



RIVANNA SOLID WASTE AUTHORITY
RIVANNA WATER & SEWER AUTHORITY



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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: OCTOBER 2019

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. 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

2. Crozet Flow Equalization Tank

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

Completion: 2020 - 2022

Cost: \$4.8 million

3. Scottsville Water Treatment Plant – Finished Water Meter Improvements

Scope: Provide a meter to record treated water flows out of the water treatment plant.

Completion: November – April 2020

Cost: \$145,000

4. 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: \$40.5 million

5. 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 made on the intake tower.

Completion: 2020 - 2021

Cost: \$1.1 million

6. South Fork Rivanna to Ragged Mountain Reservoir Pipeline Right-of-Way

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.

Completion: 2017 - 2021

Cost: \$2.3 million

7. 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: November 2019

Cost: \$154,000

8. 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: April 2020

Cost: \$253,000

9. Rt. 29 Water Pumping Station

Scope: Provide a water pumping station located near the future intersection of Meeting Street and Airport Road to improve the reliability of the Urban Water System.

Completion: 2021 - 2022

Cost: \$2.3 million

10. 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: \$23 million

11. 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 piping would be located near McIntire Road.

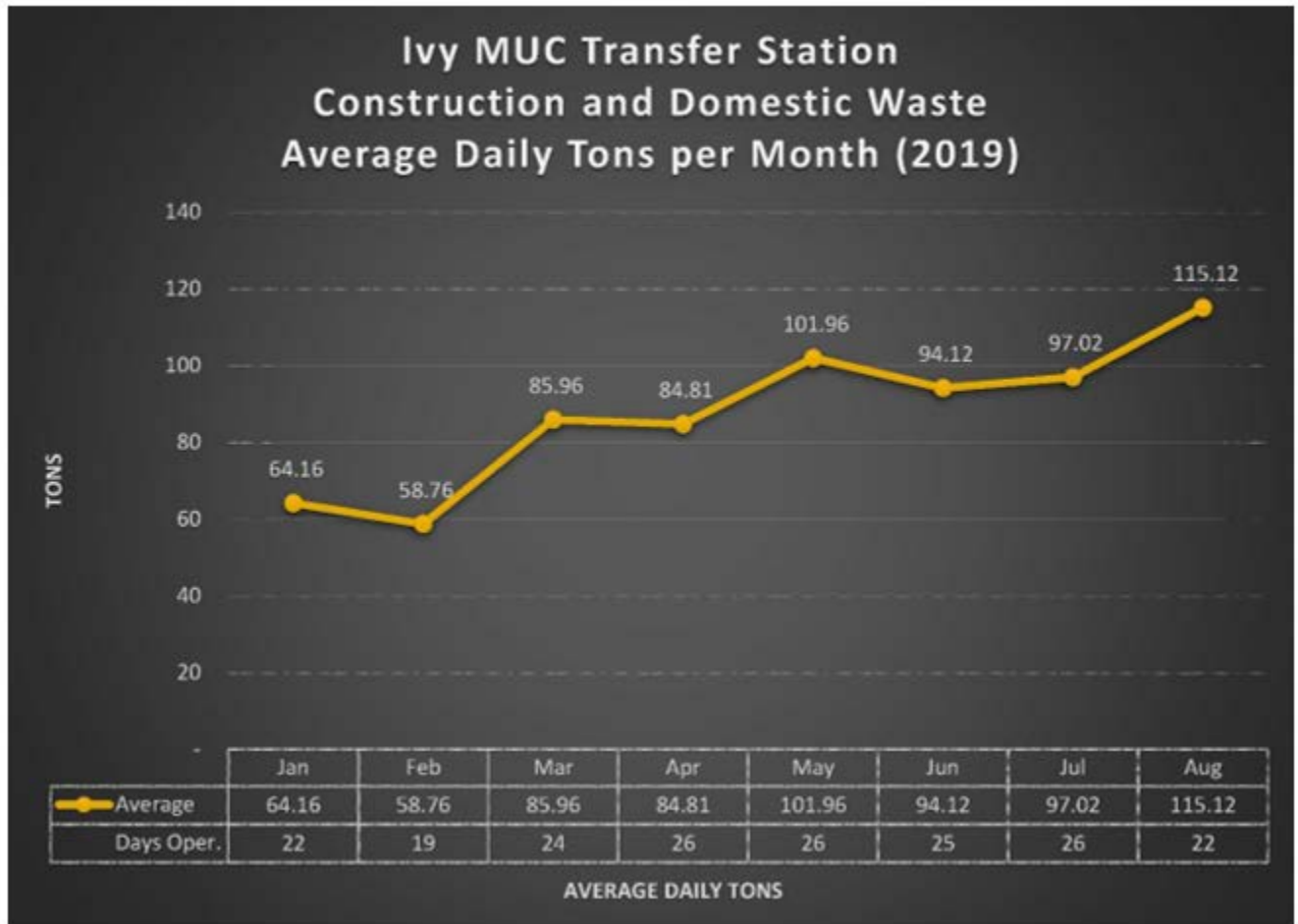
Completion: TBD

Cost: \$4 million

12. Refuse disposal and recycling services have been improved at the Ivy Material Utilization Center as follows:

- A new and larger refuse transfer center was completed in September 2018
- Refuse disposal charges were reduced in January 2019
- The transfer center increased its service days by opening on Mondays starting on March 18, 2019.
- Oyster shells are being collected at the McIntire Recycling Center.
- Design is underway for a recycling convenience center at the Ivy Material Utilization Center.
- A study is underway to evaluate composting opportunities for organic wastes.

- Transfer volume has increased from 64 tons per day in January 2019 to 115 tons per day in August 2019, 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