


MEMORANDUM

To: Albemarle County Board of Supervisors
From: Gary O'Connell, Executive Director 
Date: July 5, 2017
Re: Albemarle County Service Authority (ACSA) Quarterly Briefing
cc: Mr. Doug Walker, Interim County Executive; ACSA Board of Directors;
ACSA Lead Team

Thank you for the opportunity to once again share what is going on at your water agency, the Albemarle County Service Authority. We pride ourselves on safe, clean, reliable water, and work hard every day to keep that trust in our water.

1. **Budget and Rates** – The FY 2018 Budget and Rates were adopted at the June 15, 2017 ACSA Board meeting, following the Public Hearing. A “Budget-in-Brief” summary went to 18,100 customers as an insert with the May bills (see attached). The average ACSA residential water and sewer customer will see a \$1.47 monthly increase. The ACSA comparable water and sewer bill at 4,000 gallons a month is less than the statewide utility average. An ACSA customer monthly bill is 22% less than a comparable City of Charlottesville water and sewer customer bill. As you may know, 64% of the ACSA rates go towards treatment costs to the Rivanna Water & Sewer Authority.
2. **ACSA Awards** – The ACSA has been awarded the Distinguished Budget Presentation Award by the Government Finance Officers Association (GFOA), which is the highest form of recognition in governmental budgeting. This is the first year the ACSA has received this prestigious national award, and is quite an accomplishment for a small agency to obtain. We also were recently recognized by the VMLIP (VML Insurance Pool) for the 2017 Risk Management Excellence Award.
3. **Water Professionals Appreciation Day** – June 30th was the 2017 Drinking Water and Wastewater Professionals Appreciation Day. We annually want to recognize and express our support and give thanks to the 76 ACSA employees who each day work to provide the community

with safe, clean, and reliable Albemarle water. We often take this for granted, and do not recognize the level of work and professional knowledge it takes to deliver a high-quality water product.

4. **Jurisdictional Area** – Attached is a map showing the ACSA Service Area; the bulk of which is the urban area, along with Scottsville, Crozet, Glenmore and Red Hill.

5. **ACSA Capital Projects Update** – A newly adopted Capital Improvements Program (CIP) totals \$5.6 million in projects. Attached is a CIP map by Magisterial District to show you the geography of our projects from the Urban System to Crozet and Scottsville. Below is an update for each of our current capital projects:

- **Water Tank Maintenance Program** - This is a comprehensive, multi-year and ongoing water storage tank maintenance and rehabilitation program for the eight tanks in the ACSA system. The goal is to have an ongoing review of our tanks to ensure they are kept in good condition to be able to serve the community. This year we are scheduled for inspection and cleaning on the Red Hill, Stony Point, Ashcroft Upper and Northfields tanks.
- **Key West Water Main Replacement** – The installation of a replacement water main has been completed. Replacement and the addition of new fire hydrants will improve the fire service in the neighborhood.
- **Dunlora-Key West Water Interconnect** – A companion project was a new interconnect water main under the river that will provide additional redundancy and emergency backup, as well as improve water quality. The project has been completed.
- **Westmoreland Water Main Replacement** – This project replaces nearly 55-year-old water mains that have recently experienced multiple water leaks. Construction of the new water main is complete, with services being connected. City Gas will be following up this construction with new gas lines to service the neighborhood.
- **Berkeley Water Main Replacement** – This project replaces water mains in the Berkeley subdivision that are failing and leaking. The lines are nearly 60 years old. Work has begun, with about 80% of the water main installed. This is another project that has been coordinated with City Gas, and new gas services will be installed at the completion of the water main project.
- **Glenmore Water Tank Project** – This project is for system redundancy and emergency backup. The present line extends 4 ½ miles to Glenmore. The project design is complete and ready for fall bidding for a new water tank to serve the Village of Rivanna. We had been waiting on private development site grading that affects the new water main location and depth which is now

underway. We also are designing some additional security measures into the project.

- **Crozet Phase 3 Water Main Replacement** – Design work to replace older water mains in Crozet is complete and easements have been obtained. A contract has been awarded and the work expected to begin this fall.
- **Orchard Acres Water Main Replacement** – Older (59 years) water mains to be replaced in Crozet. Design is complete and easements have been obtained. We anticipate bidding in late summer or early fall.
- **Greenbrier Drive Sewer Replacement** – Part of the Hillsdale Drive Road Project, this short section of sewer main has been replaced. A significant cost savings was achieved by combining this sewer main replacement with the planned road project.
- **Camelot Sewer Rehabilitation** – Sewer replacement, relining, and manhole repairs to reduce infiltration and inflow are needed for a well-functioning sanitary sewer. Work is being scheduled.
- **ACSA Facilities Master Plan** – Study underway to look at the short and long-term future of ACSA properties (Crozet, Avon Street, Pantops) and develop a master plan for the long-term needs of the organization as we continue to grow and add customers. A Phase I relocation of the maintenance offices on site has been completed.
- **Camelot Water Main Replacement** – Replacement of nearly 50-year-old water mains that are also undersized. Design work is underway at the 50% stage, and field fire flow testing is being conducted.
- **Scottsville Water Main Replacement** – Replacement of an aging water main along East Main Street. We are in the 90% design stage on this project, with field surveying completed.
- **Barterbrook Water Main Replacement** – Replacement of aging and deteriorating water mains along Solomon Road, North Berkshire Road, and Inglewood Drive. We are at the 90% design stage on this project. Project will soon be moving forward on easement acquisition.
- **Fontana Loop Water Connections** – New water main loops at Verona Drive and Olympia Drive will create secondary water feeds for system redundancy and emergency backup to the Fontana subdivision. We anticipate a mid-summer start date.
- **West Woods Water Main Replacement** – The project completes the water main replacements along West Pines Drive. Construction is complete, with services to install next.
- **Ashcroft Water Pump Stations Improvement** – This project will upgrade two existing water pump stations, which will result in quicker refill of the storage tank and improved water quality. 100% design documents are complete.

- **Peter Jefferson Place Pump Station Improvements** – This pump station is operating inefficiently and a study was completed to determine the best solution to improve it. Design is currently underway for pump and piping replacement.
- **Glenmore Drainage Basin Sewer System Study** – This project replaces the Pantops study due to the Rivanna Pump Station work being delayed which affects a study of wet weather flows. We have seen wet weather issues in the Glenmore system to the point that this drainage basin has become a priority. The study is underway and approximately 80% complete.
- **Airport Sewer Collector Upgrade Evaluation** – The increased density in this area (Hollymead Town Center and Willow Glen) at build-out will exceed the capacity of the existing sewer main. This project will develop a plan for upgrading the sewer capacity of this collector line. The final engineering report is under review.
- **Oak Forest Sewer Pump Station** – This is an aging pump station in need of rehabilitation. With the adjacent Stonefield development, we now have the opportunity to extend a sewer main and eliminate this aging pump station and avoid an expensive upgrade. We are in the 50% design stage.
- **AMI Feasibility (new)** – Advanced Metering Infrastructure project feasibility to evaluate various electronic metering systems to replace our current handheld reading system. Request for Proposals is being developed.
- **Jefferson Village Water Main Replacement (new)** – Replacing older (49 years) water mains made of inferior pipe product. Since originally part of a former well system, many of the mains are undersized.
- **Meriweather Hills Water Main Replacement (new)** – This water main is reaching the end of its useful life and is in need of replacement. Another of the former well system lines.
- **Pantops Sewer Study** – Area study to reduce wet weather infiltration and inflow (I/I).
- **Lewis Hill-West Leigh Water Connection (new)** – The existing connection is at risk of failure, due to stream encroachment, to the point it has been taken out of service. This project will re-establish the water connection from Lewis Hill to a recent water line replacement along Sheffield Road in West Leigh.
- **SCADA (computerized monitoring)** – A three phased project is nearing completion for over 40 water and wastewater facilities in the ACSA system. Another of our projects to provide emergency alerting and monitoring to assure reliable water and wastewater service.

Let us know if you have further questions or comments. We are more than glad to meet with you about any of our projects or facilities, or provide a tour if that would be useful.

Attachments:

- Summer Customer Newsletter
- CIP Map – Capital Improvements Projects by Magisterial Districts
- Budget-in-Brief Summary
- ACSA Service Area Map