A Little History

- The Albemarle County Service Authority (ACSA) was founded in 1964 by the County Board of Supervisors with the Crozet community as its sole customer.

- In the 1960s the South Rivanna Dam was constructed and several subdivisions were developed throughout the County.

- In the late 1960s and early 1970s, these systems were acquired by the County for the ACSA, and the County purchased water from the City of Charlottesville supply to provide all these areas with public water, and eliminate their well systems.

- In 1973, the Rivanna Water and Sewer Authority (RWSA) was formed and became the wholesale provider of water and wastewater treatment for the City and ACSA.

- The ACSA, more than 50 years later, provides water distribution and wastewater collection services to 18,600+ customers within over 355 miles of waterline and around 250 miles of sewer line within our service area, including the urban areas of Albemarle County, and nearby communities of Scottsville and Crozet. The community enjoys water drawn from a watershed contained almost entirely within the County’s borders. We distribute treated water, and collect sewage for treatment, while maintaining, expanding and replacing the infrastructure within the service area.
ACSA Mission & Vision

Our Vision
Conserve today, sustain tomorrow, and protect water and environmental resources forever.

Our Mission
With pride and dedication, we serve our customers by providing clean, safe water, exemplary wastewater services, and fire protection systems. Together with our community partners, we maintain and improve our infrastructure in a timely, cooperative, and financially responsible manner.
Regional Water & Sewer Utilities

Wholesaler

Treatment Plants

Retailer

Retailer
A FIVE-YEAR STRATEGIC PLAN
2013 Update

1964-2014
Serve and conserve today, sustain for tomorrow, and protect our resources forever.
The ACSA System

- The ACSA water system consists of 355 miles of water mains ranging in size from 4-inches to 20-inches.
- The oldest known section of pipe which is still in service was installed in 1885 and was part of the original raw water line that brought water from the Ragged Mountain Reservoir to Charlottesville.
- Our system contains cast iron, PVC, ductile iron and asbestos-cement pipe.
- The Albemarle County Board of Directors determines where public water and sewer can be installed in the determined designated growth areas. This is done to control growth and to help preserve and ensure the rural character of Albemarle County is maintained.
- The ACSA does not receive funding or financial support from Albemarle County. We are totally funded through the sale of water and sewer fees that our 18,600 customers pay through water consumption.
The “Water Cycle” - Clean Water

Water Supply to Customers
Storage
Precipitation
Wastewater Collection System
Water Treatment
RWSA
• Located approximately 4 miles west of Charlottesville
• Urban System
• 1.5 billion gallons of usable water supply storage
• Dam height: 125 feet; width: 785 feet
• Located off Route 29, north of Charlottesville
• 2 major streams are tributaries; Mechums River and Moormans River
• 800 million gallons of usable raw water supply storage
• Dam height: 47 ft; width: 700 ft
Sugar Hollow

- Located in the shadows of the National Forest
- Normal pool depth 975 feet
- 324 million gallons of usable water supply storage
- Dam height: 77 feet
- “Put and Take” Trout Program
• Located in Scottsville
• Scottsville Water Source
• Designated as an Albemarle County Park
• 155 million gallons of water supply storage
• Dam height: 35 feet
• Stocked with sunfish, channel catfish and largemouth bass
Beaver Creek

- Located in Crozet
- Crozet Water Source
- Designated as a Public Park
- 521.3 million gallons of usable water supply storage Dam height: 60 feet
- Stocked with sunfish, channel catfish and largemouth bass
• Water from the reservoirs is fed to the Water Treatment Plants for filtration and treatment.

• The water treatment plants are all operated and maintained by the Rivanna Water and Sewer Authority (RWSA).
Wastewater Treatment Plants

- The wastewater treatment plants are all operated and maintained by the Rivanna Water and Sewer Authority (RWSA)
- Combined capacity of 15.7 million gallons per day (MGD)

Moores Creek Advanced Water Resource Recovery Facility (Pictured)

Glenmore Water Resource Recovery Facility

Scottsville Water Resource Recovery Facility

Stone Robinson Water Resource Recovery Facility
Some of what the ACSA does

- **Meter Reading and Billing Operations**
- **Closed Circuit Televising Operations**
- **Installation, Inspection, Maintenance and Repair of Infrastructure**
- **Plan Review and Project Management**
- **Maintain Storage Tanks, Pump Stations, and Pressure-Reducing Vaults**
- **Backflow Prevention and Fats, Oils, and Grease Programs**
Administration Responsibilities

- Clerk to the Board of Directors
- Administrative Support
- Employee Records and Benefit Administration
- Recruitment, Hiring and Orientation of New Employees
- Document and Database Management
- Customer Newsletter
- Water Conservation Program
- Employee Relations
- Safety and Risk Management
- Staff Training and Development
- Legal Compliance
- Assistant to the Executive Director
- Employee Guidance
- Customer and Public Utility Inquiries
Engineering Responsibilities

Planning
- Capital Improvement Program
- Plan Review and Approval
- Easement Acquisition
- Project Engineering, Planning and Management
- Duplicate ACSA system on GIS

Construction
- Building, Sign and Demolition Permit Review
- Utility Location & Marking
- Construction Inspection
- Pipe Testing
- Water Sampling

System Maintenance
- Backflow Prevention Program
- Hydraulic Modeling
- Fats, Oils and Grease Program
- Carwash Certification
- Water Quality
Finance Department Responsibilities

- Meter Reading & Work Orders
- Customer Service
- Purchasing & Procurement
- Payroll
- Accounts Receivable
- Accounts Payable

Customer Service

Purchasing & Procurement

Finance Department Responsibilities

Payroll

Accounts Receivable

Accounts Payable

Meter Reading & Work Orders
I.T. Responsibilities

Website
- Created and maintained solely in-house

Support
- Over 160 different devices (i.e., printers, phones, etc.)

Network
- 20 servers currently maintained
- Wireless and LAN

GIS
- Geographic mapping of the ACSA and neighboring systems

Security
- Physical
- Electronic

Training
- Specialized and/or General Computer Training for staff

SCADA
- 4 servers, software and separate network currently maintained

PCWorld
Technology Advice You Can Trust
Install
- Water lines
- Fire Hydrants
- Valves
- Sewer Lines

Maintain
- Pump Stations
- Sewer lines to ensure no blockages or defects
- Vehicles
- Emergency Repairs
- General repairs
- Restoration

Repair
ACSA Responsibility vs. Homeowner Responsibility
We’re there to make sure your water is:

- Safe to drink!
- There when you need it!
- There for the firefighters!
- There for the future!!
Lots of people are working at the ACSA to make sure:

- Water is flowing from our pipes to your house
- And flowing from your pipes into the sewers
- Day or Night
- Weekends and Holidays