convenience Center, Ivy Material Utilization Center
 Scope: Provide recycling facilities including a paved access road, gates and 10 containers.
 Completion: March – July 2020
 Cost: \$350,000

6. Refuse volume at the Ivy Transfer Station has increased from 24 tons per day in February 2018 to 86 tons per day in February 2020, as shown below:



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