



**Rivanna Water & Sewer Authority**  
**Rivanna Solid Waste 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: JANUARY 2019**

This quarterly update is to provide information on our drinking water, wastewater, and solid waste projects currently in the planning, design or construction phases. A general overview of significant current and upcoming Capital Improvement Projects follows:

1. Birdwood Raw Water Main

Scope: This project includes installation of approximately 6,000 linear feet of 36-inch raw water piping along the eastern property boundary of the Birdwood property while the golf course is being reconstructed.

Completion: November 2018 - October 2019

Cost: \$4 million

2. 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 at the Crozet Water Treatment Plant.

Completion: 2018 - 2020

Cost: \$8.5 million

3. Crozet Flow Equalization Tank

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

Completion: 2019-2020

Cost: \$4.8 million

4. 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 water pumping station and install a hypolimnetic aeration system in the reservoir.

Completion: 2021 – 2023

Cost: \$23 million

5. 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: 2019 - 2023

Cost: \$34.7 million

6. 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: 2019 - 2021

Cost: \$1.1 million

7. 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

8. 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

9. 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: August 2019

Cost: \$154,000

10. 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: January 2020

Cost: \$253,000

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

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