

BOARD OF DIRECTORS' MEETING

September 21, 2023 9:00 A.M.

AGENDA

This meeting is being held pursuant to and in compliance with Va. Code Section 2.2-3708(3). The ACSA Board of Directors is responsible for receiving public comment. The opportunities for the public to access and participate in the electronic meeting are as follows: Join the meeting virtually through Zoom by visiting our website at www.serviceauthority.org; call in and leave a message prior to the meeting at (434) 977-4511, or email the Board prior to the meeting at board@serviceauthority.org.

1. Call to Order and Establish a Quorum –Statement of the Board Chair
2. Approve Minutes of August 17, 2023
3. Matters from the Public
4. Response to Public Comment
5. Consent Agenda
a. Monthly Financial Reports
b. Monthly Capital Improvement Program (CIP) Report
c. Rivanna Water and Sewer Authority (RWSA) Monthly Update
d. ACSA Board Policy Issues Agenda 2023
e. Advanced Metering Infrastructure (AMI) Project Update
6. Operational Presentation – JetScan 2.0 Camera
7. Imagine a Day Without Water – Resolution
8. Operational Presentation – Role of the Construction Inspector
9. Strategic Plan 2023-2027 Update
10. Items Not on the Agenda
11. Adjourn



ALBEMARLE COUNTY SERVICE AUTHORITY STATEMENT OF CHAIR TO OPEN SEPTEMBER 21, 2023 MEETING

This meeting today is being held pursuant to and in compliance with Va. Code Section 2.2-3708.3.

The opportunities for the public to access and participate in the electronic meeting are posted on the ACSA's website. Participation will include the opportunity to comment on those matters for which comments from the public will be received.

1	The Board of Directors of the Albemarle County Service Authority
2	(ACSA) met in a regular session on August 17, 2023, at 9:00 a.m. at the
3	Administration and Operations Center at 168 Spotnap Road in
4	Charlottesville, Virginia.
5	Members Present: Mr. Richard Armstrong, Chair; Dr. Lizbeth Palmer; Mr.
6	John Parcells; Mr. Clarence Roberts; Mr. Charles Tolbert, Vice-Chair.
7	Members Absent: Mr. Nathan Moore.
8	Staff Present: Kenny Barrow; Mike Derdeyn; Brendan Ganz; Terri Knight;
9	Jeremy Lynn; Quin Lunsford; Alex Morrison; Gary O'Connell; Emily Roach;
10	Belinda Shifflett; Danielle Trent; Janet Vest.
11	Staff Absent: Jeremy Lynn; Gary O'Connell
12	Public Present: None.
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14	1. Call to Order and Establish a Quorum – Statement of Board Chair
15	Mr. Armstrong called the meeting to order. He then read the opening
16	Board Chair statement (Attached as Page), and a quorum was
17	established.
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19	2. Employee Recognition – Debbie Grady – 45 Years of Service
20	Mr. Armstrong stated that Ms. Debbie Grady was retiring after 45
21	years of service, but she was not present at the meeting. He stated that there
22	was a resolution, which he then read (Attached as Page). He asked
23	whether there was a motion for the recognition.
24	Mr. Tolbert moved to adopt the recognition, seconded by Dr.
25	Palmer. All members voted aye.
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27	3. Approve Minutes of June 15, 2023
28	Mr. Parcells noted there were two tiny errors in the minutes. He said
29	the one of the errors was on page 11, line 16. He said they needed to add,
30	"of the plan." He said on page 19, line 12, "that" should be "who."

Dr. Palmer stated she wanted to add one more correction. She noted that on page 4, line 11, it should read, "ACSA," not, "ASA."

Mr. Parcells said he enjoyed reading the technical transcript and noted that it had a few different perspectives. He said that together, the transcripts would have been perfect, but it matched the quality of the staff version.

Dr. Palmer noted she was not present at the last meeting, so it was challenging putting the two transcripts together. She explained she ended up taking one section from each version and put them next to each other. She said it was interesting that there were times when she was unsure if it was said or not. She assumed that the interpretation would be to say the gist of it, but she was not sure. She said she enjoyed the staff way that they do it better because it explained it a little bit better, but at the same time, it was more verbatim on the other. She wished she had been present to hear the meeting, and she noted that there was a tremendous desire to put this to a paid company, and she did not object to that. She saw the value in staff reviewing the transcript and massaging it.

Mr. Tolbert said there was an opportunity to review the minutes that were provided and additional context.

Mr. Parcells asked how much time it took to draft the minutes. Ms. Trent replied it was about 4 hours of work per hour of audio. Mr. Parcells noted that reviewing the prepared transcript would require less time. Ms. Trent said yes. Mr. Parcells said he agreed with Dr. Palmer regarding the perspective staff added to the minutes. He hoped that in switching to the transcript method, staff would have a chance to provide any missed perspectives from the transcripts. Ms. Trent noted that as time went on, the company may become more familiar with the organization. She said that she may need to massage the transcript to not take away from the context of what was said in the meeting.

Dr. Palmer noted if they hired somebody else to take on that, and they did not have the context or knowledge, they would be better off with a straight verbatim.

Mr. Tolbert asked if the company did court reporting. Ms. Trent

Mr. Tolbert asked if the company did court reporting. Ms. Trent responded that they did not do court reporting, but they worked with Rivanna and other County entities. Dr. Palmer said that the transcription company, Golden Transcription Services, also did the minutes for the Board of Supervisors. She explained that when she was on the Board of Supervisors, she would interact with the owner of the company sometimes in the office, and she had been around for quite a while.

Mr. Roberts asked whether someone from the company would be present at the meetings or if they would work from recordings. Ms. Trent replied that it would all be from recordings, and they would try to provide the actual video. She noted the company had not indicated they would be joining the meetings, but they would have audio and video recordings. Mr. Roberts said he guessed that the word-for-word reporting met the legal requirements for the minutes. He said they were lucky to have staff write the minutes, but he was not opposed to the transcription company doing it.

Mr. Parcells asked which version would be approved.

Dr. Palmer stated she would abstain because she was not present at the meeting.

Mr. Armstrong said they should move into the new age and approve the Golden Transcription Services minutes. Mr. Barrow noted they could approve the minutes as supplemented by the verbatim transcript. Mr. Armstrong asked if there was a motion to approve the minutes supplemented by the verbatim transcript.

Mr. Parcells moved to approve the minutes as supplemented by the verbatim transcript seconded by Mr. Tolbert. All members voted aye.

1	4.	Matters from the Public
2		There were no matters from the public.

5. Response to Public Comment

5 There was no response to public comment.

6. Consent Agenda

a. Monthly Financial Reports

b. Monthly CIP Report – Mr. Parcells noted that item 14, page 90, the Madison Park Pump Station, stated there was difficulty obtaining the pump skid. He asked for further information about that in terms of why ACI was having trouble and details about the pump manufacturer. Mr. Morrison replied he believed it was coordination between the manufacturer and the consultant engineer reviewing the submittal, but he would need to follow up with more information.

Mr. Parcells said his question was tied to item 26, page 96, where they discussed the SCADA time. He noted that the SCADA time would obviously be delayed for the pump station, and he asked how that would affect the overall goal and what the timing issue was. Mr. Morrison replied that Madison Park was not included as part of the SCADA Phase 3 project. He said SCADA would be installed as part of the Madison Park pump station upgrades standalone project, and it would not impact the SCADA Phase 3 project. He said that Madison Park would not be online with SCADA until the other project was completed, but they would continue with the Phase 3 project to bring SCADA system access online. Mr. Parcells asked if there was a timing for Madison Park. Mr. Morrison stated he would have to follow-up with more information.

Mr. Parcells noted that for item 17, page 91, the Biscuit Run sewer, it stated Linco was no longer interested, and Prism was taking over some of the infrastructure work. He asked what the alternatives were. Mr. Morrison replied that since Linco was no longer interested in the

contract, they had to go out and request quotes, so it was open to multiple contractors. He noted Prism would most likely be a contractor to submit a bid. He said that for procurement reasons, they had to go through the solicitation of multiple prices. Mr. Parcells asked whether the timing would be affected. Mr. Morrison responded that there would be a slight delay because the process for requesting and receiving bids took time, but once they received and reviewed them, they would be able to award the contract and get construction on repairs underway.

Mr. Parcells noted that on page 99, the North Point private development had a sewer addition for 179 units. He assumed it was included from a growth perspective for trunk sewer capacity issues. Mr. Morrison said he did not believe North Point discharged to the Airport trunk sewer. He explained the pump station discharged near Airport Road which went to the Powell Creek interceptor. He said he would provide follow-up information after verification.

Mr. Parcells noted he reviewed the master plan, and he was surprised because the County envisioned 38k units by 2050. He mentioned that it was just for the north part of the County. Mr. Morrison said that was correct and noted they had meetings with the County regarding the AC44 update. He said that at the meeting, they reviewed the current growth areas, what had been approved, projects in the pipeline, what had been proposed, and how the projects factored into other areas of consideration. He mentioned they held the meetings in conjunction with RWSA to ensure they took a holistic look at their systems to ensure any required projects were put in place to facilitate the envisioned growth.

Mr. Parcells asked if the future growth of the organization would be included in the future planning and vision. Mr. Lunsford responded that the Avon Property was certainly one example of taking steps to prepare for the growth of the system, and it was absolutely something they would look at. He said they had seen increases in different departments from

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the staff perspective over the last few years. He said that with open communication between the County, RWSA, ACSA, and all community partners, they were doing what they needed to do to take care of future goals. He said that it was a challenge, and there were financial aspects that needed to be considered.

Mr. Roberts asked whether an impact statement was being performed on how the infrastructure would be impacted. Mr. Morrison replied that if there were parcels within the growth area under a rezoning application, they would go through the site review committee with the County, and they sat on the committee. He explained that as part of the review of zoning map amendments, special use permits, or proposed developments, they identified red flags with service provisions. He noted that there were steps throughout the process where they could identify capacity issues. He explained that with larger developments, there was typically master planning prior to the zoning map amendment, and they were able to identify at that point any larger scale projects that may involve require offsite RWSA. or

Dr. Palmer noted that there was always a line in the Board of Supervisors and Planning Commission documents stating that RWSA and the ACSA had signed off on the project. Mr. Roberts noted that impact statements had to be made at the General Assembly when he was working because he had to write them. Dr. Palmer said she did not know about the impact statements, but the Board of Supervisors often asked for more information about the impact statements. She noted that many years ago, Stonefield had a different name, and that was a debacle of communication. Mr. Roberts noted that the growth was considered in the approval process of North Point. Dr. Palmer said she had become more comfortable with the process over the years as things had improved.

Mr. Tolbert asked what an E/1 system was as mentioned on page 91. Mr. Morrison replied that an E/1 system was an alternative to a public

pump station. He explained that there was a common force-main
generally located in the right-of-way or along the road owned and
operated by the ACSA. He said each individual home had a collection
tank and grinder pump which connected to the force-main. He explained
that the homeowner owned, operated, and maintained a tank, pump,
and small-diameter force-main which connected to the pipe in the right-
of-way. He said that it was a large-scale pump system to collect sewage
from homes in lieu of a larger public pump station and gravity collection.
Mr. Tolbert asked whether it was a common way to deal with it in a
subdivision. Mr. Morrison replied that it would be one of the first they had
in the ACSA system, but it was a common system in other municipalities.

- c. CIP Authorizations
- d. Monthly Maintenance Update
- e. Rivanna Water and Sewer Authority (RWSA) Monthly Update
- f. ACSA Board Policy Future Issues Agenda 2023
- g. Advanced Metering Infrastructure (AMI) Project Update
 - Mr. Parcells moved to approve the consent agenda, seconded by Mr. Tolbert. All members voted aye.

7. Request for Approval – Annual Year-End Appropriations

Mr. Lunsford said he would speak to the matter briefly. He said that it was something they did each and every year as part of the new fiscal year budget process. He explained that any items from the prior fiscal year that they budgeted for were requested for reappropriation. He said that a list of items in detail was provided to the Board. He said they were requesting reappropriation of \$237,211.

Mr. Parcells moved to approve the reappropriation, seconded by Dr. Palmer. The Chair asked for a roll-call vote: Mr. Parcells, aye; Dr. Palmer, aye; Mr. Tolbert, aye; Mr. Armstrong, aye; Mr. Roberts, aye.

8. Operations Presentation – Employee Training & Biz Library

Mr. Lunsford stated that Ms. Roach and Ms. Walker would give a presentation on employee training and the online training suite called Biz Library.

Ms. Roach said they would provide a high-level presentation on various training tools and training provided to ACSA employees. She said Malcolm X said it best, that growing is the result of learning. She said they strongly believed in investing in employees to help them grow. She said they offered multiple trainings throughout the Authority which were required by law or regulation. She said the Authority believed in thinking of employees holistically, and research had proven that employees faced many challenges outside of work that could impact their ability to perform work. She said that they often included training that was not necessarily work related, but it could be impactful for employees. She said that there was an employee assistance program where they partnered with UVA. She said those were free and confidential services for employees and household members.

Ms. Roach stated they worked with external organizations. She said the lead team and supervisors had participated in Darden's Leadership Development Training Program. She said they were working with PVCC's Shippers Choice CDL Program because of a new regulation. She said students had to participate in a required number of classroom trainings before obtaining a CDL. She said they worked with PVCC for first aid and CPR training. She said they used various coaches for leadership development training for supervisors and potential supervisors.

Ms. Roach highlighted that there was a course, certificate, and degree program available to all employees who wished to pursue training on their own time. She said employees who completed trainings were eligible for a cash bonus or base pay increase if they received a C or better in the course. She noted that COVID-19 caused the Authority to reconsider how it performed trainings. She said that during the pandemic, they implemented a new learning management system called Biz Library.

Ms. Roach stated Biz Library allowed them to rethink the training

approach. She explained it was a single platform to track employee training. She said they were seeing the benefits of Biz Library immediately. She said that supervisors had the ability to assign trainings to a group of employees or as individuals. She said employees received notifications as soon as the course was assigned and when it was completed or overdue. She said supervisors also received notifications. She said over the next few slides, there would be an overview of different trainings, and later on, there would be reports that supervisors and employees were able to see for courses.

Ms. Roach said Biz Library offered various training categories, and there were over 1,000 available offerings. She said that employees were able to take trainings on their own time. She said some trainings were broken up into sections, and within each section, there was a quiz on the content. She explained that Biz Library allowed the Authority to upload organization-specific trainings, so employees could review the training or make up missed sessions.

Mr. Parcells said he liked the approach which was taken in terms of providing the opportunities to the employees. He asked how the employees perceived and responded to the Biz Library program. Ms. Roach responded that employees appreciated the optional trainings, which were well-received. She said employees had requested or suggested trainings to include. She said that normally, a minimum of 10 people participated in the training. She said that last week, a company had discussed navigating Medicare and preparing for future events. She said they tried to think of employees in different aspects of their life and career.

Dr. Palmer noted that on slide 10, there were categories, and under software, there were 3,037. She asked if the numbers referred to the number of course available in the program. Ms. Roach replied yes. Dr. Palmer assumed that many of the trainings were not relevant for to the organization. Ms. Roach said they would not be utilizing all of the trainings because some may not be relevant to the organization. Dr. Palmer asked what type of training was not covered by the Biz Library. Ms. Roach responded that Biz

Library was not intended to replace other required training, and it was meant to be supplemental. She said that confined space training or asbestos training was not completed within Biz Library, among other trainings. Dr. Palmer asked if there were non-hands-on trainings that were not included. Ms. Roach said she could not think of anything. Mr. Lunsford responded that the Darden Leadership Program was not through the Biz Library. He noted staff took advantage of conferences around the country, and those programs continued. He said that Biz Library served as a supplement to many of the specific trainings offered by the Authority.

Mr. Tolbert asked if all the sessions were computer oriented. Ms. Roach said yes, most were videos, and they could range from 2 minutes to a couple of hours. Mr. Tolbert asked how they addressed employees who spent most of their time away from the office. He asked how those employees would get time to spend at a computer for the training. Ms. Roach responded that most employees had access to an iPad or a phone. She said that there were computers upstairs employees were able to utilize, and most had access to laptops or an Authority phone. She noted that the training was accessible on mobile devices. Mr. Tolbert mentioned that iPads and laptops seemed to be fine, but a phone was not an appropriate way to review the training.

Mr. Armstrong thanked Ms. Roach for putting the presentation together.

9. Advanced Metering Infrastructure (AMI) Project Update

Mr. Lunsford stated that they continued to make progress on the AMI project. He said they prepared a short presentation to give a general overview of where they were, and they would focus on a few critical successes specific to customers. He stated that Ms. Knight, Mr. Barrow, and Ms. Vest would provide a presentation.

Ms. Knight stated that they worked daily to review the software and infrastructure. She said that they would begin with the project status. She

said that through three years of planning, the project was well underway. She said that as of that morning, over 36% of the system was deployed and fully operational. She said the presentation would provide an overview of the information the team reviewed daily to best serve the customers. She said as far as upgraded and operational systems, the graph on the slide showed 7,591, but as of that morning, they were up to 8,019. She said that as far as scheduled meter change outs, there were down to 3,700 left. She said that in terms of retrofits, they were over 10k left to be completed, but those were less disruptive to customers. She explained the contractor installed an MXU device so the meter would communicate to the towers, and she noted customers did not experience service disruptions. She said that in terms of the meter changeouts, there had been very few customer complaints.

Ms. Knight said every morning, they sent an email to staff with a daily update and a weekly projection graph of where they were and what the contractor had done. She said they were retrofitting about 100 meters per day, and they were pleased with the numbers.

Dr. Palmer asked what "no read" and "bad read" meant. Mr. Barrow replied that the data came directly from the PMI portal, and "no read" meant they had not received any readings from the meter, and he did not know what a "bad read" meant. He said that PMI used the data to track the devices they installed. Dr. Palmer asked what a stale read was. Mr. Barrow responded that a stale read was when no readings had been gathered from a meter in three days. He said that there could be various reasons for a stale read, such as the antenna being cut off. Dr. Palmer asked if the property owners were informed if stale reads occurred. Mr. Barrow said no. He said they handled it by replacing the lids that were cut off with recessed lids, and if it happened again, they notified the homeowner that they would have to pay for replacements. He hoped that the recessed lids would address most of the problems.

Ms. Knight stated that they were happy with the system and the contractor. She said they uploaded to the billing system daily, and files came

in accurately.

Mr. Parcells asked at what point the contractor turned the meter over to the Authority. He asked if there was a requirement for the contractor to have a good meter reading to provide the Authority before turning it over. Mr. Barrow replied that so far for the project, if there was any work that needed redone, the contractors were sent back out to take care of the work. He said that until the project was complete and fulfilled, any problems would be corrected. He said that stale meters were different because there could be other causes. Mr. Parcells clarified that when they replaced the meter tops with recessed lids, they were sending PMI to do the replacement. Mr. Barrow replied no because the damage was often done by the customer. He said that PMI would not use its inventory since the meter had been functioning.

Ms. Knight stated that as they were installing new meters, the new meters had the MXU devices already installed, and they were AMI-ready. She said that Mr. Barrow and Ms. Vest would tag-team and discuss daily review and consumption.

Mr. Barrow stated that when the project first started, they did not have many in the ground, and he was the only one reviewing it. He said various alerts would come in, and he would investigate the issues. He said that when they reached full deployment, he was unable to keep up with the reports on his own. He explained that the customer service team had access to census analytics and to the RNI, and they were monitoring the system. He said he primarily focused on the infrastructure, and he had delegated customer notification of leaks to the customer service team.

Mr. Barrow gestured to the screenshot shown on the screen, which was of the main dashboard of the Regional Network Interface (RNI). He explained that basically, the meters were communicating and sending the data to the radio units, the MXUs, the MXUs were communicating to all of their tower sites, and all of that raw meter data, including readings, alerts, and alarms, was coming into the RNI, and this dashboard was where they

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would see that. He said that they could see the main dashboard and the pie chart, and the various alerts they received. He said that they broke it down into critical alerts, major alerts, minor alerts, and information alerts. He stated that they considered a continuous flow or a customer leak being a minor alert, and while to him that was not a minor thing for a customer. That was how they did it. He said that the major alerts that they considered were the really extreme high flows, such as if a pipe burst. He said that they had a few ally meters in the system, and he believed they had about 50 of those deployed. He said that an ally meter was a meter capable of being remotely turned on and off, which was not a function that they planned to use, but the meter also monitored water temperature and pressure. He said that so, the engineering team got together and said that they wanted to measure pressure in certain areas of their system, so they bought about 50 of these meters and deployed them out to monitor the pressures. He said that when they set the parameters of the pressure alerts, if the low pressure and high pressure exceeded this pressure, they wanted an alert, which was what the critical alert was. He said displayed on the screen was what the alert page would look like. He said that when he first got into work in the morning, he would look at the overall system and make sure the towers were up and running, everything was working the way it was supposed to work, and then he looked primarily at the high flow alert. He said that Ms. Vest would talk in a minute about how she looked at the continuous flow, but he had gotten away from that and looked at high flow first because that was where a customer may have a pipe that had burst. He explained that a high flow was 500 gallons per hour, so if the meter was going 500 gallons per hour, he would get that high flow alert. He said they were getting a lot of them now because customers' irrigation systems were turning on in the middle of the night and were using a lot of water. He said that he was weeding through the irrigation systems to find what was not an irrigation system that was having a really high flow.

Dr. Palmer remarked that she was surprised there was that much water coming out of irrigation systems. She asked if it was out of very large irrigation systems.

Mr. Barrow replied no, it could be like residential in Glenmore. He said that installers were currently working in the Glenmore subdivision and they were seeing a lot of high flow alarms come in overnight. He said that they would run 500, 600, or 700 gallons per hour for two or three hours.

Ms. Vest said with the high flow yesterday, out of the list she had, only one was a question and everything else was irrigation.

Mr. O'Connell asked how it was known that it was irrigation an issue.

Mr. Barrow said that it would be on their irrigation meter because they had auxiliary meters. He said that if it was a customer that had an exclusion meter behind it, they were making an assumption, because the rest of the day looked normal and it was just high for like two or three hours, so they were going on the assumption that the irrigation system was running even though the exclusion meter was not already in the system, but the primary meter was.

Ms. Vest said that when she had the list, she followed up in Bill Master. She said that if it was a resident that had an exclusion or auxiliary, such as a customer she looked up yesterday that used 17,000 gallons last month, but if it was a customer that rarely used their system, it was something they needed to look at.

Mr. Roberts asked if they had towers to accommodate all of their AMI systems, and he asked approximately how they determined the cost that they had to pay to use the tower.

Mr. Barrow said that he would let Mr. Lunsford talk about the cost, but they did not have everything built out yet. He said that they had one tower to go, which was at the UVA site. He said that they ran into difficulty up there because they originally wanted to put it on the Observatory tank but UVA did not want anything put on their tank, so they offered an alternative site fairly close to the tank for them to use. He said that it was a supply yard they had

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near Scott Stadium. He said they were going to put a wooden telephone pole to put the antenna on it, but they drilled and hit rock, and they even hired a special company to come in and try to drill it out, but that did not work. He said that they pursued an alternate plan where they were going to pour a concrete pad and put their own tower, which was a triangular metal structure like they had with their Ashcroft tank. He said that it took some time to get that designed and given to the UVA team, and UVA had reviewed it and signed off on it, so now they were going back to the contractor who was going to build all of that and get that up. He said that the UVA tower was the last one that needed to be put up. He said that there were pockets within the County where there was no cell phone signal, and the same thing was true of their radio. He said that they were finding now when they were in full deployment that radios and meters were going in certain areas but they were not hearing them and the signal was not getting out. He said they knew there were going to be pockets like that, and there was a smaller version of a tower called an R-100 that they knew they would need about 5 or 6 of those deployed around the County in strategic areas to pick up the others. He said that would not be done until the end of the project when they could identify exactly where they needed to go. He said that they had one that was installed on the roof of the Red Hill School because the school was an outlier, and it was just 12 meters there so they put the R-100 there and were reading all of those. He said that all of the infrastructure was not quite in as far as the towers go and the R-100s, but the bulk of it was.

Mr. Lunsford said that to piggyback on what Kenny said, the propagation study process was an evaluation of what they were communicating to where and was incredibly educational for them. He said that interestingly, the UVA site was only covering 100 unique meters, so it had an incredibly amount of redundancy to other antennas, but there was only about 100 meters that that was the only tower that it would communicate with. He said that while it was critical from a redundancy standpoint, that one site being the site being delayed was not a dealbreaker, and it was fortunate

in that perspective. He said that related to costs, they had been fortunate that a lot of ACSA assets were strategically elevated, as were Rivanna's, and they had been able to co-locate on those assets, the water tanks throughout the County. He said that they did have two lease agreements, a site within the City, the Norfolk Southern tower where their consultants helped them negotiate an annual lease, as well as a site east of the urban area with a cell tower that they were able to co-locate on, so there was a monthly charge associated with that. He said that that tower in particular was \$550. He said that having one or two of those was not cost prohibitive, but it gave them an incredible amount of redundancy having those antennas up throughout the service area.

Mr. Roberts asked if they paid those costs with the service fee bonds that were collected.

Mr. Lunsford said sure, that was included in the service charge. He said that they were recouping those types of costs, meter costs, and things of that nature.

Dr. Palmer asked Mr. Barrow if they were seeing a lot more irrigation systems put in.

Mr. Barrow said that they were seeing the AMI components being added to the existing irrigation systems.

Ms. Knight said yes, pretty much every new development was coming along with an underground irrigation system that was separately metered.

Dr. Palmer said that she recognized that this was not a discussion for right now, and she knew that it was problematic, but she was listening to these numbers and wondering if they should be thinking about adding a level five to the rate structure for water.

Ms. Knight said they were seeing it a lot more now because they were actually working in cycle 3, which was Glenmore. She said that before, they were not seeing all these high flows and continuous flows where they

I	had to dig a little deeper, so now they were seeing that how that they were
2	doing the channel exclusions.
3	Ms. Knight said that to help Dr. Palmer understand, the North Point
4	development's developer put in two taps for every lot, one for the domestic
5	meter and one was for the irrigation.
6	Mr. Parcells said that in terms of future planning, it was one thing to
7	be planning for human consumption kinds of uses, but the irrigation was a
8	big unknown in a lot of cases.
9	Dr. Palmer said that people wanted green lawns.
10	Mr. Parcells asked if there could be a different rate structure for
11	irrigation.
12	Mr. Lunsford said that there was, which was the tiered structure. He
13	said that there were four levels currently, and 1000 gallons in level 4 was
14	incredibly expensive compared to level 2.
15	Dr. Palmer said that they then got into all kinds of issues with
16	commercial, institutional, and multifamily. She said that it got really
17	complicated, and she recognized that, but it did make her wonder if this could
18	be altered or looked at again.
19	Mr. Roberts asked if connection with an irrigation meter was billed
20	separately.
21	Ms. Knight said that it was recorded separately because it was a
22	separate meter for that irrigation usage.
23	Mr. Tolbert asked how they billed for irrigation.
24	Ms. Knight said that it was billed to one bill because they combined
25	the two meters to the one account, but yes consumption was recorded
26	separately.
27	Mr. Tolbert said that it could be billed separately.
28	Mr. Parcells said that he was wondering if they would not want to
29	create that sort of category.

Mr. Lunsford said that maybe this was an opportunity, as they were in a slower month, to prepare a presentation to illustrate this, so everybody could see exactly how exactly it was handled.

Mr. Barrow said that there were still quite a few private exclusion meters out there that would not be on their AMI system until they figured out what they were going to do with them. He asked if there were any more questions before they continued with the next slides. He said that the slide on the screen displayed Sensus Analytics (SA). He said the RNI was collecting all the raw data, and that raw data from the RNI was combined with the files that come from their billing system, and it married all that raw data to the customers' accounts. He said that was what was went into the Sensus Analytics system, and it was one of the main dashboards they looked at to see what was going on with how many active meters they had, how many orphaned meters they had, and how many stale and almost stale. He said that where it said 15 no reads, those were all primarily out in the lvy area, because they knew lvy was going to be a problem area as far as coverage. He said that there were a couple of R-100s proposed in that area and they were hoping that when UVA came online that the number would go down. He said that they talked about what stale was, which was when they had not heard from them, almost stale was two days, and an orphaned meter was a meter that they were getting data in the field from but there was nothing in their billing system that matched. He said that typically what that was if they went out and installed a new meter, it would start communicating right away, and it may take a couple of days for them to put a work order into the billing system to marry that data off, so that was what the orphaned meters were.

Mr. Lunsford said that the 288 number right now reflects most of what PMI, the AMI contractor, has installed. He said that they haven't had the opportunity to marry that yet, but when the project was finished the orphaned meters would probably in the 5 to 10 range.

Ms. Knight said absolutely.

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Mr. Barrow said yes, it would basically just be new construction. He said that he would let Ms. Vest speak to the next slide as she was the one doing most of the customer contact.

Ms. Vest said that first thing in the morning, one of the things she worked on was high flow. She said that Mr. Barrow was there before her, so he was looking at that and she was following up, so she was sort of learning. She said that she downloaded a report and looked at that individual meter to see if it was still ongoing or it stopped. She said that probably 95% of them had stopped, where it had happened overnight and the high flow was gone. She said that she had one where they were using over 500 gallons an hour. she called them and they said that it was the toilet and that they would get it, and the next day it stopped and was not on the list when they looked again. She said that continuous flow was sort of looked at in the same way they did with the meter readers, so if there was high consumption they sent them back out to double check for possible signs of a leak. She said that if there were no signs of a leak, they contacted the customer and they could check the property, and if there was a possible leak, they were reached out to when they knew there was a possible leak to let them know what was going on. She said that they were doing that with AMI as well. She said that for continuous flow, if they had a continuous flow and now it was back to their norm, to her that was the same as if the guys were out checking and it went back down, and there was no sign of a leak. She said that at first they were calling the customers, but then they could not locate it because it had stopped, so they did ongoing continuous flows. She said that she and another co-worker had reached out to customers and they had had people say that their water hose was going outside and they had forgotten it and left it on. She said that they had a lot of customers who they called about ongoing flow that could tell them right then and there what it was and it stopped. She said that they noticed it had been helping as far as adjustments in the bill, because if the readings were coming in through the meter reader, they were not seeing it for a whole month compared to seeing it in real time right then

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and there. She said that it had cut down on adjustments because they were getting these before they even got to that point where they had a \$5,000 water bill. She said that it was really helping, and a lot of customers had asked when they would be able to look themselves, which they were looking into.

Ms. Knight said that it was also important for water conservation because they did not have all that leakage soaking into the ground or going into the sewer system. She said that it was amazing how many people knew right offhand that they had a toilet malfunctioning, but until they called them, they did not think of turning it off or getting it fixed.

Mr. Barrow indicated the graph on the screen that showed one particular customer. He said that they could see there were periods when there was nothing being used, then there were spikes, and then there was normal consumption. He said that then, they had this happen. He said that he came in one morning, the high flow alert came in around 6:00, and she was using over 600 gallons per hour and went as high as 1,300 gallons per hour. He said that based on the previous consumption, he knew that something was wrong and asked the meter technicians to go out there and verify that this was right and what they were seeing was correct. He said that the technician went out there and said that the meter was compliant, so he asked the technician to knock on the door and talk to the customer. He said that the customer came to the door and said that they did not have anything running. He said that the technician said the meter was showing that they were using a whole lot of water, and asked them to turn their main valve off while he checked the meter to see if it was outside or inside. He said that they went down to the basement to turn off the main valve and the basement was flooded. He said that they had not heard it, and the elderly resident had her daughter go down to check it, and found the basement flooded.

Ms. Vest said that once they got that turned off, they reached out to the plumber, Mr. Gentry, and she got the bill in an email, did the adjustment, and it was not even \$30 compared to what could have been hundreds of

dollars or even \$1000 a month later. She said that it was fixed within two hours.

Mr. Barrow said that it was very quick, and especially with the situation of her being elderly and not doing very well, her basement could have run a lot harder than it did and a lot more damage than it did, so this was a pretty good success story for their project.

Ms. Vest said that she got a plumber out there that day and they got the bill showing it was repaired.

Ms. Knight asked if there were any other stories they wanted to share, as they had a lot of customers.

Ms. Vest said that it was nice that they had this, and it was coming more online each day where they could see more and more. She said that since she worked with the meter reading, she could see all of it. She said that it was really good that they could go right then and there and say they had something going on, and for a customer to say they knew what it was a great experience, and the customers were happy that they were reaching out to them.

Dr. Palmer said that she could remember a story that she heard here many, many years ago about an elderly couple whose basement flooded for a month. She said that it was really good to hear, because there were a lot of people who just did not hear well out there.

Ms. Knight said that the AMI project continued to progress. She said that they anticipated significant completion by the spring of 2024. She said that the ACSA staff, including meter reading staff, customer service staff, engineering, maintenance, everyone had embraced the additional information that the software made available, and they continued to refine and improve internal processes. She said that early communications of potential water-related issues to customers had been well-received and contributed to the improving of their customers' experiences.

Mr. Lunsford said that it gave their team an opportunity to have an entirely different conversation with the customers the day of and the day

after. He said that he knew the team really appreciated that. He said that one of the added benefits of this installation right now was that they had asked their contractor doing the work on their pipe material in to present in conjunction with the new lead and copper identification stuff that they were required to do. He said that they were providing the information to the teams to analyze that, and that was an added benefit. He said that one thing that he wanted to be sure of was that finance got to use this tool right now a lot, one largely because maintenance was jumping on issues that were identified in this project incredibly quickly, so the contractors were there and shared that there were not metered operations or a center needed to be lowered or an old, fragile, galvanized pipe, the maintenance team was jumping on that. He said that they had been successful because of different departments supporting this endeavor.

Mr. Barrow said that while they used it primarily in their engineering department, it had been seeing some value that Mr. Morrison could talk about because he had some reports automated to keep track of all the autoflushers they had out there and how they were operating.

Mr. Morrison said that this had been an incredible tool. He said that he personally had three reports that he got every morning between 6:00 a.m. and 6:30 a.m., one was their automatic flushing assemblies. He said that Mr. Barrow's group was able to deploy the AMI on all those assemblies early, so it gave them real-time data that the assembly did correctly operate the day before, the programming changes were considered, the nodes, and they had no issues to address. He said that they used to check them once a week, so if there was an issue where a panel was unable to open or got stuck open, there could be significant consequences for that. He said that they also got a report for a group that covered all of the meters in Scottsville, as well as all of the meters for Red Hill. He said that those being smaller systems, a significant leak in a residential home could have pretty big impacts on the system as a whole. He said that being able to identify those quickly and in conjunction with what customer service was looking at allowed them to

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reduce the impacts to Rivanna, who was running the treatment plants there. He said that a good example was right after Christmas this year when they had the hard freeze, there was a leak that developed at a store in Scottsville that was closed and was flowing 22,000 gallons per day, essentially double the daily demand at Scottsville. He said they were able to quickly get down there and isolate the meter and contact the owners who had not been in the store to see this so they could reduce the damage that occurred there and work with that customer. He said that also with the smaller systems it helped their environmental department when looking at water quality. He said that the Red Hill system was a prime example in that when the elementary school was not in session there, the demand in that system dropped significantly, so they could monitor that daily demand and see if they needed to go down there and do any proactive flushing to ensure they had adequate chlorine residual levels and had no higher water age. He said that it was an incredibly great tool to have, and with the growth in the system, the AMI would help them that much more in the future.

- Dr. Palmer asked if most of Scottsville was done.
- Mr. Morrison said that all of Scottsville was on AMI.
- Mr. Barrow said that it had been in for over a year.
- Dr. Palmer asked if that was where they got a lot of leaks because the system was old.

Mr. Morrison said that it was not a high leak rate, but with it being a more remote part of their system, the ability to identify that quickly and communicate to customers if there was a response necessary to dispatch to employee to Scottsville helped them out.

Mr. Parcells said that he had asked a long time ago about fire hydrants, which he knows there are many. He said that he guessed that it was probably not economically viable, but he wondered if perhaps they were having second thoughts.

Mr. Lunsford said that they had not considered that yet. He said that their hydrant meter program was something that they were constantly talking

1	about, trying to think about the best way to meet the needs and protect the
2	system.
3	Mr. Parcells said that his understanding was that it would be very
4	expensive to retrofit something like that. He said asked if water haulers
5	which were fewer in cases, were worth attaching meters to. He corrected
6	himself and said they had a mechanical meter.
7	Mr. Lunsford said that one of the future items that would be added to
8	the system is additional pressure recording devices, not on meters, but or
9	pipes to detect leaks and things that were important for them to have. He
10	said that the backbone was there and the structure was there.
11	Mr. Barrow said that they had been able to monitor the Glenmore
12	water plant that was flushing a lot of water.
13	Mr. Lunsford said that was correct.
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15	10. <u>Items Not on the Agenda</u>
16	There were none.
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20	11. <u>Adjourn</u>
21	There being no further business, Mr. Parcells moved that the
22	meeting be adjourned, seconded by Mr. Tolbert. All members voted
23	aye.
24	
25	Gary B. O'Connell, Secretary-Treasurer

ALBEMARLE COUNTY SERVICE AUTHORITY

AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Monthly Financial

Reports

STAFF CONTACT/PREPARER:

Quin Lunsford, Director of Finance

AGENDA DATE: September 21, 2023

ACTION: Informational

ATTACHMENTS: Yes

BACKGROUND: Water and sewer financial reports and check registers for the month of August are attached for your review.

DISCUSSION:

- Water consumption for the month of July decreased 5.5% compared to June. Water consumption for the month of July 2023 compared to July 2022 decreased 1.1%.
- RWSA's invoice of \$2,352,971 for the month of July was paid on August 7, 2023.
- Unearned water and sewer connection charges totaled \$1,371,471 at month end.
- System connection charges are below budgeted expectations with \$582,980 recognized in July. Total system connection charges for FY 2024 are less than those in FY 2023 by 30%.
- Water and Wastewater revenues for FY 2024 are above budgeted expectations by 10.6%. Please see the water/wastewater trend analysis included illustrating that when adjustment for expected variations in seasonal consumption are considered, revenues are 0.5% higher than budgeted expectations.
- Staff is working on closing Fiscal Year 2023 in conjunction with the yearend financial statement and compliance audit. Mr. Tolbert and Mr. Parcells have agreed to sit on the Audit Committee later this year to review the draft FY 2023 financial documents and reports from the auditors. A full presentation to the Board is scheduled for the November 16, 2023 meeting.
- In accordance with the ACSA's Board adopted Financial and Investment Policies, the ACSA transferred \$6,000,000 from the ACSA's operating account at Bank of America to the ACSA's Local Government Investment Pool (LGIP) account. The transfer leaves an adequate balance in the operating account to fulfill current needs and also leverage expected higher earnings through the LGIP.

BUDGET IMPACT: Informational only.

RECOMMENDATIONS: None

BOARD ACTION REQUESTED: None; informational item only.

ALBEMARLE COUNTY SERVICE AUTHORITY

AGENDA ITEM EXECUTIVE SUMMARY

ATTACHMENTS:

- 1. Statement of Net Position
- 2. Year-to-Date Budget to Actual Comparison/Commentary
- 3. Investment Summary
- 4. Capacity/System Development Reserves
- 5. Connection Charges/ERC Analysis
- 6. Monthly Water and Sewer Charges from the RWSA
- 7. Monthly Water Consumption
- 8. Water and Sewer Report; Customer Class Report
- 9. Major Customer Analysis
- 10. Water/Wastewater Revenue Trend Analysis
- 11. Aged Receivables Analysis
- 12. Check Register

ALBEMARLE COUNTY SERVICE AUTHORITY

STATEMENT OF NET POSITION August 31, 2023

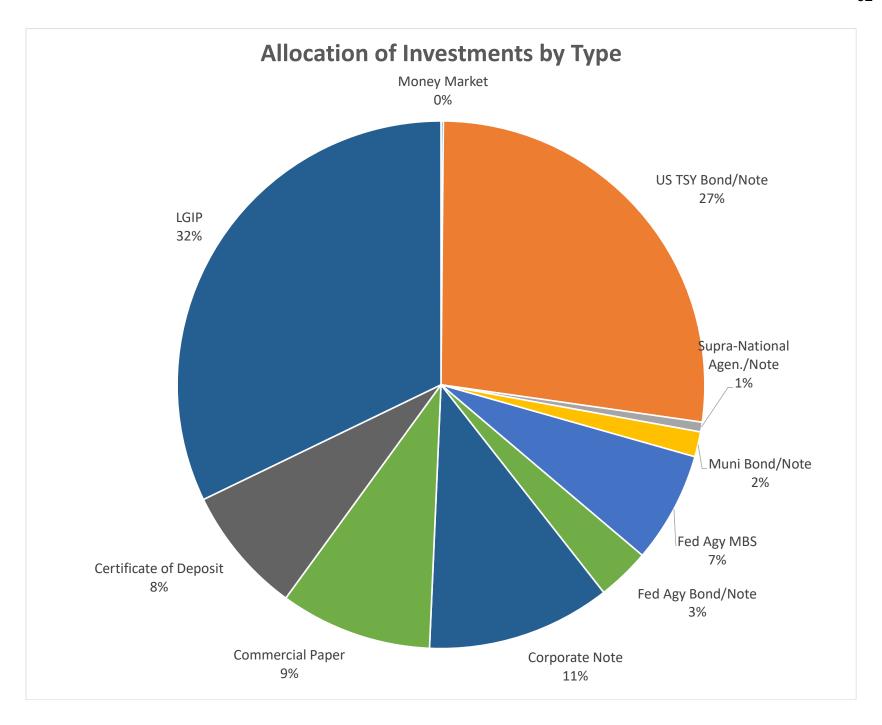
ASSETS

Cash and cash equivalents Accounts receivable Investments Capital assets: (net of accumulated depreciation) Inventory Prepaids Cash and cash equivalents, restricted Total assets	\$ 16,892,722 5,373,972 44,069,089 180,522,777 552,082 - 729,960
DEFERRED OUTFLOWS OF RESOURCES Combined deferred outflows of resources	248,140,602 1,175,852
LIABILITIES	
Accounts payable	5,326,784
Accrued liabilities	375,924
Compensated absences	746,495
Net pension liability	2,454,029
Other post-employment benefits	1,244,519
Unearned connection fees	1,371,471
Long-term debt	 4,570,883
Total liabilities	 16,090,105
DEFERRED INFLOWS OF RESOURCES	
Combined deferred inflows of resources	 1,104,953
NET POSITION	 232,121,396

Revenues	Budget FY 2023	Budget Year-to-Date 2023	August Actual Year-to-Date	Actual vs. Budget	Variance Percentage
revenues					
Water Sales Sewer Service	20,580,000. 16,679,000.	3,430,000. 2,779,833.	3,939,925. 2,930,542.	509,925. 150,709.	14.87% 5.42%
Total operating revenues	37,259,000.	6,209,833.	6,870,467.	660,634.	<u>10.64%</u> A
Operating Expenses					
Purchase of bulk water Purchase of sewer	(16,256,000.)	(2,709,333.)	(2,810,436.)	(101,103.)	3.73% B
treatment	(11,689,000.)	(1,948,167.)	(1,896,834.)	51,333.	(2.63%) B
Administration	(1,475,500.)	(245,917.)	(191,687.)	54,230.	(22.05%) C
Finance	(2,890,000.)	(481,667.)	(413,359.)	68,308.	(14.18%) C
Information Technology Engineering	(1,787,600.) (2,400,300.)	(297,933.) (400,050.)	(365,672.) (386,779.)	(67,739.) 13,271.	22.74% C (3.32%) C
Maintenance	(4,749,900.)	(791,650.)	(547,558.)	244,092.	(30.83%) C
Total operating	(4,740,000.)	(701,000.)	(047,000.)	211,002.	(00:0070)
expenses	(41,248,300.)	(6,874,717.)	(6,612,325.)	262,392.	(3.82%)
Operating gain(loss)	(3,989,300.)	(664,883.)	258,142.	923,025.	(138.83%)
Nonoperating Revenues					
System connection charges	8,000,000.	1,333,333.	1,690,475.	357,142.	26.79% D
Investment/Interest	8,000,000.	1,333,333.	1,030,473.	337,142.	20.7970 D
Income	600,000.	100,000.	421,813.	321,813.	321.81% E
Rental income	16,000.	2,667.	2,431.	(236.)	(8.84%)
Miscellaneous revenues	761,000.	126,833.	112,973.	(13,860.)	(10.93%) F
Total nonoperating					
revenues (expenses)	9,377,000.	1,562,833.	2,227,692.	664,859.	42.54%
Nonoperating Expenses					
Miscellaneous expenses	(327,300.)	(54,550.)	(2,461.)	52,089.	(95.49%) G
Bond interest charges	(183,859.)	(30,643.)	(700,000.)	30,643.	(100.00%) H
Depreciation	0.	0.	(720,330.)	(720,330.)	<u>0.00%</u> l
Total nonoperating					
revenues (expenses)	(511,159.)	(85,193.)	(722,791.)	(637,598.)	748.41%
Capital contributions	0.	0.	856,780.	856,780.	0.00%
Change in Net Position	4,876,541.	812,757.	2,619,823.	1,807,066.	222.34%

Albemarle County Service Authority Actual-to-Budget Year to Date Commentary

- **A.** Water and sewer revenues were more than budgeted amounts by 10.64%. Consumption through August (gallons) appears reasonable considering the ACSA's normal seasonal consumption pattern. Further information related to seasonal revenue expectations can be found later in the Board packet.
- **B.** Expenses related to purchases of bulk water and sewer treatment from the RWSA are more than budgeted amounts by 1.07%. Monthly billings prepared by the RWSA allocate total water/wastewater flows to the ACSA/City based on the consumption of each for the quarter immediately preceding.
- C. Departmental operating budgets through the current month remain below budgeted expectations for the fiscal year with the exception of Information Technology which is slightly higher than budgeted expectations. Variations early in the fiscal year are expected as the timing of expenses can more greatly impact variances. Departmental expenses will continue to be monitored throughout the fiscal year and are expected to align with budgeted expectations.
- **D.** System connection charges higher than the budgeted amount. Connection charges are often difficult to project and can fluctuate from year to year. These charges are dependent upon new customers connecting to the system.
- **E.** Investment income, which includes both interest income and adjustments to fair market value are recorded in these accounts. Investment earnings are ahead of budgeted expectations through the current month.
- **F.** Miscellaneous revenues consist of multiple lines and include inspection fees, plan review, reconnections/initial bill fees, invoiced water usage, and gains associated with sales of capital assets retired from service.
- **G.** The budgeted amount includes expected outlays for capital equipment and losses on disposal of capital assets. Equipment is capitalized when placed in service.
- **H.** Bond interest charges are recorded as incurred.
- I. Depreciation is not a budgeted line-item accounting for the variance. Depreciation expense is considered during the annual budgeting process as this expense is utilized to calculate the required contribution to the 3r reserve.





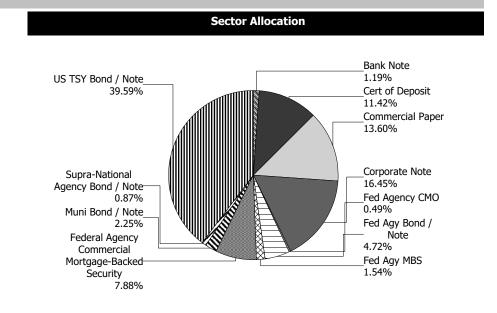
Portfolio Summary and Statistics

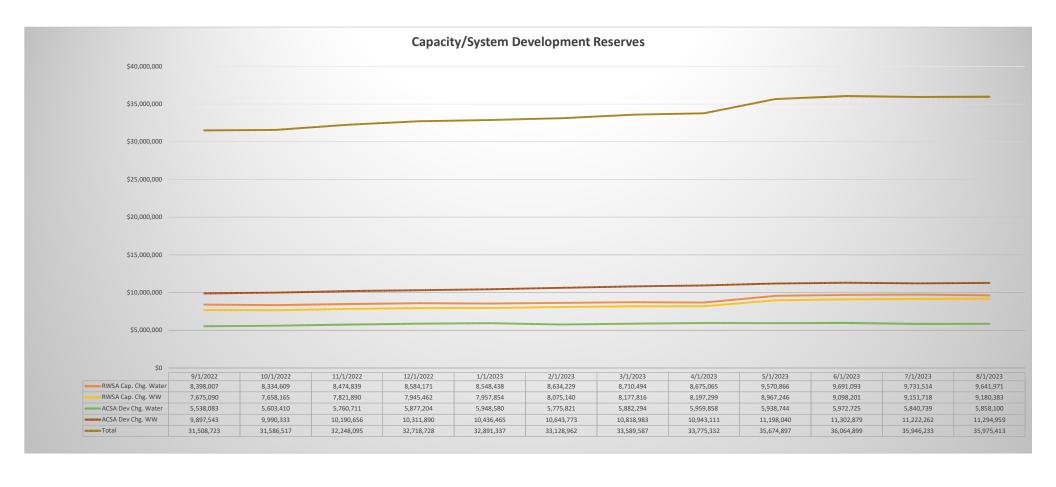
For the Month Ending August 31, 2023

ACSA OPERATING FUNDS - 03100100

Account Summary			
Description	Par Value	Market Value	Percent
U.S. Treasury Bond / Note	12,260,000.00	11,854,493.64	39.59
Supra-National Agency Bond / Note	265,000.00	261,848.36	0.87
Municipal Bond / Note	680,000.00	672,662.60	2.25
Federal Agency Mortgage-Backed Security	496,564.37	462,000.82	1.54
Federal Agency Commercial	2,460,114.66	2,359,287.75	7.88
Mortgage-Backed Security			
Federal Agency Collateralized Mortgage	150,000.00	146,453.95	0.49
Obligation			
Federal Agency Bond / Note	1,445,000.00	1,414,902.59	4.72
Corporate Note	5,060,000.00	4,925,222.25	16.45
Commercial Paper	4,200,000.00	4,073,359.20	13.60
Certificate of Deposit	3,425,000.00	3,419,884.01	11.42
Bank Note	355,000.00	355,942.17	1.19
Managed Account Sub-Total	30,796,679.03	29,946,057.34	100.00%
Accrued Interest		161,724.97	
Total Portfolio	30,796,679.03	30,107,782.31	

Unsettled Trades 0.00 0.00





Note: Additions to Capacity/System Development Reserves are from monthly connection charges, reductions to the reserves are from monthly growth related expenses/capital costs.

Albemarle County Service Authority Connection Fee Analysis July 2023

		Jul	y 2023	<u> </u>		
		uly 2023 ⁄lonthly		uly 2022 Monthly	\$	%
Area	Conr	ection Fees	Conr	nection Fees	Change	Change
Crozet	\$	283,830	\$	107,760	\$ 176,070	163%
Urban		298,850		724,950	(426,100)	-59%
Scottsville		300		-	300	
Total Connection fees	\$	582,980	\$	832,710	\$ (249,730)	-30%
		Throu	gh July			
	ΥT	D FY 2024	_	D FY 2023	\$	%
Area	Conr	ection Fees	Conr	nection Fees	Change	Change
Crozet	\$	283,830	\$	107,760	\$ 176,070	163%
Urban		298,850		724,950	(426,100)	-59%
Scottsville		300		-	300	-
Total Connection fees	\$	582,980	\$	832,710	\$ (249,730)	-30%
	j	uly 2023	J	uly 2022	Chanas	%
Area		ERC's		ERC's	Change	Change
Crozet		21		8	13	163%
Urban		22		54	(32)	-59%
Scottsville		-		-	-	-
Total ERC's		43		62	(19)	-31%
		Throu	gh July			
	YT	D FY 2024	YT	D FY 2023		%
Area		ERC's		ERC's	Change	Change
Crozet		21		8	13	163%
				Γ.4	(32)	-59%
Urban		22		54	` '	
Urban Scottsville		22 -		- -	-	-

Note: This analysis shows, both in dollars and ERC's, connections by month and YTD for the period under review. As noted above, connection fees are comparable to the prior year. See the "Three Year Connection Fee Comparison" for further discussion related to this change.

Albemarle County Service Authority Three Year Connection Fee Comparison July 2023

Area	July 2023 ERC's	July 2022 ERC's	July 2021 ERC's
Crozet	21	8	7
Urban	22	54	18
Scottsville	-	-	
Total ERC's	43	62	25

Through July							
Area	YTD 2024 ERC's	YTD 2023 ERC's	YTD 2022 ERC's				
Crozet	21	8	7				
Urban	22	54	18				
Scottsville	-	-	-				
Total ERC's - YTD	43	62	25				

Note: The information above present ERCs by month and YTD for the current and past two fiscal years. As noted in the YTD portion of the analysis, YTD ERCs in Fiscal Year 2023 appear reasonable considering continued development within the ACSA's service area.

Albemarle County Service Authority Water and Sewer Charges from the RWSA Fiscal Year 2024

	FY 2024		FY 2023	lı	ncrease	
	 /SA Charges	RV	VSA Charges	(D	ecrease)	
July	\$ 2,352,971	\$	2,041,957	\$	311,014	15.23%
August	2,352,440		2,042,399		310,041	15.18%
September			2,083,284			
October			2,021,265			
November			1,987,793			
December			2,025,214			
January			1,990,411			
February			1,956,978			
March			2,006,071			
April			2,013,296			
May			2,021,900			
June			1,979,565			
	\$ 4,705,411	\$	24,170,133			_
YTD	\$ 4,705,411	\$	4,084,356	\$	621,054	15.21%

Note: The charges noted above from the RWSA include operating and debt service charges.

Albemarle County Service Authority Consumption Analysis Fiscal Year 2024

				Monthly Precipitation (In.)	
	FY 2024 Consumption	FY 2023 Consumption		FY 2024	FY 2023
July	154,300,020	155,932,214	-1.05%	5.44	6.42
August		159,969,362	-100.00%		4.10
September		155,676,979	-100.00%		2.79
October		152,513,014	-100.00%		2.24
November		148,761,821	-100.00%		4.52
December		134,997,083	-100.00%		4.60
January		138,803,649	-100.00%		2.32
February		126,909,570	-100.00%		2.87
March		134,395,216	-100.00%		1.36
April		140,263,055	-100.00%		4.67
May		140,578,641	-100.00%		2.31
June		163,336,945	-100.00%		4.81
	154,300,020	1,752,137,549		5.44	43.01
YTD	154,300,020	155,932,214	-1.05%	5.44	6.42

Note: Consumption through July 2023 is 1.05% less than the same period in fiscal year 2023. Monthly precipitation figures have been included for comparison purposes. Trends in rainfall can sometimes correlate with trends in consumption however, depending on the intensity, days between rain events, or other factors, this may not always be the case.

Note: Precipitation data obtained from National Oceanic and Atmospheric Administration (NOAA): https://www.ncdc.noaa.gov/cdo-web/search.



Water and Sewer Report

(Volumes in Gallions)

July 2023

Billed by Area:	Water	Sewer
Crozet Scottsville Urban Red Hill	17,187,790 1,252,359 135,835,442 24,429 154,300,020	15,184,516 763,951 111,758,079 0 127,706,546

Billing by Sewer Plant:	
AWT	126,942,595
less Glenmore	(4,028,004)
Urban Total	122,914,591
Scottsville	763,951
Total	123,678,542

Metered Consumption (billed by invoice):

Number of Installed Meters:	
Urban	42
Crozet	20
Scottsville	0
Total	62

Urban	1,792,400
Crozet	41,400
Scottsville	0
To	otal 1,833,800

Unmetered Consumption:		
ACSA Fire Flow Consump.	Urban	14,220
	Total	14,220

Unmetered Leak Consumption	1:	
7/4/23 Caitlyn Drive	Crozet	2000
7/6/23 2750 Olde Oak Court	Urban	500
7/13/23 Whitewood Road	Urban	5000
7/21/23 Woodburn Road	Urban	5000
7/24/23 Dellwood Road	Urban	1000
	Total	13,500

Billed Consumption for Selected Customers							
	Water	Sewer		Water	Sewer		
*Virginia Land Holding	346,732	346,732	Boar's Head Inn	657,314	607,656		
Southwood Mobile Homes	1,716,770	2,310,000	Farmington, Inc.	1,162,896	518,792		
Turtle Creek Apts.	1,219,554	1,218,744	Westgate Apts.	1,150,741	1,148,541		
Barracks West Apartments	1,343,601	1,343,601	Abbington Crossing	1,968,136	1,968,136		
Monroe Health and Rehab	1,242,308	1,242,308	Four Seasons Apts	1,470,206	1,470,206		
Sunrise Senior "Colonnades"	870,149	712.549	Ch'ville/Alb Airport	204,545	205,082		
ACRJ	882,100	750,100	State Farm	1,302,200	1,183,007		
Westminster Canterbury	1,472,340	1,392,340	Hyatt @ Stonefield	386,166	386,166		
SEMF Charleston	1,632,747	1,632,747	Doubletree	939,420	939,420		
Martha Jefferson Hospital	2,341,938	1,200,838	Arden Place Apts.	468,991	468,991		
Crozet Mobile Home Court	281,400	281,400	Hilton Garden Inn	274,771	246,475		
The Home Depot	157,600	157,600	The Blake @ Charlottesville	355,329	355,329		
County of Albemarle	1,444,323	612,602	The Lodge @ Old Trail	241,844	241,844		
University of Virginia	2,115,343	2,109,522	Gov't-Defense Complex	1,215,535	1,156,688		
Wegmans	342,378	342,378	Harris Teeter Stores	198,174	198,174		
* indicates Industrial Discharge Permit Holden	s						

indicates Industrial Discharge Permit Holders



WATER

Class Type	Number of Connections by Area						
,,	<u>Urban</u>	Crozet	Scottsville	Total			
Single-Family Residential	16,001	3,844	195	20,040			
Multi-Family Residential	565	43	3	611			
Commercial (Offices)	202	12	5	219			
Commercial (Other)	932	76	53	1,061			
Industrial	36	11	4	51			
Institutional	171	32	12	215			
Total Water Accounts	17,907	4,018	272	22,197			
Plus Multiple Units	13,130	748	89	13,967			
Total Water Units	31,037	4,766	361	36,164			

SEWER

Class Type	Number of Connections by Area						
2.	<u>Urban</u>	Crozet	Scottsville	<u>Total</u>			
Single-Family Residential	13,689	3,568	157	17,414			
Multi-Family Residential	534	41	4	579			
Commercial (Offices)	186	12	5	203			
Commercial (Other)	725	52	44	821			
Industrial	15	5	1	21			
Institutional	133	26	10	169			
Total Sewer Accounts	15,282	3,704	221	19,207			
Plus Multiple Units	12,714	744	56	13,514			
Total Sewer Units	27,996	4,448	277	32,721			

POPULATION SERVED

Population served is the total Single-Family and Multi-Family units using an occupancy of 2.5 residents per unit:

	Urban	Crozet	Scottsville	Total
Total Water Customers	72,828	11,480	710	85,018
Total Sewer Customers	66,008	10,780	533	77,320

Albemarle County Service Authority Major Customer Analysis July 2023 and June 2023

	July 2	July 2023		2023	Increase(Decrease)	Increase(Decrease)
	Water*	Sewer*	Water*	Sewer*	Water Consumption	Sewer Usage
University of Virginia	2,115,343	2,109,522	1,485,252	1,482,876	42.42%	42.26%
Martha Jefferson Hospital	2,341,938	1,200,838	2,096,485	1,226,101	11.71%	-2.06%
ACRJ	882,100	750,100	886,200	784,200	-0.46%	-4.35%
Westmisnster Canterbury	1,472,340	1,392,340	1,527,400	1,446,400	-3.60%	-3.74%
Abbington Crossing	1,968,136	1,968,136	2,135,337	2,135,337	-7.83%	-7.83%
Turtle Creek Apts.	1,219,554	1,218,744	1,332,485	1,331,685	-8.48%	-8.48%
Barracks West Apartments	1,343,601	1,343,601	1,496,296	1,496,296	-10.20%	-10.20%
Westgate Apts.	1,150,741	1,148,541	1,288,861	1,288,861	-10.72%	-10.89%
Four Seasons Apts.	1,470,206	1,470,206	1,663,832	1,663,832	-11.64%	-11.64%
Southwood Mobile Homes	1,716,770	2,310,000	1,985,070	1,930,000	-13.52%	19.69%
SEMF Charleston	1,632,747	1,632,747	1,992,721	1,992,721	-18.06%	-18.06%
County of Albemarle	1,444,323	612,602	2,447,135	1,283,129	-40.98%	-52.26%

Note: Only major customers of the ACSA have been analyzed above. For purposes of this analysis, major customers are those who, on average, consume over one million gallons per month. Variations can occur for a variety of reasons including but not limited to: conscious conservation efforts, expansion, weather, vacancies, etc.

^{* --} Consumption/usage in gallons.

Albemarle County Service Authority Major Customer Analysis July 2023 and July 2022

	July 2	July 2023		2022	Increase(Decrease)	Increase(Decrease)
	Water*	Sewer*	Water*	Sewer*	Water Consumption	Sewer Usage
County of Albemarle	1,444,323	612,602	926,547	699,426	55.88%	-12.41%
Turtle Creek Apts.	1,219,554	1,218,744	1,085,764	1,080,664	12.32%	12.78%
SEMF Charleston	1,632,747	1,632,747	1,464,801	1,464,801	11.47%	11.47%
Abbington Crossing	1,968,136	1,968,136	1,926,166	1,926,166	2.18%	2.18%
Martha Jefferson Hospital	2,341,938	1,200,838	2,376,936	965,595	-1.47%	24.36%
Westmisnster Canterbury	1,472,340	1,392,340	1,554,690	1,439,690	-5.30%	-3.29%
Four Seasons Apts.	1,470,206	1,470,206	1,568,221	1,568,221	-6.25%	-6.25%
Westgate Apts.	1,150,741	1,148,541	1,232,893	1,229,593	-6.66%	-6.59%
University of Virginia	2,115,343	2,109,522	2,386,957	2,380,598	-11.38%	-11.39%
Barracks West Apartments	1,343,601	1,343,601	1,525,400	1,525,400	-11.92%	-11.92%
ACRJ	882,100	750,100	1,020,280	853,280	-13.54%	-12.09%
Southwood Mobile Homes	1,716,770	2,310,000	2,039,000	2,100,000	-15.80%	10.00%

Note: Only major customers of the ACSA have been analyzed above. For purposes of this analysis, major customers are those who, on average, consume over one million gallons per month. Variations can occur for a variety of reasons including but not limited to: conscious conservation efforts, expansion, weather, vacancies, etc.

^{* --} Consumption/usage in gallons.

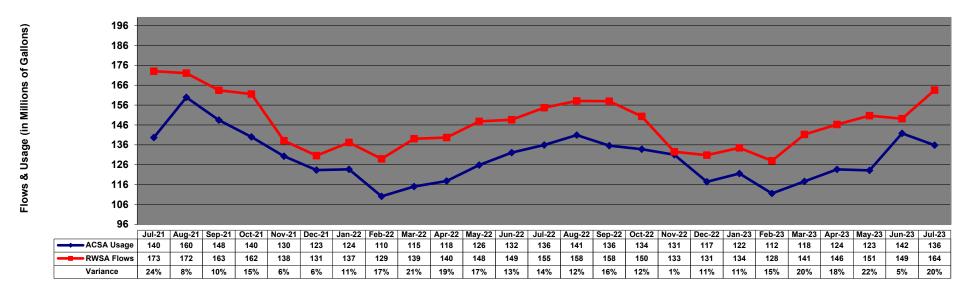
Albemarle County Service Authority Major Customer Analysis

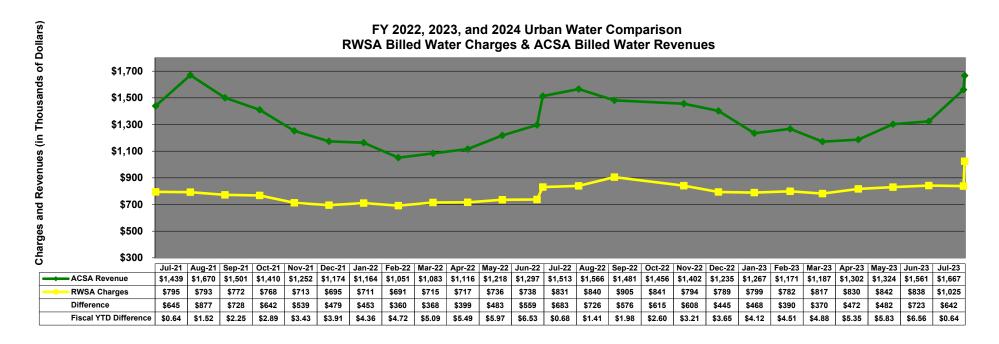
Year-to-date Comparison: Current Year/Prior Year -- July

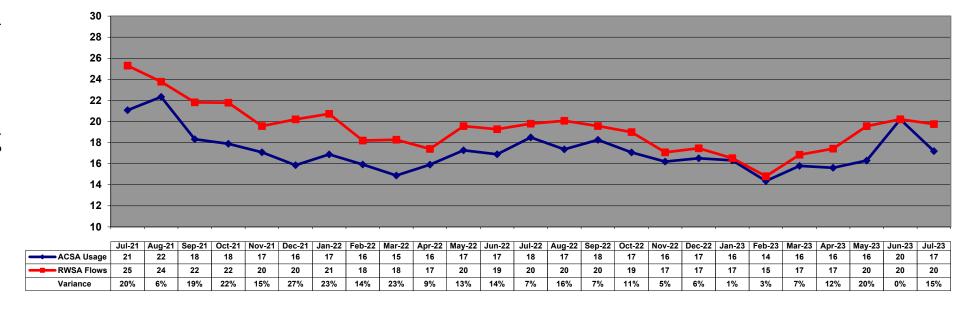
	YTD FY 2024		YTD FY	2023	Increase(Decrease)	Increase(Decrease)
	Water*	Sewer*	Water*	Sewer*	Water Consumption	Sewer Usage
County of Albemarle	1,444,323	612,602	926,547	699,426	55.88%	-12.41%
Turtle Creek Apts.	1,219,554	1,218,744	1,085,764	1,080,664	12.32%	12.78%
SEMF Charleston	1,632,747	1,632,747	1,464,801	1,464,801	11.47%	11.47%
Abbington Crossing	1,968,136	1,968,136	1,926,166	1,926,166	2.18%	2.18%
Martha Jefferson Hospital	2,341,938	1,200,838	2,376,936	965,595	-1.47%	24.36%
Westmisnster Canterbury	1,472,340	1,392,340	1,554,690	1,439,690	-5.30%	-3.29%
Four Seasons Apts.	1,470,206	1,470,206	1,568,221	1,568,221	-6.25%	-6.25%
Westgate Apts.	1,150,741	1,148,541	1,232,893	1,229,593	-6.66%	-6.59%
University of Virginia	2,115,343	2,109,522	2,386,957	2,380,598	-11.38%	-11.39%
Barracks West Apartments	1,343,601	1,343,601	1,525,400	1,525,400	-11.92%	-11.92%
ACRJ	882,100	750,100	1,020,280	853,280	-13.54%	-12.09%
Southwood Mobile Homes	1,716,770	2,310,000	2,039,000	2,100,000	-15.80%	10.00%

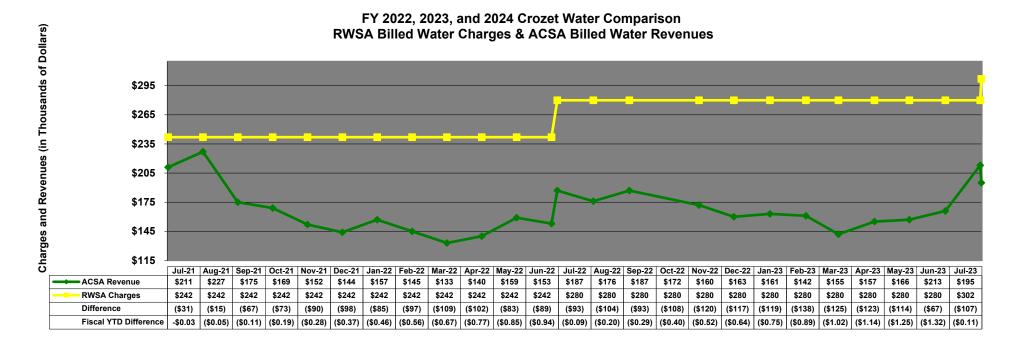
Note: Only major customers of the ACSA have been analyzed above. For purposes of this analysis, major customers are those who, on average, consume over one million gallons per month. Variations can occur for a variety of reasons including but not limited to: conscious conservation efforts, expansion, weather, vacancies, etc.

^{* --} Consumption/usage in gallons.

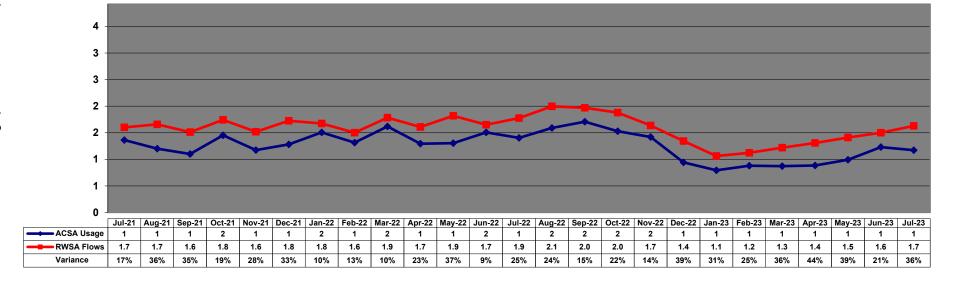


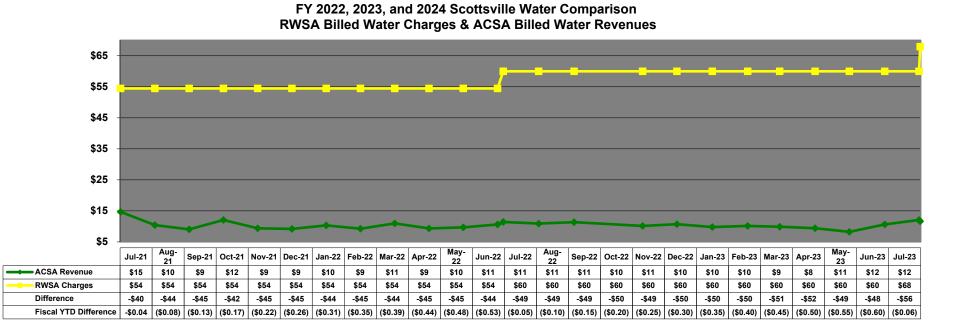


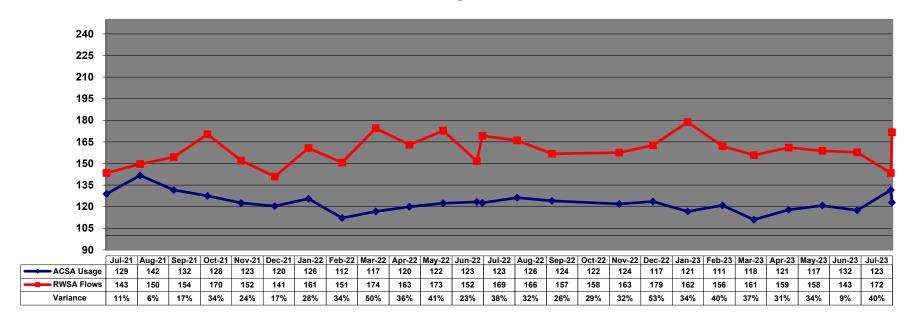




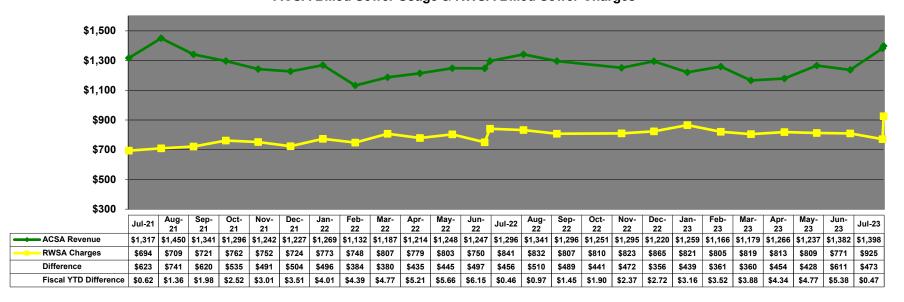
Charges and Revenues (in Thousands of Dollars)

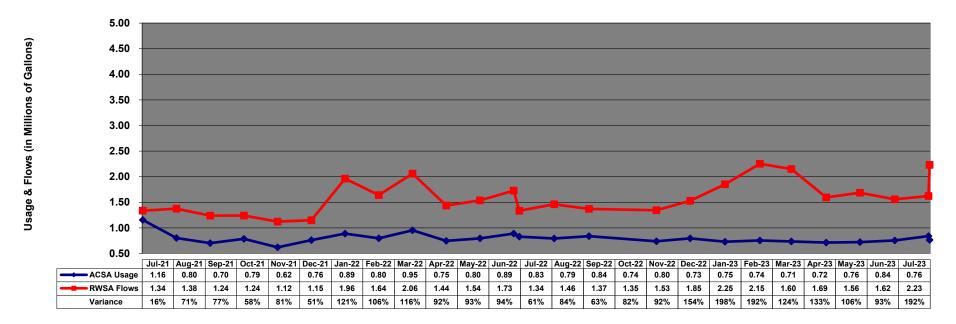




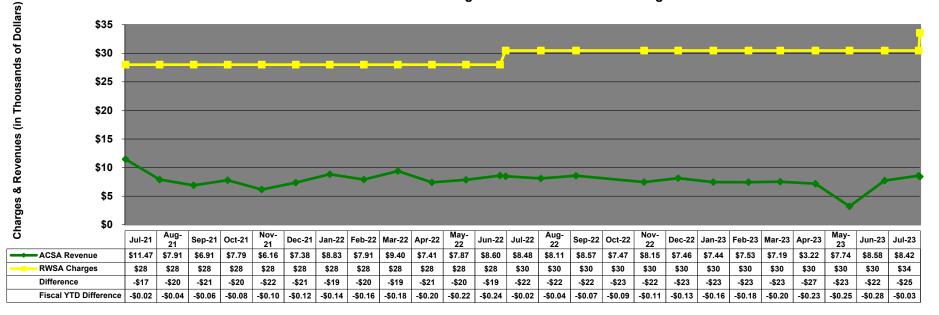


FY 2022, 2023, and 2024 Urban (including Glenmore) & Crozet Sewer Comparison ACSA Billed Sewer Usage & RWSA Billed Sewer Charges





FY 2022, 2023, and 2024 Scottsville Sewer Comparison ACSA Billed Sewer Usage & RWSA Billed Sewer Charges



Note: Fiscal YTD Difference (ONLY) in Millions of Dollars

Single-Family Residential Water Usage

(Including irrigation through exclusion, irrigation, and auxiliary meters)

		FY 2022										
	July	August	September	October	November	December	January	February	March	April	May	June
Level 1 (0 - 3,000 gallons)	45,715,768	46,650,649	45,763,766	45,032,204	45,171,862	45,419,967	45,519,835	43,528,147	44,213,375	44,847,991	45,928,802	46,038,996
Level 2 (3,001 - 6,000 gallons)	18,273,794	20,170,499	17,049,266	15,725,032	15,151,382	14,875,487	15,122,551	12,929,554	12,730,722	13,260,281	16,086,013	16,576,525
Level 3 (6,001 - 9,000 gallons)	6,123,440	7,439,890	5,100,810	4,617,427	3,808,811	2,996,781	3,076,904	2,659,279	2,230,016	2,424,233	3,744,303	4,334,397
Level 4 (over 9,000 gallons)	8,544,212	14,373,474	7,815,394	7,173,929	4,280,811	2,811,464	3,100,290	2,921,259	1,746,818	1,865,133	3,644,494	5,309,110
Total	78,657,214	88,634,512	75,729,236	72,548,592	68,412,866	66,103,699	66,819,580	62,038,239	60,920,931	62,397,638	69,403,612	72,259,028

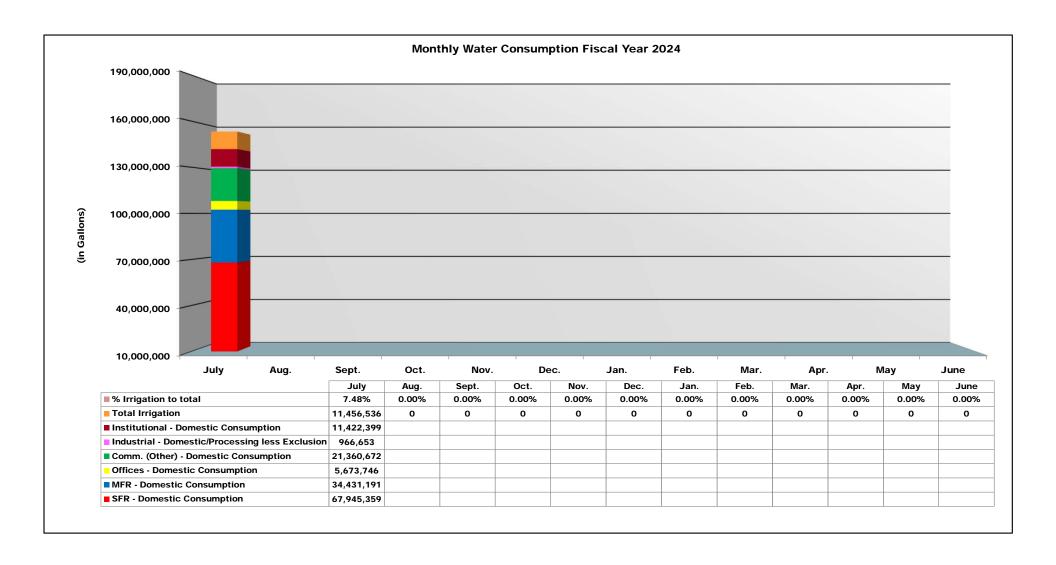
		FY 2023										
	July	August	September	October	November	December	January	February	March	April	May	June
Level 1 (0 - 3,000 gallons)	45,599,911	45,505,082	45,632,349	45,357,143	45,992,076	45,339,022	45,820,263	44,448,040	45,016,715	45,670,222	45,561,576	49,568,558
Level 2 (3,001 - 6,000 gallons)	16,363,636	15,612,084	15,525,446	15,374,370	15,677,968	13,744,408	14,908,443	12,546,428	13,038,674	13,819,163	14,442,933	18,264,878
Level 3 (6,001 - 9,000 gallons)	4,849,724	4,363,645	4,161,371	4,369,132	3,918,235	2,545,163	2,943,662	2,117,866	2,182,828	2,638,653	3,330,195	5,919,761
Level 4 (over 9,000 gallons)	7,208,522	6,639,465	6,037,842	6,071,945	4,079,700	2,079,589	2,271,075	1,540,953	1,196,536	1,979,431	3,435,895	6,675,863
												·
Total	74,021,793	72,120,276	71,357,008	71,172,590	69,667,979	63,708,182	65,943,443	60,653,287	61,434,753	64,107,469	66,770,599	80,429,060

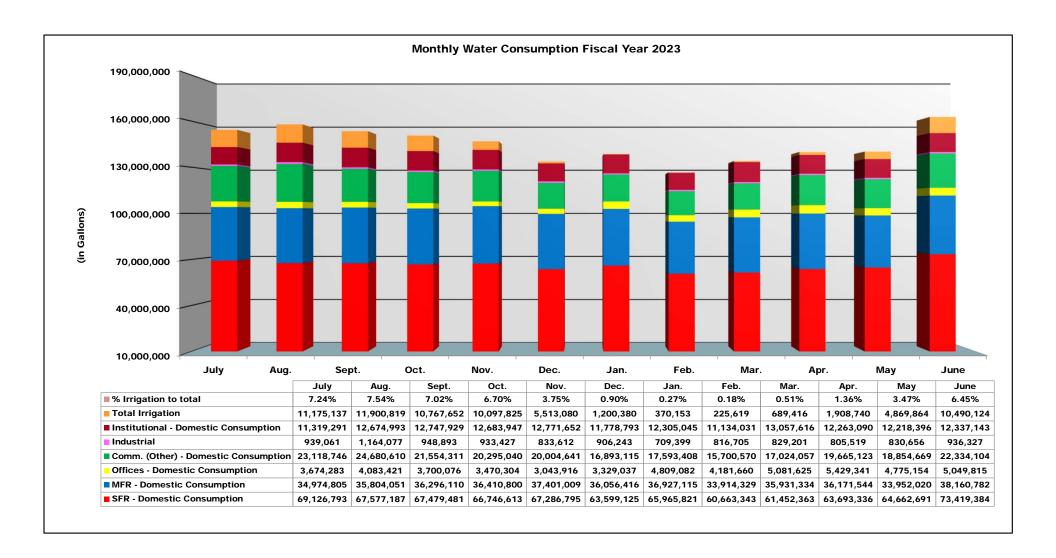
	FY 2024											
	July	August	September	October	November	December	January	February	March	April	Мау	June
Level 1 (0 - 3,000 gallons)	46,186,939											
Level 2 (3,001 - 6,000 gallons)	15,834,490											
Level 3 (6,001 - 9,000 gallons)	4,271,446											
Level 4 (over 9,000 gallons)	5,743,519											
Total	72,036,394	-	-	-	-	-	-	-	_	_	-	_

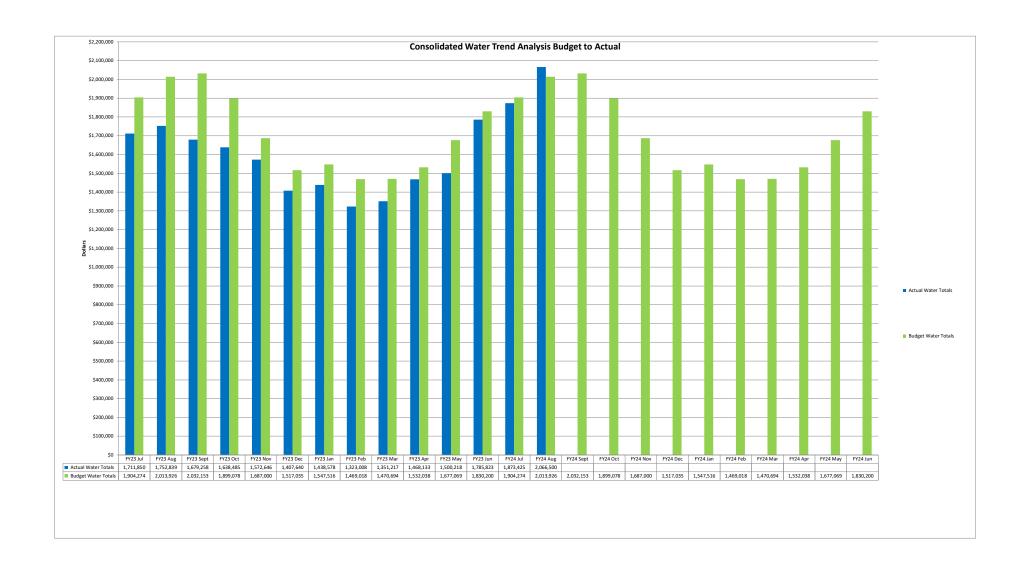
System-Wide Irrigation Water Usage

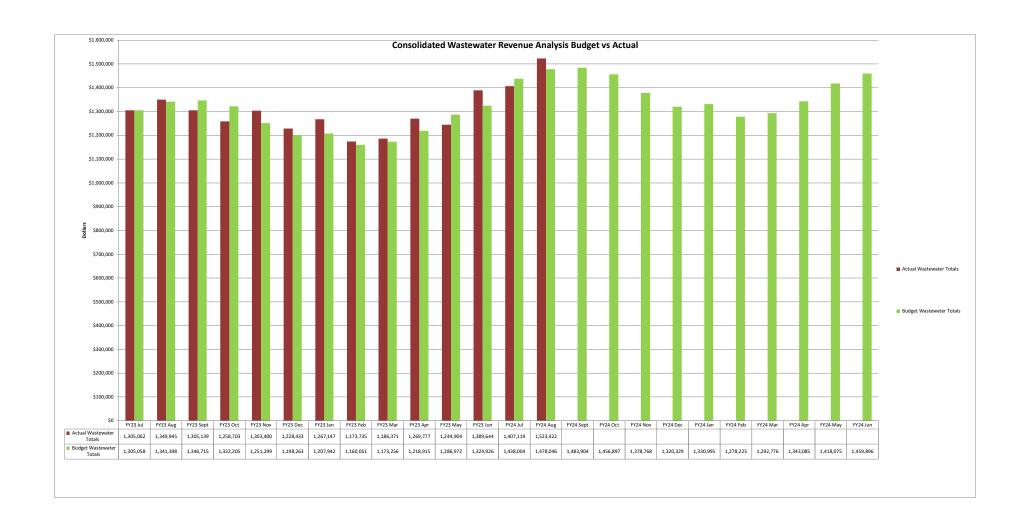
(All usage measured through exclusion, irrigation, and auxiliary meters)

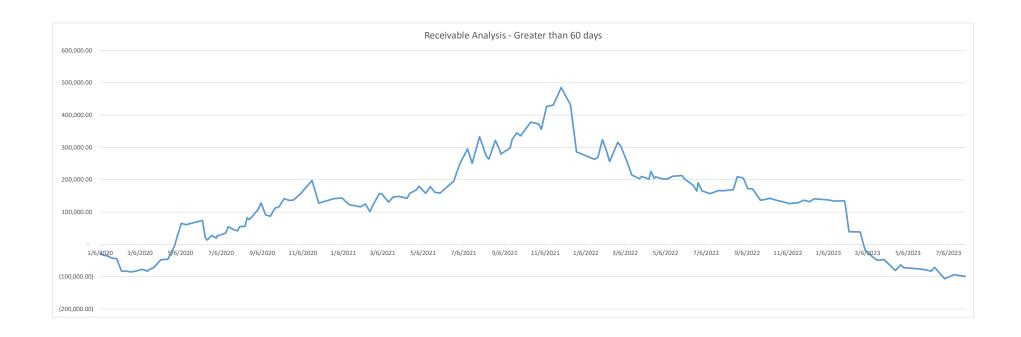
FY 2024	July	August	September	October	November	December	January	February	March	April	May	June
Level 1 (0 - 3,000 gallons)	145,819											
Level 2 (3,001 - 6,000 gallons)	657,224											
Level 3 (6,001 - 9,000 gallons)	717,195											
Level 4 (over 9,000 gallons)	9,936,298											
Total	11,456,536	-	-	-	-	-	-	-	-	-	-	-











Albemarle County Service Authority August 2023 Payments

		August 2023 Paymer		
CHECK NUMBER		VENDOR NAME	AMOUNT	DESCRIPTION OVER \$5,000
Wire	08/07/2023	Rivanna Water & Sewer Authority	2,352,970.82	Bulk Water & Sewer Treatment
66646	08/01/2023	Core & Main LP	258,757.93	AMI
	08/15/2023	Payroll	164,641.78	Net Pay
	08/31/2023	Payroll	164,449.78	Net Pay
66715	08/01/2023	Whitman, Requardt & Assoc LLP	96,394.63	Scottsville Phase 4 Design
66632	08/01/2023	Anderson Construction Inc	94,525.52	Madison Park Pump Station
479838155	08/15/2023	IRS - Federal Tax Deposit	63,520.66	Payroll
480688656	08/31/2023	IRS - Federal Tax Deposit	62,840.55	Payroll
Wire	08/21/2023	The Bank of New York Mellon	43,288.40	Debt Service
480688660	08/31/2023	County of Albemarle	36,673.08	Payroll
479838254	08/31/2023	County of Albemarle	33,321.00	Payroll
479838251	08/31/2023	Virginia Retirement System	31,473.87	Payroll
480688661	08/31/2023	Virginia Retirement System	31,473.80	Payroll
66654	08/01/2023	East Coast Utility Contractors	25,650.00	Sewer Pump Station
66650	08/01/2023	Dewberry Engineers Incorporated	22,583.83	Townwood Water Main
66739	08/15/2023	Fortiline Incorporated	22,231.95	Inventory - Lid Meter
66783	08/15/2023	Virginia Department of Health	16,611.00	Waterworks Operation Fee
66679	08/01/2023	OW Investors LLC	16,558.11	Supplies, Memberships, Tools
66662	08/01/2023	AGILIS LLC	15,867.17	4 Story Res Backflow Phases 2&3
66741	08/15/2023	Greenwood Homes	13,670.00	Refund Connections Fees
66723	08/15/2023	Bank of America	11,011.64	Supplies, Memberships, Tools
479838256	08/15/2023	Virginia Dept of Taxation	10,652.72	Payroll
480688657	08/31/2023	Virginia Dept of Taxation	10,565.12	Payroll
66729	08/15/2023	County of Albemarle	9,467.04	800 MHz Radio System
66784	08/15/2023	Cellco Partnership	7,568.68	Monthly Cellular Service
66734	08/15/2023	E Source Companies LLC	7,090.00	AMI Project - Phase 3
66756	08/15/2023	Mansfield Oil Company of Gainesville	6,911.44	Monthly Fuel Charge
66700	08/01/2023	RSG Landscaping LLC	5,142.19	Landscaping
479838253	08/15/2023	Valic	5,115.80	Payroll
480688655	08/31/2023	Valic	5,035.00	Payroll
479838250	08/15/2023	Nationwide	4,354.65	
480688653	08/31/2023	Nationwide	4,354.65	
66732	08/15/2023	Dominion Energy Virginia	4,224.60	
66678	08/01/2023	Mansfield Oil Company of Gainesville	3,944.67	
66675	08/01/2023	L/B Water Service Incorporated	3,804.66	
66776	08/15/2023	The El Group Incorporated	3,800.00	
66655	08/01/2023	Ed's Floor Care Services LLC	3,703.33	
66651	08/01/2023	Dixon Engineering Incorporated	3,570.00	
66658	08/01/2023	EWT Holdings III Corporation	3,569.83	
479838249	08/15/2023	ICMA Membership Renewals	3,321.06	
480688652	08/31/2023	ICMA Membership Renewals	3,321.06	
66653	08/01/2023	Dominion Energy Virginia	3,061.73	
66685	08/01/2023	Ramboll Americas Engineering	2,976.21	
66693	08/01/2023	PFM Asset Management LLC	2,918.24	
66724	08/15/2023	C'Ville & Albemarle Cnty Chamber of	2,900.00	
66752	08/15/2023	Lowe's	2,734.59	
66682	08/01/2023	Michael Baker International Inc	2,585.96	
66754	08/15/2023	Mailing Services of Virginia	2,288.40	
66780	08/15/2023	UniFirst Corporation	2,181.85	
66709	08/01/2023	UniFirst Corporation	2,074.58	
66667	08/01/2023	Hawkins-Graves Incorporated	1,973.53	
66738	08/15/2023	Flora Pettit PC	1,960.00	

66737	08/15/2023	Ferguson US Holdings Inc	1,895.78
66695	08/01/2023	Rappahannock Electric Co-Op	1,870.34
66771	08/15/2023	Rivanna Water & Sewer Authority	1,859.70
67816	08/31/2023	Minnesota Life Insurance Co	1,827.34
66664	08/01/2023	Fortiline Incorporated	1,805.13
66694	08/01/2023	Pinnacle Construction	1,716.19
67813	08/31/2023	Guardian	1,689.98
66728	08/15/2023	Comcast	1,669.68
66772	08/15/2023	RSG Landscaping LLC	1,614.03
479838248	08/15/2023	ACSA Flexible Spending	1,588.65
480688659	08/31/2023	ACSA Flexible Spending	1,588.65
66701	08/01/2023	S L Williamson Company Inc	1,530.15
66731	08/15/2023	Cues Incorporated	1,467.73
66677	08/01/2023	Mailing Services of Virginia	1,444.00
66785	08/15/2023	VA Utility Protection Service Inc	1,432.20
479838247	08/15/2023	Flexible Benefit	1,427.00
480688658	08/31/2023	Flexible Benefit	1,427.00
67811	08/31/2023	ACAC	1,205.00
66628	08/01/2023	Carsons LLC	1,123.83
66642	08/01/2023	C.E.S (City Electric Accounts - Chi)	927.38
66629	08/01/2023	Albemarle Lock & Safe Company	912.00
66710	08/01/2023	University Tire & Auto	901.96
66767	08/15/2023	Republic Services	833.24
66770	08/15/2023	Rivanna Solid Waste Authority	827.00
66687	08/01/2023	ODP Business Solutions LLC	813.77
479838252	08/31/2023	AFLAC	758.47
480688654	08/31/2023	AFLAC	758.47
66676	08/01/2023	Luck Stone Corporation	745.80
66751	08/15/2023	Lee Enterprises Incorporated	727.50
66750	08/15/2023	LB Technology Incorporated	700.00
66712	08/01/2023	VACORP	668.39
66711	08/01/2023	UVA-WorkMed	660.00
66635	08/01/2023	Aqua Air Laboratories Inc	650.00
66645	08/01/2023	Comcast	643.44
66782	08/15/2023	Virginia Rural Water Association	600.00
66781	08/15/2023	HD Supply Facilities Maint LTD	599.52
66735	08/15/2023	Faulconer Construction	590.00
66775	08/15/2023	Macro Retailing LLC	584.94
66686	08/01/2023	Tim O'Donnell	578.56
66696	08/01/2023	Red Wing Brands of	577.18
66733	08/15/2023	DPR Construction	555.98
66648	08/01/2023	Crown Castle	530.45
66704	08/01/2023	SnowKnows Incorporated	519.92
66666	08/01/2023	Hathaway Solutions LLC	441.51
66656	08/01/2023	Peter Ellis	426.82
67819	08/31/2023	Treasurer of Virginia	419.84
66787	08/15/2023	Treasurer of Virginia	398.40
66765	08/15/2023	Pitney Bowes Inc.	398.37
66669	08/01/2023	Wisconsin Quick Lube Inc	376.13
67817	08/31/2023	Piedmont Family YMCA	370.80
66726	08/15/2023	BRC Enterprises Incorporated	369.00
66714	08/01/2023	Protocol SSD Corporation	357.00
66638	08/01/2023	George Bloom	351.82
66639	08/01/2023	Brink's Incorporated	310.59
66720	08/15/2023	Shannon Jenkins	300.00

66762	08/15/2023	Christine Stutsman	300.00
66707	08/01/2023	Technirain Irrigation LLC	298.30
66779	08/15/2023	U. S. Bank	291.67
66673	08/01/2023	Seng B Lahtaw	286.85
66717	08/01/2023	Sara Witt	284.48
66769	08/15/2023	Ricoh USA Incorporated	275.00
66634	08/01/2023	Appalachian Power	267.13
66703	08/01/2023	Shreckhise Brothers Incorporated	266.00
66627	08/01/2023	Advance Stores Company Inc	264.52
66633	08/01/2023	John Anglin	254.65
66660	08/01/2023	FedEx	254.25
66713	08/01/2023	Van Der Linde Homes	230.15
66630	08/01/2023	David A Payne	217.70
66719	08/15/2023	Advance Stores Company Inc	212.53
66671	08/01/2023	Meghana Keshavan	210.42
66745	08/15/2023	Hawkins-Graves Incorporated	203.63
66691	08/01/2023	Mitchell Thomas	200.00
66722	08/15/2023	Aqua Air Laboratories Inc	200.00
66718	08/01/2023	Joey Wu	191.28
66683	08/01/2023	Kara Nichols	180.64
66764	08/15/2023	Performance Signs LLC	180.00
66674	08/01/2023	Brenda Langdon	168.48
66661	08/01/2023	Flexible Benefit Administrators Inc	151.25
66746	08/15/2023	Marijean Oldham	150.00
66631	08/01/2023	James Alouf	146.16
66697	08/01/2023	Red Wing Business Advantage Accou	143.49
66716	08/01/2023	William A Wells	140.00
66705	08/01/2023	CM Turf	136.00
66759	08/15/2023	MSB Coach	135.00
67815	08/31/2023	Herbert Beskin Trustee	135.00
66748	08/15/2023	Wisconsin Quick Lube Inc	132.86
66698	08/01/2023	Rexel USA Incorporated	126.83
67818	08/31/2023	Snap Fitness	119.88
66721	08/15/2023	American Pest Incorporated	118.00
66657	08/01/2023	Jill Esquivel	110.96
66740	08/15/2023	Michelle Getter	101.56
66668	08/01/2023	Vaughn Haynes	100.66
66702	08/01/2023	Ameer Shammari	100.46
66692	08/01/2023	Shu-Chen Chen	100.00
66659	08/01/2023	Joyce Farley	99.58
66684	08/01/2023	Jamie Null	98.08
66636	08/01/2023	Atlantic Machinery Incorporated	97.41
66761	08/15/2023	Brandon Gibson	90.00
66760	08/15/2023	ODP Business Solutions LLC	89.56
66753	08/15/2023	Luck Stone Corporation	85.50
66774	08/15/2023	Stony Point Development Group	77.47
66755	08/15/2023	Malloy Ford	72.96
66763	08/15/2023	Debra Owens	70.42
66747	08/15/2023	James River Communications Inc	70.00
66786	08/15/2023	William A Wells	70.00
66758	08/15/2023	Mary McCaskill	69.96
66652	08/01/2023	Document Destruction of	69.95
66680	08/01/2023	Edward Martin	69.69
66708	08/01/2023	Commonwealth of Virginia DPOR	65.00
67814	08/31/2023	The Gym	65.00

66641	08/01/2023	Kirk Childers	62.29
66706	08/01/2023	Jennie Taylor	58.65
66681	08/01/2023	Suzanne McDonald	58.62
66672	08/01/2023	Marissa Kopatic	58.21
66647	08/01/2023	Cove Creek Industries Inc	56.00
66730	08/15/2023	Cove Creek Industries Inc	56.00
66777	08/15/2023	TSRC Incorporated	52.22
66644	08/01/2023	Clear Communication &	51.00
66773	08/15/2023	Dean Sanford	50.74
66689	08/01/2023	Levi Stauffer	43.90
66766	08/15/2023	Mark Planting	43.27
66742	08/15/2023	Kathleen Hajek	42.26
66757	08/15/2023	Martin Hardware Company Inc	41.52
66749	08/15/2023	Price Chevrolet Company	40.00
67812	08/31/2023	Anytime Fitness-Pantops	40.00
66768	08/15/2023	Rexel USA Incorporated	37.77
66744	08/15/2023	Hathaway Solutions LLC	37.56
66736	08/15/2023	FedEx	36.41
66699	08/01/2023	Jens Rodsten	36.20
66725	08/15/2023	Central Virginia Electric Co-Op	35.06
66688	08/01/2023	Leonard Lohman	30.00
66690	08/01/2023	Mary Parente	30.00
66643	08/01/2023	City of Charlottesville	27.16
66670	08/01/2023	Lisa Jones	26.27
66640	08/01/2023	MWP Supply Incorporated	22.10
66665	08/01/2023	Melissa Greenspon	20.30
66637	08/01/2023	Ethan Beard	18.38
66663	08/01/2023	Dorothy Forbes	17.70
66649	08/01/2023	Nina Cullers	13.09
66727	08/15/2023	City of Charlottesville	11.90
66778	08/15/2023	Thryv Incorporated	6.50
66743	08/15/2023	Hasbrouck Management	3.12
			3,776,864.31

ALBEMARLE COUNTY SERVICE AUTHORITY

AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: FY 2024 Capital Improvement Program (CIP) Report

AGENDA DATE: September 21, 2023

STAFF CONTACT(S)/PREPARER:

CONSENT AGENDA:

Jeremy M. Lynn, P.E., Director of

ACTION: ■ INFORMATION: ■

Engineering

ATTACHMENTS: YES

BACKGROUND: Monthly CIP Memo including a status report on active CIP Projects and a list of Active Private Development Projects.

DISCUSSION:

Questions about the status of active CIP Projects.

Questions about the status of active Private Development Projects.

BUDGET IMPACT: None.

RECOMMENDATIONS: None.

BOARD ACTION REQUESTED: Approval of the Consent Agenda.

ATTACHMENTS:

- Monthly CIP Report
- List of Active Private Development Projects

Albemarle County Service Authority (ACSA) Capital Improvement Project Report September 2023

Water System CIP Projects

1. Crozet Phase 4 Water Main Replacement (Account Code 1756):

Consultant: Michael Baker International, Inc. (Baker)

Project Status: Construction

Percent Complete: 0%

Contractor: Undetermined Construction Start: October 2023

Completion: 2025

Total Budget: \$6,534,400 Appropriated Funds: \$588,156

Project Description: This project continues our systematic program to replace the aging and undersized asbestos-cement and PVC water mains in the Crozet Water System. Roads impacted by water replacement work include Crozet Avenue (Route 240), Rockfish Gap Turnpike (Route 250), Hillsboro Lane, Brownsville Road, and the neighborhood streets in Park View. This is the fourth of five phases that have been defined to carry out these improvements.

9/12/2023: On September 6, 2023, three bids were received for the Crozet Phase 4 Water Main Replacement Project. Baker is in the process of checking references for the apparent low bidder, and we anticipate presenting an authorization to the Board at the October Meeting.

2. Scottsville Phase 4 Water Main Replacement (Account Code 1758):

Consultant: Whitman, Requardt & Associates, Inc. (WRA)

Project Status: Design Percent Complete: 90%

Contractor: Undetermined

Construction Start: 2024 Completion: 2026

Total Budget: \$6,804,900 Appropriated Funds: \$499,410

Project Description: This project continues our systematic program to replace undersized and deteriorating asbestos-cement and cast-iron water mains throughout our water distribution system. Roads impacted by water replacement work include James River Road, Warren Street, Hardware Street, Moores Hill, and the downtown streets of Page, Bird, and West Main. This project requires extensive coordination with the Rivanna Water and Sewer Authority (RWSA) as it includes the replacement of their asbestos-cement water main along James River Road.

9/12/2023: Comments on the 90% Design Documents will be returned to WRA before the end of September 2023.

3. Ragged Mountain Phase 1 Water Main Replacement (Account Code 1760):

Consultant: Dewberry Engineers, Inc. (Dewberry)

Project Status: Design Percent Complete: 90%

Contractor: Undetermined
Construction Start: Undetermined
Completion: Undetermined
Total Budget: \$1,218,400
Appropriated Funds: \$203,614

Project Description: This project will replace the oldest active water main remaining in our system serving residents along Fontaine Avenue Extended and Reservoir Road. This cast iron pipe is over 90 years old and is severely tuberculated, which significantly reduces the flow capacity in this section.

9/12/2023: Geotechnical boring information has been provided to Dewberry and they have begun efforts in preparing the Draft Technical Memorandum, which will explore four alternatives to cross Morey Creek.

4. Northfields Water Main Replacement (Account Code 1764):

Consultant: OBG, A Ramboll Company (Ramboll)

Project Status: Design Percent Complete: 50%

Contractor: Undetermined

Construction Start: 2026 Completion: 2027

Total Budget: \$8,530,000 Appropriated Funds: \$655,997

Project Description: This project continues our systematic program to replace the aging and undersized asbestos-cement water mains in our system. The existing water mains are approximately 55 years old and have reached the end of their useful life. As a former well system that was connected to public water, most of the mains are also undersized.

9/12/2023: Ramboll is developing the 90% Design Documents and is scheduled to submit those to the ACSA before the end of September 2023.

5. Huntington Village Water Connection (Account Code 1770):

Consultant: ACSA Engineering Department

Project Status: Design Percent Complete: 100%

Contractor: Undetermined

Construction Start: 2024 Completion: 2024 Total Budget: \$60,700 Appropriated Funds: \$3,533

Project Description: The existing water main that serves as the only feed into Huntington Village off Old Ivy Road is at risk of failure due to an existing rock retaining wall that was constructed overtop of the water main. This project provides a second water connection into Huntington Village which is comprised of approximately 135 residential customers.

8/9/2023: The 100% Design Documents have been completed by ACSA staff. Construction for this project will take place following award of the upcoming Annual Water Services Contract that is nearing design completion.

6. Briarwood Water Main Replacement (Account Code 1766):

Consultant: OBG, A Ramboll Company (Ramboll)

Project Status: Design Percent Complete: 50%

Contractor: Undetermined

Construction Start: 2026 Completion: 2027

Total Budget: \$2,220,000 Appropriated Funds: \$255,338

Project Description: This project continues our systematic program to replace PVC water mains that have been in service since the early 1980's and have recently experienced several breaks causing water service disruptions.

8/9/2023: ACSA staff have provided comments on the revised geotechnical boring plan prepared by Ramboll. Ramboll is transitioning to a new project manager, and they are working on the 90% Design Documents.

7. Barracks West Water Main Replacement (Account Code 1796):

Consultant: Dewberry Engineers, Inc. (Dewberry)

Project Status: Design Percent Complete: 90%

Contractor: Undetermined

Construction Start: 2024 Completion: 2025

Total Budget: \$3,402,000 Appropriated Funds: \$218,191

Project Description: This project will replace the undersized and aging cast iron and galvanized water mains that were installed in the late 1960's. These water mains are original to the Old Salem Apartments development, now called Barracks West. This project follows our Strategic Plan goal to replace aging and undersized water mains throughout our system and will provide for an opportunity to improve fire protection to these multi-family apartments.

9/12/2023: Comments on the 90% Design Documents and draft easement plat will be provided to Dewberry this week.

8. Townwood Water Main Replacement (Account Code 1773):

Consultant: Dewberry Engineers, Inc. (Dewberry)

Project Status: Design Percent Complete: 50%

Contractor: Undetermined

Construction Start: 2028 Completion: 2028

Total Budget: \$1,300,000 Appropriated Funds: \$169,180

Project Description: This project continues our systematic program to replace PVC water mains that have been in service since the early 1980's and have recently experienced several breaks causing water service disruptions.

9/12/2023: ACSA staff met with a Townwood HOA representative on August 9, 2023, to introduce the project. ACSA staff will be performing a site walkthru the week of September 11, 2023, prior to returning comments on the 50% Design Documents.

9. Broadway Street Water Main Replacement (Account Code 1768):

Consultant: Whitman, Requardt & Associates, Inc. (WRA)

Project Status: Design Percent Complete: 90%

Contractor: Undetermined

Construction Start: 2024 Completion: 2024

Total Budget: \$1,417,800 Appropriated Funds: \$128,000

Project Description: This project will replace the ductile iron water main that was installed in the early 1970's and has been found to be in deteriorating condition based on recent excavations. With the redevelopment of the Woolen Mills Factory and Albemarle County's increased attention on economic revitalization of this corridor, replacement of this water main is crucial in transforming this area.

9/12/2023: ACSA and County staff met on August 23, 2023, to discuss the County's status of their Broadway Blueprint initiative, with no conflicts anticipated between the two projects. ACSA staff have identified the need to acquire one easement along Broadway Street, and we have begun the process of contacting the property owner.

10. Raintree and Fieldbrook Water Main Replacement (Account Code 1771):

Consultant: Michael Baker International, Inc. (Baker)

Project Status: Design Percent Complete: 50%

Contractor: Undetermined

Construction Start: 2027 Completion: 2028

Total Budget: \$6,432,300 Appropriated Funds: \$290,887

Project Description: This project continues our systematic program to replace the PVC water mains in the Raintree and Fieldbrook subdivisions that have been in service since the early 1980's. In addition to replacing these PVC mains, this project will also eliminate pipe saddles at the water service connections that have been failing due to corrosion.

8/9/2023: With construction currently scheduled for FY 2027 and FY 2028, ACSA staff have strategically identified this project as one to put in hold until we have made significant progress on higher priority projects. ACSA staff has received the 50% Design Documents from Baker.

11. Lewis Hill - West Leigh Water Connection (Account Code 1754):

Consultant: ACSA Engineering Department

Project Status: Design Percent Complete: 95%

Contractor: Undetermined

Construction Start: 2024
Completion: 2024
Total Budget: \$80,900
Appropriated Funds: \$7,125

Project Description: An existing PVC water main that serves as a connection between West Leigh Subdivision and Lewis Hill Subdivision was found to be compromised due to the encroachment of a nearby stream. The water main has been taken out of service to avoid a catastrophic failure and the resulting large volume of lost water. This project re-establishes the connection from West Leigh by taking advantage of the recent water main replacement along Sheffield Road with an 8-inch diameter pipe.

9/12/2023: The Lewis Hill HOA has indicated a preference for the ACSA to follow the alternative route that requires them granting a new easement. They have indicated their desire to have a third-party appraiser determine the value of the easement, so they are in the process of having the easement appraised.

12. Exclusion Meters Replacement (Account Code 1759):

Consultant: ACSA Engineering Department

Project Status: Construction

Percent Complete: 40%

Contractor: ACSA Maintenance Department

Construction Start: September 2019

Completion: 2024 Total Budget: \$742,500 Appropriated Funds: \$247,500

Project Description: In the mid 1990's with the development of Glenmore, many new customers installed irrigation systems for their properties and wanted to have their sewer bills reduced by the amount of water that was diverted to irrigate their properties. Private meters were installed behind their ACSA meter to record this volume and it was "excluded" from the calculation of their sewer charges and these became known as exclusion meters. On January 1, 2006, the ACSA Rules and Regulations were modified to no longer allow exclusion meters and required all future irrigation meters be tapped separately off our water mains. This project is a multi-year replacement program by our in-house CIP Crew to install dedicated, ACSA owned irrigation meters that will eliminate all remaining exclusion meters in our system.

9/12/2023: ACSA Maintenance crews have completed all remaining exclusion meter switchovers in the Darby Road (west) section of Glenmore. Crews anticipate remobilizing in early October 2023 to conduct follow-up restoration activities during more favorable weather conditions. This restoration schedule has been communicated to the community through an ACSA letter shared by the HOA. There are currently 296 private irrigation exclusion meters remaining in our system.

Sewer System CIP Projects

13. Sewer Pump Station Comminutors (Account Code 1827):

Consultant: Whitman, Requardt & Associates, Inc. (WRA)

Project Status: Construction

Percent Complete: 100%

Contractor: East Coast Utility Contractors, Ltd. (ECUC)

Construction Start: July 2022

Completion: September 2023

Total Budget: \$731,300 Appropriated Funds: \$616,193

Project Description: Three sewer pump stations: Glenmore, Georgetown Green, and Crozet have all experienced higher than normal amounts of solid debris that have caused undue wear and tear on our pumps, reducing their effective life. They have also been subjected to clogging from the fibrous cloth wipes that are marketed as flushable but do not break down in the sanitary sewer collection system. Maintenance identified the need to install comminutors (aka grinders) in the wet wells or just upstream of them, to eliminate these solids that are adversely impacting our pumps.

9/12/2023: ECUC has begun submitting the necessary closeout documents to the ACSA for review. WRA is currently in the process of reviewing O&M manuals provided by ECUC.

14. Madison Park Pump Station Upgrade (Account Code 1735):

Consultant: Whitman, Requardt & Associates, Inc. (WRA)

Project Status: Construction

Percent Complete: 0%

Contractor: Anderson Construction, Inc. (ACI)

Construction Start: October 2022
Completion: November 2023
Total Budget: \$1,940,000
Appropriated Funds: \$2,003,831

Project Description: This wastewater pump station was constructed in the early 1980's by private development and the original equipment is nearing the end of its useful life. Additionally, the building is undersized creating difficulty in performing routine maintenance and making it impossible to install the control panels necessary to include this pump station in our new SCADA System.

9/12/2023: WRA recently returned the pump skid submittal indicating *Revise* and *Resubmit*, requiring a fifth submission. The issues with the submittal related to the responsible party of several electrical and wiring components inside the panel.

15. Airport Trunk Sewer Upgrade (Account Code 1828):

Consultant: Michael Baker International, Inc. (Baker)

Project Status: Design
Percent Complete: 90%

Contractor: Undetermined

Construction Start: 2026 Completion: 2028

Total Budget: \$6,183,800 Appropriated Funds: \$378,459

Project Description: With the continued growth in the Hollymead Town Center area, the existing sewer collector serving the airport and the area west of Route 29 has insufficient capacity to handle full build-out. The existing sewer was originally sized to serve the light industrial zoning designated for that area at the time of construction. The increased density specified in the County Comprehensive Plan for the same drainage basin will exceed the capacity of the existing sewer. A study of the drainage basin was completed in 2016 with the recommendation the sewer main be increased in size by replacing it in place.

8/9/2023: The private development team has shared the ACSA's current design drawings with multiple contractors to obtain feedback on any construction challenges and to better understand the financial impacts. To date, 8 of 24 easements have been obtained.

16. Bellair - Liberty Hills Sewer (Account Code 1829):

Consultant: Michael Baker International, Inc. (Baker)

Project Status: Design Percent Complete: 50%

Contractor: Undetermined

Construction Start: 2025 Completion: 2026

Total Budget: \$6,393,715 Appropriated Funds: \$380,295

Project Description: Over the past several years, there has been an uptick in residents of the Bellair Subdivision seeking to connect to public sanitary sewer service since most residents are currently served by private septic fields. To gauge community interest for such a project, ACSA staff mailed out a survey to the residents seeking feedback on their interest. Based on initial feedback received, many of the property owners are interested in connecting to public sewer if it was made available.

8/9/2023: ACSA staff is working with Baker to revise the design to minimize the areas within the neighborhood that will be served by E/One systems. ACSA staff is discussing how to best deploy E/One systems on an ACSA project.

17. <u>Biscuit Run Sewer Replacement (Account Code 1830)</u>:

Consultant: OBG, A Ramboll Company (Ramboll)

Project Status: Construction

Percent Complete: 0%

Contractor: Undetermined

Construction Start: 2024
Completion: 2024
Total Budget: \$479,600
Appropriated Funds: \$756,419

Project Description: During a routine inspection, the ACSA's Maintenance Department discovered an existing gravity main and manhole along an intermittent stream that drains into Biscuit Run had been exposed due to runoff. This project will replace the sewer segment that crosses the stream with ductile iron pipe and will reinforce the stream bank where the sewer manhole is exposed.

9/12/2023: ACSA staff is working on bid documents to advertise for construction this fall.

18. FY 2024 Miscellaneous Sewer Rehabilitation (Account Code 1908):

Consultant: OBG, A Ramboll Company (Ramboll)

Project Status: Construction
Percent Complete: Underway

Contractor: Prism Contractors & Engineers, Inc. (Prism)

Construction Start: June 2023 Completion: June 2024 Total Budget: \$500,000 Appropriated Funds: \$500,000

Project Description: This project continues our annual "find and fix" program of sanitary sewer rehabilitation to reduce I&I in our system.

9/12/2023: Work Order No. 1 was issued August 11, 2023, and includes CCTV inspection of approximately 1,900 linear feet, CIPP relining of approximately 660 linear feet, and rehabilitation of five manholes. Work Order No. 2 was issued August 18, 2023, and includes installation of a segmental liner along 5th Street Extended due to damage caused by a geotechnical boring contractor. Work Order No. 3 was issued September 1, 2023, and includes a sewer point repair along Commonwealth Drive due to damage caused by the installation of an electrical line. Work Order No. 3 was completed on September 5, 2023. The ACSA will be reimbursed by the responsible parties for costs associated with Work Order No.'s 2 and 3.





Non-Utility and Facility CIP Projects

19. Risk Assessment Improvements (Account Code 1621):

Consultant: Dewberry Engineers, Inc. (Dewberry)

Project Status: Construction

Percent Complete: 95%

Contractor: Harrisonburg Construction Co., Inc. (HCC)

Construction Start: November 2022 Completion: September 2023

Total Budget: \$1,221,950 Appropriated Funds: \$1,222,048

Project Description: This project focuses on implementation of recommendations from our Vulnerability Assessment that was completed in conjunction with our community partners, which identified mitigation measures to lower risks and increase resiliency for the ACSA. Priority 1 improvements focus on fencing and door hardening at existing tank and pump station sites. Priority 2 focuses on the creation of sterile zones around various sites. Priorities 3 and 4

focus on installation of new fencing and lightening protection. Some mitigation measures have already been completed with others phased over upcoming fiscal years based upon priority.

9/12/2023: Delivery of the final security doors has been delayed. HCC anticipates beginning installation efforts before the end of September 2023.

20. ESRI ArcGIS Utility Network Implementation Study (Account Code 1628):

Consultant: Timmons Group

Project Status: Study
Percent Complete: 0%

Project Start: September 2023
Completion: March 2024
Total Budget: \$225,000
Appropriated Funds: \$45,228

Project Description: The software vendor for the ACSA's Geographic Information System (GIS) has released a product called Utility Network which could enable additional functionality that would benefit ACSA staff. Implementing this software would entail a major change to the structure of the GIS as well as how it is accessed, maintained, modified, and updated going forward. It also would impact all integrated software. This study will determine if a migration is possible due to the various integrations and processes currently in place. The study will weigh the benefits with the consequences of implementing the software. It will also determine what changes would be necessary to the GIS before the data is in a format which can be migrated into the Utility Network.

9/12/2023: The contract with Timmons Group has been finalized. The kick-off meeting was held on September 12, 2023, and the study is now underway. Discovery meetings will occur throughout the next month.

21. Energy Audit (Account Code 1625):

Consultant: OBG, A Ramboll Company (Ramboll)

Project Status: Construction

Percent Complete: 0%

Contractor: ACSA Facilities Group

Construction Start: July 2023
Completion: October 2023
Total Budget: \$390,000
Appropriated Funds: \$296,000

Project Description: This project consists of a comprehensive energy audit of the Operations Center and all pump stations. The Energy Audit evaluated current energy consumption and the factors that drove it, as well as analysis of our utility rate structures to identify potential cost savings. Surveys were conducted of all systems, including operation and maintenance procedures to determine where energy conservation could be improved. Recommendations from the Energy Audit included: LED Lighting Retrofit, Occupancy Based HVAC Controls, replacement of Domestic Water Heater, improved efficiencies of water and wastewater pumps,

pursuit of Electric Fleet Vehicles (EV) and exploration of Solar Photovoltaic renewable energy.

9/12/2023: The replacement domestic water heater at the Spotnap Facility has arrived and installation is anticipated before the end of September 2023.



22. Avon Operations Center (Account Code 1622):

Consultant: Dewberry Engineers, Inc. (Dewberry)

Project Status: Design Percent Complete: 95%

Contractor: Undetermined

Construction Start: 2024 Completion: 2025

Total Budget: \$11,990,000 Appropriated Funds: \$933,857

Project Description: As part of the Operations Center Expansion Study our consultant reviewed all properties owned by the ACSA that could be utilized as we continue to grow. The Avon Street property has long been held as a future location to build additional facilities in a central location, as needed. The current Maintenance Yard at our Operations Center is becoming overcrowded with equipment and materials, causing us to locate some equipment and larger materials in the former ACSA Maintenance Yard at the Crozet Water Treatment Plant, which we lease from RWSA. The future expansion of granular activated carbon (GAC) at the Crozet Water Treatment Plant site will result in the loss of much of the ACSA's storage space at that site. This project will begin to develop the Avon Street property into a much larger vehicle and materials storage facility, including a training area for our equipment operators.

9/12/2023: Dewberry is in the process of addressing minor comments on the three easement plats.

23. ACSA - Fire Suppression System Replacement (Account Code 1631):

Consultant: Undetermined

Project Status: Study
Percent Complete: 0%
Construction Start: 2024
Completion: 2024
Total Budget: \$750,000

Appropriated Funds: \$0

Project Description: This project replaces the existing fire suppression system in both the Administration and Maintenance buildings here at our Operations Center. During a recent inspection, it was noted that the piping is beyond its useful life and a complete replacement was recommended. The ACSA anticipates utilizing a Design/Build Contract to perform this work.

9/12/2023: The Request for Qualifications (RFQ) for pre-qualification has been advertised with a deadline of September 26, 2023. A Pre-Submission Conference was held on September 6, 2023, with several interested firms in attendance.

24. Records Management Project (Account Code 1632):

Consultant: Right Fit Consulting

Project Status: Study
Percent Complete: 0%

Study Start: September 2023 Completion: December 2023

Total Budget: \$325,000 Appropriated Funds: \$10,800

Project Description: The goal of this project is to improve record compliance and retention while digitizing paper files currently in storage. The initial phase of the Records Management Project consists of the classification of each document, so they are properly and securely stored and maintained. Ultimately files across the organization will be scanned and searchable digital files created, allowing physical space to be freed up.

9/12/2023: The Scope of Work for Data Classification Services has been executed and a kick-off meeting is anticipated the week of September 18, 2023.

25. Four-Story Backflow Prevention Assembly Retrofit (Account Code 1765):

Consultant: ACSA/Dewberry Engineers, Inc. (Dewberry)

Project Status: Construction

Percent Complete: 84%

Contractor: Foothill Irrigation

Construction Start: February 2023
Completion: October 2023
Total Budget: \$348,000
Appropriated Funds: \$360,295

Project Description: In late 2018 ACSA staff became aware of four-story residential structures being constructed without proper backflow prevention assemblies. Section 8 of the ACSA Rules and Regulations details the ACSA Backflow Prevention Program. This program is in accordance with 12VAC5-590-570 through 12VAC5-590-630 of the Virginia Waterworks Regulations. The Containment Policy in 12VAC5-590-610 outlines the requirement for a backflow prevention (BFP) assembly on the domestic water service line to high rise structures, defined as four (4) or more stories.

9/12/2023: Foothill Irrigation recently completed three installations on Saturday, September 9, 2023, and has another scheduled for September 14, 2023. There are currently 7 assemblies remaining to be installed.





26. SCADA System Phase 3 (Account Code 1605):

Consultant: Whitman, Reguardt & Associates, Inc. (WRA)

Project Status: Construction

Percent Complete: 25%

Contractor: M.C. Dean
Construction Start: November 2022
Completion: December 2023

Total Budget: \$943,115 Appropriated Funds: \$1,224,918 **Project Description:** The ACSA Utility System has over 40 critical assets that include water and wastewater pump stations, water storage tanks and master PRV stations. They are considered critical because malfunctions or failures at any of the assets could have a drastic effect on our utility system and our customers. These assets are currently monitored by site visits of assigned Maintenance personnel. Phase 3 will expand the existing Supervisory Control and Data Acquisition (SCADA) System to serve the final seven master PRV stations and one water booster station that will allow ACSA employees to remotely monitor the operations of these critical assets from the main office building. Using alarms, we will be able to evaluate problems and prevent some failures before they happen more quickly.

9/12/2023: M.C. Dean has met with the electrical service providers at each of the sites and has received approved electrical permits for all sites except for Northfields. Most of the sites have had concrete pads prepared with the pours scheduled for the week of September 11, 2023. M.C. Dean began installation efforts at the Forest Lakes North PRV on September 12, 2023.





Albemarle County Service Authority (ACSA) Active Private Development Projects September 2023

- a. Albemarle Business Campus Block 1 (Scottsville): Water and sewer main extensions to serve 128 multi-family units. The site is located to the northeast of the Old Lynchburg Road and Country Green Road intersection.
- b. <u>Belvedere Phase 5B (Rio)</u>: Water and sewer main extensions to serve 20 single family homes at the end of Fowler Street in the back of Belvedere.
- c. <u>Brookhill Blocks 9-11 (Rivanna)</u>: Water and sewer main extensions to serve 85 single family homes in the Brookhill subdivision, located east of Stella Lane between Ashwood Boulevard and Archer Avenue.
- d. Brookhill Blocks 16 & 17 (Rivanna): Water and sewer main extensions to serve 135 single family homes in the Brookhill subdivision, located north of Polo Grounds Road and east of the Montgomery Ridge Subdivision.
- e. <u>Dunlora Park Phase 2 (Rio)</u>: Water and sewer main extensions to serve 6 single family homes in Dunlora Park, located at the intersection of Rio Road East and Dunlora Drive.
- f. HTC Area C Townhomes Block III (Rio): Sewer extension and water services to serve 10 attached single family units. The site is located near the intersection of Timberwood Boulevard and Lockwood Drive.
- g. Lochlyn Hill Phase 4 (Rio): Water and sewer main extensions, and demolition of 14 existing homes for 14 single family detached units and 8 single family attached units. This project is located along Pen Park Lane, north of the City limits.
- **h.** Mountain View Elementary Building Addition (Scottsville): Water main extension to facilitate building addition.
- i. North Pointe Apartments (Rivanna): Water main extension and a sewer connection to serve 279 multifamily units and a clubhouse. The project is located at the intersection of Northside Drive and Cliffstone Boulevard.
- j. North Pointe Section 2 (Rivanna): Water and sewer main extensions to serve 162 single family homes. The project is located at the northern end of Cliffstone Boulevard.

- **k.** <u>Pleasant Green Phase 2B and 3 (White Hall)</u>: Water and sewer main extensions to serve 173 residential units. This project is located to the southeast of the Orchard Acres subdivision.
- I. Regents School of Charlottesville (Samuel Miller): Water and sewer main extensions to serve a private school, grades K-12. The site is located west of Trinity Presbyterian Church, along Reservoir Road.
- m. Rivanna Village Phase 2 (Scottsville): Water and sewer main extensions to serve 178 residential units. This project is located east of the Glenmore Ground Storage Tank and Rivanna Village Phase 1.
- n. <u>Scottsville Tiger Fuel (Scottsville)</u>: Water service and sewer main extension to serve a gas station. This project is located to the south of the Scottsville Road and James River Road intersection.
- o. Southwood Phase 1 Blocks 9-11 (Scottsville): Water and sewer main extensions to serve 70 single family units and 16 condominium units. This project is located west of Horizon Road and south of Hickory Street.
- p. Southwood Redevelopment Village 2 (Scottsville): Water and sewer main extensions to serve 44 single family units and 4 condominium units. This project is located near the southern terminus of Horizon Road, on the south side of Hickory Street.
- q. Stonefield Block D1 (Jack Jouett): Water main extension to serve a 220 unit apartment building at the intersection of Inglewood Drive and Bond Street.
- r. <u>Victorian Heights (Rio)</u>: Water and sewer main extensions to serve 34 attached single family and 54 multi-family units. The site is located to the south of RWSA's Woodburn Road Water Tank, between Woodburn Road and Berkmar Drive.

AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Rivanna Water & Sewer Authority (RWSA) Monthly

Update

STAFF CONTACT(S)/PREPARER:

Gary O'Connell,

Executive Director

AGENDA DATE: September 21, 2023

CONSENT AGENDA: Informational

ATTACHMENTS: No

BACKGROUND: This report continues the monthly updates on the Rivanna Water & Sewer Authority (RWSA) projects and Board meetings. Below are some updates on RWSA major projects and issues, including updates from the August 27th RWSA Board Meeting and other communications.

RWSA Board Meeting and other Updates and Approvals at the August 27th Board Meeting:

- Operational Presentations: With several new Board members, the RWSA staff did overviews of two operational areas: (1) Urban Water Supply Plan and Demand Review, and (2) Wastewater Facilities Review. No new information was provided, this all a "refresher." If any of the Board would like a copy, I can get you an electronic version of the PowerPoints.
- Ragged Mountain Dam Agreement Status: This agreement draft is being discussed by the four (City, County, RWSA, and ACSA) Attorneys to agree to a 12-foot raise of the reservoir level at Ragged Mountain. Tied to that are minimum instream flows to protect the Moorman's River flows. An extension of the lease agreement between RWSA and the City is included in this discussion. Further updates coming as this draft moves on from attorneys.
- RWSA FY'23 Operation Budget Ended in a Deficit: The RWSA year ended in an overall net deficit of \$1.5 million, or 3.5% above the annual budget of \$41.8 million. Total revenues are \$1.9 million over budget (6%), and expense overages are a result of projects, IT related expenses, dramatic (+60%) cost increases for chemicals, and unbudgeted repair costs. A final tally of the revenues and expenses will be presented to the Board at the September meeting. Reserves are available to cover the overages. We will need to review the current budget for any needed adjustments.

RWSA Major Capital Project Updates:

RWSA continues to work with UVA to acquire the final easements on the following major water piping projects:

AGENDA ITEM EXECUTIVE SUMMARY

1. <u>South Fork Rivanna to Ragged Mountain Reservoir Water Pipe - 8 miles of 36" pipe:</u>

Status: Negotiations with UVAF have been completed. Details are being finalized for the documents before signatures.

2. <u>Ragged Mountain Reservoir to Observatory WTP Water Pipe and Pump Station - 5 miles of 36" pipe</u>:

Status: Rivanna's coordinating with UVA on an alternate pipeline alignment north of Fontaine Avenue to avoid a potential conflict with a cemetery.

3. <u>Central Water Line - 5 miles of 24" and 36" water pipe primarily along Cherry Avenue:</u>

Status: Engineering plans and specifications are at the 90% stage of completion. Construction is expected to begin in December 2024, extended due to delivery of pipe reportedly taking 6-9 months. An extensive communication effort will be completed with the communities adjacent to the project before construction begins. Efforts to obtain easements are underway.

• South Rivanna and Observatory Water Treatment Plant Renovations

Design Engineer: Short Elliot Hendrickson, Inc. (SEH)
Construction Contractor: English Construction Company

Construction Start: May 2020 Percent Completion: 90%

Completion Date: October 2023
Base Construction Contract: \$37,889,941
Approved Capital Budget: \$43,000,000

Current Status:

South Rivanna work essentially completed with sludge pump improvements, general site improvements and final instrumentation programming work. Improvements continue at the Observatory Plant including completion of the new chemical building, GAC building expansion and general site improvements.

History:

The Observatory project includes the design and costs for upgrading the plant systems to achieve an upgraded 10 mgd plant capacity. Much of the Observatory Water Treatment Plant is original to the 1953 construction.

AGENDA ITEM EXECUTIVE SUMMARY

Airport Road Water Pump Station and Piping

Design Engineer: Short Elliot Hendrickson (SEH)

Contractor: Anderson Construction

Construction Start: December 2021

Percent Complete: 55%

Completion Date: September 2024 Budget: \$10,000,000

Current Status:

The block walls are being erected at the pump station. Installation of two parallel water lines along Berkmar Drive is nearly complete. A new water line near the Timberwood Boulevard traffic circle is to be completed.

History:

The Route 29 Pipeline and Pump Station Master Plan was developed in 2007 and originally envisioned as a multi-faceted project that reliably connected the North and South Rivanna pressure bands; reduced excessive operating pressures and developed a new Airport pressure zone to serve the highest elevations near the Airport and Hollymead Town Center. The master plan update was completed in June of 2018 to reflect the changes in the system and demands since 2007.

Ragged Mountain Reservoir to Observatory Water Treatment Plant Raw Water Line and Raw Water Pump Station

Design Engineer: Michael Baker International (Baker)

Project Start:

Project Status:

Construction Start:

Completion:

Current Project Estimate:

August 2018

Design 75%

September 2024

December 2028

\$44,000,000

Current Status:

Preparation of engineering plans and specifications continues. RWSA staff is reviewing plans for the 90% design phase for the water line, which includes the vast majority of the piping to be installed under the project. Easement negotiations with UVA, and the UVA Foundation continue.

AGENDA ITEM EXECUTIVE SUMMARY

History:

Raw water is currently transferred from the Ragged Mountain Reservoir (RMR) to the Observatory Water Treatment Plant by way of two 18-inch cast iron raw water lines, which have been in service for more than 110 and 70 years, respectively. The proposed water line will be able to reliably transfer water to the expanded Observatory Plant, which, upon completion, will have the capacity to treat 10 mgd. The new single water line will be constructed of 36-inch ductile iron and will be approximately 14,000 feet in length.

The RMR to Observatory WTP raw water pump station is planned to replace the existing Stadium Road and Royal Pump Stations, which have exceeded their design lives or will require significant upgrades with the Observatory WTP expansion. The pump station will pump up to 10 mgd of raw water to the Observatory WTP. Integration of the new pump station with the planned South Rivanna Reservoir (SRR) to RMR Pipeline is being planned in the interest of improved operational and cost efficiencies and emergency redundancy. An integrated pump station would also include the capacity to transfer up to 16 mgd of raw water from RMR back to the SRR WTP.

• South Rivanna Reservoir to Ragged Mountain Reservoir Pipeline, Intake and Facilities

Design Engineer: Kimley Horn
Project Start: July 2023

Design Status: 3%

Construction Start:

Completion:

Current Project Estimate:

June 2026

December 2030

\$79,700,000

Current Status:

RWSA continues to work with CSX railroad on the draft permit documents. Topographic survey for the pipeline alignment has been completed, and survey of the remaining project locations is underway. Staff are working on the final phases of the SFRR-RMR Nutrient Analysis, with the necessary equipment needed to complete study efforts scheduled to arrive in the Fall, and a final report published in the Winter. The SFRR Intake and Pump Station Project will require closure of the public boat ramp at the site once construction begins.

History:

The approved 50-year Community Water Supply Plan includes the construction of a new raw water pipeline from the South Rivanna River to the Ragged Mountain Reservoir. This new pipeline will replace the Upper Sugar Hollow Pipeline along an alternative alignment to increase raw water transfer capacity in the Urban Water System. The project includes

AGENDA ITEM EXECUTIVE SUMMARY

a detailed routing study and water line design to account for recent and proposed development and road projects in Albemarle County and the University of Virginia. Preliminary design, preparation of easement documents, and acquisition of water line easements along the approved route is also being completed as part of this project that will lead to final design of the raw water line, reservoir intake and pump station.

• Beaver Creek Dam, Pump Station, and Piping Improvements

Design Engineer: Schnabel Engineering (Dam)
Design Engineer: Hazen and Sawyer (Pump Station)

Project Start: February 2018

Project Status: Work Authorization Development

Construction Start:

Completion:

Budget:

November 2025

January 2029

\$43,000,000

Current Status:

A Joint Permit Application and supporting documents were submitted to VDEQ. Remaining NRCS requirements, including review and approval of the planning study, have been completed. The revised Plan Environmental Assessment was approved by the NRCS. NRCS funding for the final design and dam spillway upgrades will be requested at a future date. A report is under review by NRCS. Final design work is expected to start this month.

The final design work has been approved for the new raw water pump station, intake and hypolimnetic oxygenation system.

History:

RWSA operates the Beaver Creek dam and reservoir as the sole raw water supply for the Crozet area. In 2011, an analysis of the Dam Breach inundation areas and changes to Virginia Department of Conservation and Recreation (DCR) *Impounding Structures Regulations* prompted a change in hazard classification of the dam from significant to high hazard. This change in hazard classification requires that the capacity of the spillway be increased, and the dam be replaced. This CIP project includes investigation, preliminary design, public outreach, permitting, easement acquisition, final design, and construction of the anticipated modifications. Work for this project includes a new relocated raw water pump station and intake. RWSA staff will continue to pursue federal funding for later phases of the project to cover a portion (70%) of final design and construction costs.

AGENDA ITEM EXECUTIVE SUMMARY

• South Fork Rivanna River Crossing

Design Engineer: Michael Baker International (Baker)

Project Start: November 2020
Project Status: 90% Design
Construction Start: May 2024

Completion: September 2024

Budget: \$7,000,000

Current Status:

Easement acquisition has begun and includes County of Albemarle property in Brook Hill River Park along Rio Mills Road. A required easement on the south side of the river is on a remnant property from the VDOT Berkmar Bridge project and cannot finalize that easement until the property transfer back to the original owner is complete. Additional permitting being sought for the project.

History:

RWSA has previously identified through master planning that a 24-inch water main will be needed from the South Rivanna Water Treatment Plant (SRWTP) to Hollymead Town Center to meet future water demands. Two segments of this water main were constructed as part of the VDOT Rt. 29 Solutions projects, including approximately 10,000 LF of 24-inch water main along Rt. 29 and 600 LF of 24-inch water main along the new Berkmar Drive Extension, behind the Kohl's department store. To complete the connection between the SRWTP and the new 24-inch water main in Rt. 29, there is a need to construct a new river crossing at the South Fork Rivanna River. Acquisition of right-of-way will be required at the river crossing.

• Upper Schenks Branch Interceptor, Phase II

Design Engineer: Frazier Engineering, P.A.

Project Start:

Project Status:

Construction Start:

Completion:

July 2021

Design

TBD

TBD

Current Project Estimate: \$4,725,000

Current Status

After a recent meeting with City and County staff, RWSA has submitted project summary information and an easement on County property with a valuation estimate for the County's review. Initial meetings with County staff are occurring.

AGENDA ITEM EXECUTIVE SUMMARY

• Central Water Line Project

Design Engineer: Michael Baker International (Baker)

Project Start:
Project Start:
Ully 2021
45% Design
Construction Start:
December 2024
Completion:
Budget:
Ully 2021
45% Design
December 2028
541,000,000

Current Status:

Detailed field investigation and design are underway, as well as adjacent utility coordination. Next steps include conducting soil borings along the alignment and beginning easement acquisition. The construction start has been extended 6-9 months due to pipe delivery slowdowns.

History:

The hydraulic connectivity in the Urban System is less than desired, creating operational challenges and reduced system flexibility and redundancy. Recent efforts and modeling for the Urban Finished Water Infrastructure Master Plan have determined that a central water line corridor through the City is the best option to hydraulically connect the Observatory Water Treatment Plant to the Urban service area.

ACSA Board Future Policy Issues Agendas 2023-2024 Dec. '23 Jan. '24 Feb. '24 Mar. '24 April '24 May '24 Jui

Oct. '23	Nov. '23	Dec. '23	Jan. '24	Feb. '24	Mar. '24	April '24	May '24	June '24	Pending Issues
October 19th Recognitions	November 16th Recognitions	December 21st Recognitions	January 18th Recognitions	February 15th Recognitions	March 15th Recognitions	April 18th Recognitions	May 16th Recognitions	June 20th Recognitions	Water Supply Plan Project Status Reports Water Treatment Plants
Monthly Financial and CIP Reports		Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	
Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Annual Water Quality Reports (May)
,	Annual Financial Report and Audit Report	Annual Investment Report		Operational Presentation - Administration	Operational Presentation - Engineering	Operational Presentation - Maintenance	Operational Presentation - IT Presentation - Finance	Board Organizational Meeting each Janua	
·					3 3				Annual Report - January
(CX) Vision Statement (Customer Focused Transformations)	Policy Level Documents (Resolutions, By- Laws, etc.) on ACSA Roles and Responsibilities	Budget Guidelines and Schedule for FY '25 Budget/Rates		AMI Project Status Report	Proposed CIP Presentation	Program (CIP) Presentation	Proposed FY '25 Budget and Rates Workshop	FY '25 Budget and Rates Public Hearing	Water Audit and Energy Audit
Customer Information System (CIS) Billing (website;		Holiday Schedule 2024	Annual Report 2023 - Customer Experience; Employee of the Month; Projects, etc.		"Fix a Leak" Water Conservation Event	Proposed FY '25 Capital Improvements Program (CIP) Public Hearing		FY '25 Budget, Rates and CIP Approval	Strategic Plan Updates-2023-2027 January and July
phone)									Fats, Oils, and Grease (FOG) Program
Miles Leves Detirement		Decad Manting	A			Danie 1 EV 105		Assessments to Dute a	Climate Change and Sustainability
Mike Lynn Retirement Recognition		Board Meeting Schedule 2024	Annual Water Conservation Report			Proposed FY '25 Budget and Rates Overview		Amendments to Rules and Regulations, and Personnel Management Plan (Budget Implementation)	Annual Water Conservation Report - January
									Operational Presentation-Sewer Rehab Relining
						Resolution Scheduling Budget and Rates Public Hearing for June 20, 2024		Water Professionals Appreciation Day Recognition	National Drinking Water Week-April Imagine a Day Without Water - Septemb
						National Drinking Water Week Resolution		Water Quality Update - Annual Drinking Water Quality Report	Lead and Copper; PFAS; Emerging
									Emergency Preparedness - Regional Exercise
									Annual Investments Report December
									Operational Presentations
									ACSA Customer Communications
									Avon Satellite Operations Center
									Federal Infrastructure Grant Funds
									Data Management and Management Dashboards
	Executive Session - Executive Director Mid-Year Review				Executive Session - Executive Director Annual Performance Review				Purchasing Policy Revisions
					1.0000				9/21/202

AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Advanced Metering Infrastructure (AMI) Monthly Update

STAFF CONTACT/PREPARER: Quin Lunsford, Director of Finance

AGENDA DATE: September 21, 2023

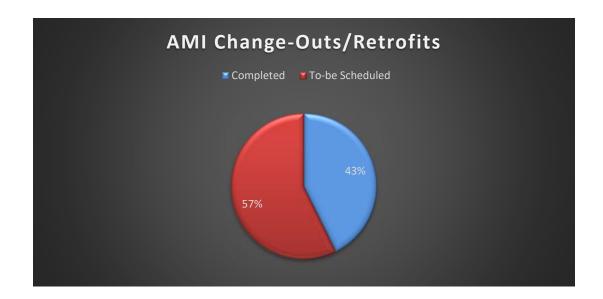
ACTION: Informational

ATTACHMENTS: No

BACKGROUND: The ACSA Board authorized staff at its October 2019 meeting to execute agreements related to the AMI project. Monthly status updates are provided below:

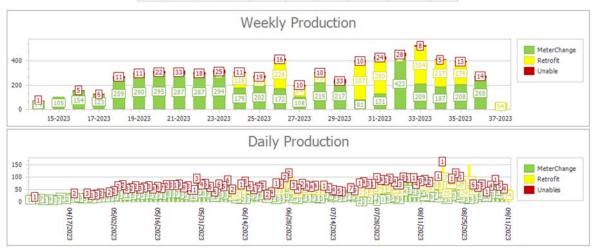
DISCUSSION: Authority staff continues to collaborate closely with the selected vendor (Core & Main/Sensus) and the project management consultant (Esource). Notable accomplishments since the last update include:

- The final phase of the AMI began April 3rd and our installers have successfully upgraded 6,600+ meters. Approximately 43% of the ACSA's system is fully operational under the AMI program. Going forward, we anticipate between 65 and 100 meter upgrades each day.
- The second graphic below illustrates daily and weekly progress.



AGENDA ITEM EXECUTIVE SUMMARY

Albemarle County VA Reading Rate Good No Read Bad Read Stale Unable Read Rate 6604 6571 11 18 99.50 Remove RTU Install INC Sked Unable Type Size 2802 23 MeterChange 3/4-inch 4574 0 MeterChange 1 1/2-inch 0 0 0 0 MeterChange 1-inch 195 60 0 3 9 0 Retrofit 3/4-inch 1889 10137 0 0 1 4 Retrofit 1-inch 22 303



BUDGET IMPACT: Informational only.

RECOMMENDATIONS: None

BOARD ACTION REQUESTED: None; informational item only.

ATTACHMENTS: N/A



Envirosight Jetscan 2.0 Camera

Universal Fit Provides Flexibility



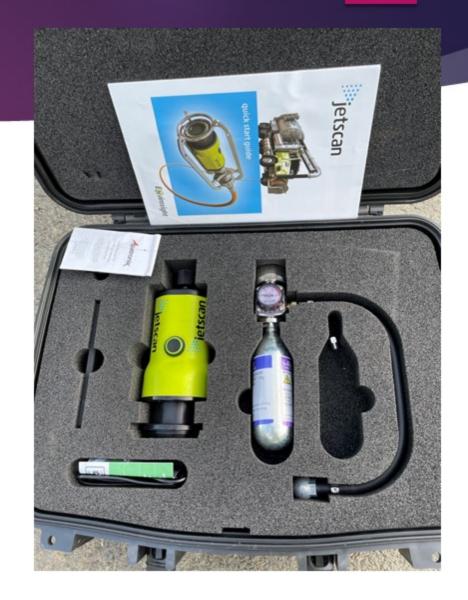


Unit 31 Flush Truck

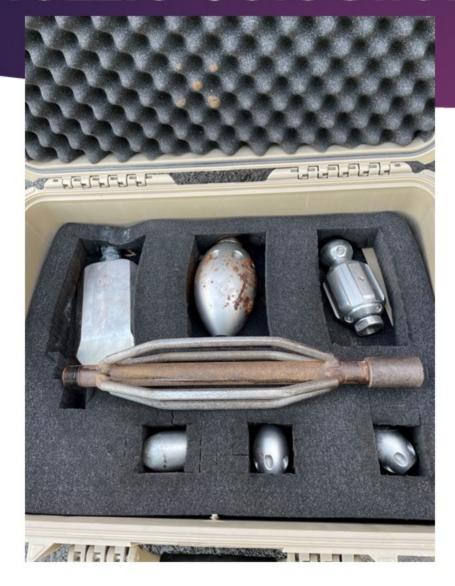
Unit 32 Flush Truck

Cleaning Confirmation



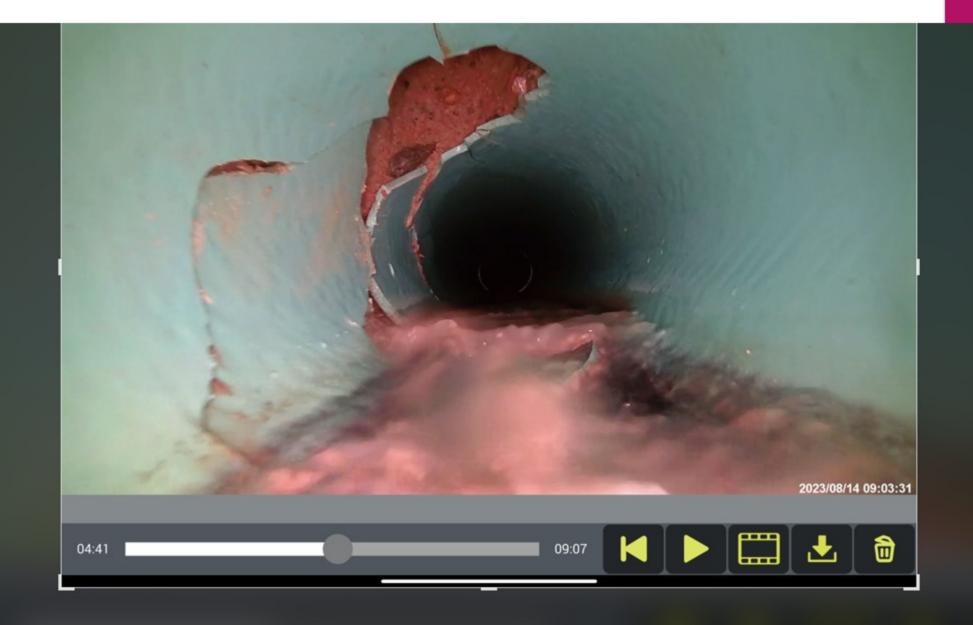


Nozzle Selection











Commonwealth Drive – Utility Line Cable Run Through ACSA Sewer Line



Commonwealth Drive – Utility Line Cable Run Through ACSA Sewer Line







Unit 39

Jetscan 2.0 saves time and use of more costly alternatives

Questions?



AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Imagine a Day

Without Water

STAFF CONTACT(S)/PREPARER:

Emily Roach, Human Resources &

Administration Manager

AGENDA DATE: September 21, 2023

ACTION: Yes

ATTACHMENTS: Yes

BACKGROUND: For many, living a day without water is not something to be imagined, but rather an unfortunate reality. The Imagine a Day Without Water campaign, which will take place on October 19th this year, is a National Day of Action that brings together communities and stakeholders from all over to highlight how invaluable and essential this precious resource is, and the need for continuous investment in infrastructure.

This year, as part of the ninth annual celebration, the ACSA, RWSA, and City of Charlottesville will once again host their annual "Imagine a Day Without Water" student art contest. This year, students are being asked to convey the theme "Tell us you action to save water!" The contest will be open to all youth in grades K-12 living in the City of Charlottesville and/or Albemarle County. There will be gift card prizes awarded to the winners of each grade category (K-2, 3-4, 5-6, 7-8, and 9-12), as well as a "fan favorite" selected by the community.

BOARD ACTION REQUESTED: Approve the attached resolution proclaiming October 19, 2023, as "Imagine a Day Without Water".

ATTACHMENTS: Imagine a Day Without Water Flyer & Art Contest Entry Form Imagine a Day Without Water Resolution

Imasine a Day without Water

Open to:
All Youth that live in the
City of Charlottesville
& Albemarle County in
Grades K to 12th.

Theme: "Tell us Your Action to Save Water"

Water is essential for life. You need water for everything from brushing your teeth, growing the food you eat, and making the things you use everyday. We must value water, so show us the actions you take to save water.

OCT 16TH - NOV 13TH

Contest Rules

All entries must convey the theme of the contest:

"Tell us Your Action to Save Water"

- Entries must be the work of one individual student, no collaborations.
- Multiple entries from the same student will be accepted.
- Original artwork or photography only. Entries submitted with copyrighted characters or images will not be accepted.
- Artwork can be any 2-dimensional size. Suggestion sizes are horizontal 11" x 8.5" for drawings and 4:3 ratio for photography.
- Any medium may be used (paint, colored pencils, crayons, markers, photography, etc.) No 3-D entries, please.
- Teachers may submit for students or students can submit independently through their parents.
- Submission Options:
 - Submit digitally through our Art Contest Platform Upload Form (accepts: JPEG/JPG, PNG, or GIF images).
 - Mail your entry to Water Conservation, 305 4th Street NW, Charlottesville, VA 22903.
 - In person at JMRL Central, Northside, and Crozet branches.
 Check JMRL.org for hours of service.



101

FOT the Students: \$200 gift card

One winner in each category

- Grades K-2
- Grades 3-4
- Grades 5-6
- Grades 7-8
- Grades 9-12
- Fan Favorite (voting Nov 27th Dec 6th)

(X) For the Teacher:

Teachers that have their students participate with be eligible for **\$200** gift card for classroom projects.

- Most classroom submissions
- A random winner each from a CCS, ACPS, and a private school or organization
 The more students that participate will increase the odds of winning!







Official Entry Form



2023 Charlottesville "Imagine a Day without Water" Art Contest: Tell us Your Action to Save Water

Name:		Age:				
School:		Grade:				
	Category: Grades: K-2 Grades: 3-4 Grades: 5-6					
(Please check one)	Grades: 7-8 ☐ Grades: 9-12 ☐					
Teacher Sponsor N	ame (if applicable):					
Home Phone Numb	er: ()					
E-mail Address:		(Parent/Teacher signature)				
If you are submitting in	person or through mail, you must com	pletely fill this out to be a valid entry.				
Please write legibly! E	<u>lectronic submissions will fill this out</u>	as part of your digital submission.				
Posters become the property	of the contest sponsors (City of Charle	ottesville ACSA and RWSA) and will not				

returned. The contest sponsors have the right to display or otherwise use the submissions for future promotions

Deadline for all poster entries is Monday, Nov. 13th, 2023! Please attach this form to the back of your poster!

- Winners will be recognized through a press release and their work will be exhibited in public venues.
- A panel of judges (to be selected by the contest sponsors) will select the winning posters for each grade division.
- Posters will be judged on message (keep in mind the theme), originality, creativity and overall presentation.
- Posters must be submitted by November 13th using one of the official submission processes by the end of business day.
- The Fan Favorite winner will be selected by online voting from the top entries (number based on entries). The link with the eligible entries will be available at www.charlottesville.gov/artcontest starting on November 27th through December 6th.
- One student may not win both the fan favorite and judges pick, and if the student is chosen for both, the fan favorite runner-up will win the Fan Favorite prize.
- The winners of all categories will be announced by December 13th, 2023.

For updates and full list of rules and contest information, please go to our website. www.charlottesville.gov/artcontest.

Submit Online:

www.charlottesville.gov/artcontest. **Submit by Mail:**

Water Conservation, 305 4th Street NW, Charlottesville, VA 22903.

Submit in Person:

At JMRL Central, Northside, and Crozet branches. Check JMRL.org for hours of service.

QUESTIONS?

Contact: Jill Greiner

Water Efficiency Program Coordinator 434-970-3877

waterconservation@charlottesville.gov

Important: Each poster mailed or delivered in person *MUST* have the official entry form attached to the back. All information must be filled in completely and legibly. Illegible and incomplete entries will be disqualified. Please print or type ALL information. Entry forms may be copied if needed.

RESOLUTION PROCLAIMING IMAGINE A DAY WITHOUT WATER OCTOBER 19, 2023

WHEREAS, water infrastructure is the lifeline of our communities and a day without water would be a public health and safety crisis, limiting the abilities of safety personnel such as firefighters and hospital staff, as well as businesses and homes, to function; and

WHEREAS, America's water infrastructure is aging and failing—and an estimated two million Americans are living without access to adequate drinking water and sanitation, with Black, Indigenous, and Communities of Color, as well as low-income communities, more likely to experience this lack of water and sanitation than white or affluent communities; and

WHEREAS we can help secure a better future for the millions of Americans who don't have reliable water service today and, in the generations, to come;

NOW, THEREFORE, BE IT RESOLVED that the Albemarle County Service Authority Board of Directors hereby proclaims October 19, 2023, as "Imagine a Day Without Water" to help Albemarle County residents and Albemarle County Service Authority customers recognize the value of safe, clean water to not only our community but to the quality of life, public safety, and economic health worldwide.

Certified to be a true copy of a Resolution adopted by the Albemarle County Service Authority Board of Directors at a regularly scheduled meeting on September 21, 2023, by a vote of ___ to ___.

AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Operational

Presentation – Role of the Construction

Inspector

STAFF CONTACT(S)/PREPARER:

Jeremy M. Lynn, P.E., Director of

Engineering

AGENDA DATE: September 21, 2023

ACTION: | INFORMATION:

ATTACHMENTS: YES

BACKGROUND: The ACSA's *General Water and Sewer Construction Specifications* cover general conditions, technical specifications, and details for water and sewer utilities that are to be incorporated into the ACSA's water distribution and wastewater collection systems. The role of the Construction Inspector is to ensure that contractors adhere to these specifications. Our Construction Inspectors are involved throughout the life of a project, from project kick-off prior to construction until final inspection and project close-out.

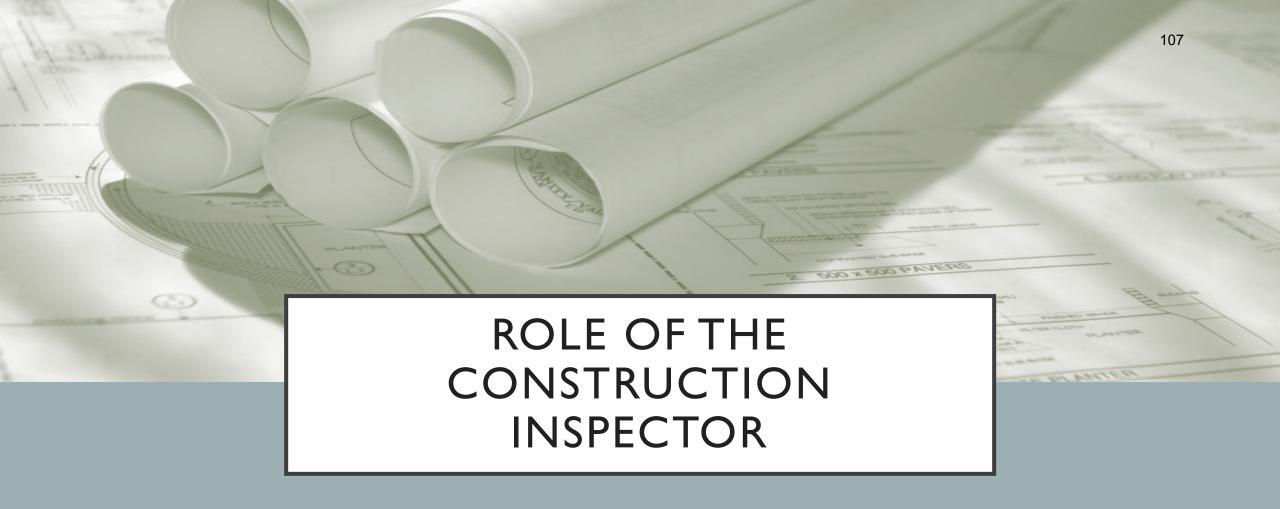
DISCUSSION: A short presentation has been prepared to introduce the Board to our current group of experienced Construction Inspectors and provide an overview of their typical responsibilities.

BUDGET IMPACT: Informational only.

RECOMMENDATIONS: None

BOARD ACTION REQUESTED: None; informational item only.

ATTACHMENTS: PowerPoint presentation – Role of the Construction Inspector





Board of Directors Meeting September 21, 2023

MEET OUR INSPECTORS

David Hensley

Maintenance: 1980-1989

Alb. County Zoning:1989-1994

Inspector: 1994-current

<u>Jeff Herr</u>

Maintenance: Started in 1991

 Served as Meter Reader and as Utility Location Technician

Inspector: 2008-current

Charles DaCosta

Maintenance: Started in 2001

Served as Utility Location Technician

• Inspector: 2023-current







<u>Jay Thomas</u>

Maintenance:1997-2003

Served as Hydrant/Valve Mechanic

• Inspector: 2003-current



Maintenance: 1997-2008

Served as Construction Crew Leader

Inspector: 2008-current





Inspector Team Experience

<u>I45</u> Years of Experience with ACSA

<u>80</u> Years of Experience as Inspectors

RESPONSIBILITIES PRIOR TO CONSTRUCTION

- Plans approved by Project Engineer and assigned to Construction Inspector.
- Approved construction drawings are provided to Construction Inspector for review and to become familiar with prior to Preconstruction Conference.
- Preconstruction Conference held with the contractor to answer questions and to discuss any specific issues, problems, or changes.
- ACSA's Utility Inspection Policy is discussed, and Construction Start Date is established.

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INITIAL PROJECT START-UP RESPONSIBILITIES

- Become familiar with the layout of the project.
- Review materials to ensure compliance with Approved Products List.
- Verify equipment is onsite to adequately complete the work.
- Locate and mark existing ACSA utilities.

CONSTRUCTION RESPONSIBILITIES

Water	Sewer
Verify Hydrants Set Plumb	Manhole Elevations
Adequate Thrust Blocks	Alignment and Grade of Sewer Lines
Verify meter boxes are at the edge of the right-of-way	Ensure Adequate Bedding

Review and Verify Trenching

Verify construction stays within prescribed easements

Take field notes on certain details of construction











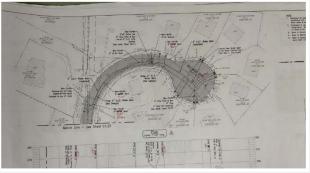
VARIOUS WATER INSTALLATION PHOTOS



VARIOUS SEWER INSTALLATION PHOTOS

- Make certain work is conducted as specified on plans and meets the ACSA Construction Specifications.
- Work with the contractor regarding problems in the field (conflicts with other utilities, grades, rock, etc.).
- Incorporate changes that were not a part of the original plans.
- Utilize GPS equipment to locate all fittings, bends, valves, meters, manholes, and hydrants.
- Testing of water lines (i.e., water chlorination, hydrostatic pressure and samples for bacteriological test, high velocity flushing). Vacuum testing of sewer manholes, and air test of sewer mains.

IN THE FIELD DECISIONS & RESPONSIBILITIES

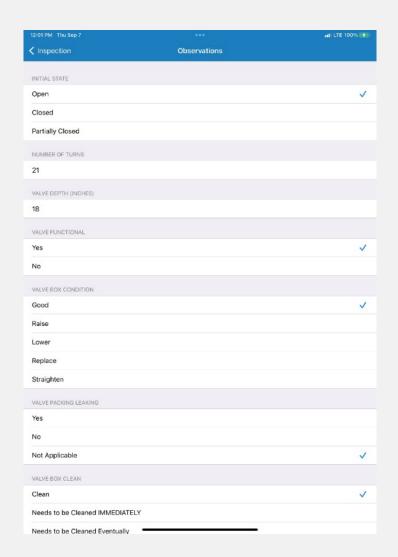


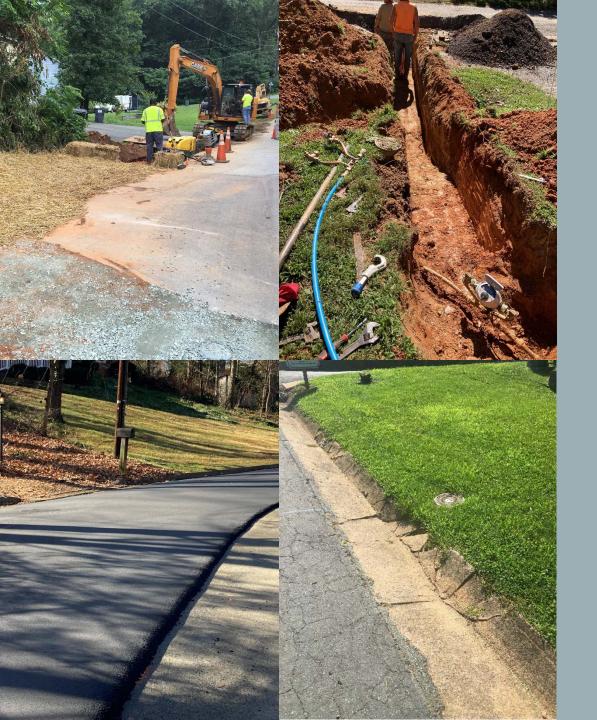




PROJECT CLOSE-OUT

- Includes final inspection, review and approval of as-built plans, and verification punch list items are complete.
- Completion of Cityworks Valve and Hydrant Inspections.
- Turn project back over to the Project Engineer to complete necessary Dedication paperwork.
- Within one year of acceptance, re-inspect the jobsite prior to the warranty expiration.





DEVELOPER VS. CIP PROJECTS

Additional responsibilities include:

- Assigned to project full-time (depending on size and scope of project).
- Communications with Property and Business
 Owners affected by the project.
- Maintain inventory of materials being installed and on-site.
- Verification of Contractor Pay Requests.
- Locate and mark existing ACSA utilities.
- More hands-on involvement (i.e., assuring property is restored to original or improved condition, assuring planned water shutdowns are completed satisfactorily).



"LIFE IS LIKE A BOX OF CHOCOLATES, YOU NEVER KNOW WHAT YOU'RE GONNA GET"

FORREST GUMP'S MOMMA

AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Strategic Plan

Update

STAFF CONTACT(S)/PREPARER:

Gary O'Connell, Executive Director

AGENDA DATE: September 21, 2023

ACTION: Yes

ATTACHMENTS: Yes

BACKGROUND AND DISCUSSION: The Board approved at the March meeting a new Strategic Plan with four themes: Data Optimization, Business Resilience (amended from Business "Continuity" at the April meeting), Customer Experience and Employee Experience.

Attached is an update on the "status" in each of the theme areas. Several larger projects are progressing, including being nearly halfway in the AMI meter installations (old Strategic Plan). One of the new initiatives in the Customer Experience theme is a new Customer Information System (CIS) that will include a new billing platform, as well as a new website and phone system. We are interviewing for a third-party consulting group to assist us in the needs assessment/feasibility phase to help craft the software and needed business process to be successful. We completed in Data Optimization the firewall replacement to improve IT systems, security, and have started the Data Classification Project that is the first step towards a Document Management System.

In reviewing our Strategic Plan "Playbook" that organizes our plan actions in more detail, and in looking at the upcoming schedule including current work activities and projects, we believe it to be a more realistic, doable plan if we extend the timeframe by two more years. So we are proposing Board approval of a 2023-2027 timeframe for the ACSA Strategic Plan. More typically these types of plans are in a five-year timeframe, and that more realistically fits us given all that is ahead to be accomplished.

BOARD ACTION REQUESTED: Approval of the proposed change to the 2023-2027 timeframe for the Strategic Plan.

ATTACHMENTS:

-Strategic Plan as proposed to be amended to 2023-2027, plus updates;

2023 -through2027 THE ALBEMARLE COORT STRATEGIC FIVE-YEAR PLAN





Data Optimization

Conduct a comprehensive review of all data and their sources to ensure proper access, classification, and utilization.

COMPREHENSIVE REVIEW OF SYSTEMS

Conduct a thorough data mapping and analysis of all existing software and integrations to determine opportunities for improved efficiency.

DOCUMENT MANAGEMENT SYSTEM

Perform classification of data to ensure proper management, and the procurement and implementation of a new Document Management System.

SYSTEM MONITORING AND REPORTING

Review, maintain, and secure the data that we collect and share with users through dashboards or other reporting methods.



Business Resilience

Ensure the current and future operations continue to function to serve our customers and meet environmental and climate action goals.

BUSINESS CONTINUITY PLANNING

Develop a Business Continuity plan to ensure the continual operations during unplanned events.

ENVIRONMENTAL SUSTAINABILITY

Enhance environmentally friendly practices and policies to reduce our carbon footprint and support global efforts to combat climate change.

OPTIMIZATION OF RESOURCES

Perform an audit of current space, assess staffing levels, and explore opportunities to leverage consulting services in support of



Customer Experience

Provide best-in-class service ensuring the needs of our customers are exceeded.

CUSTOMER EXPERIENCE VISION

Perform a comprehensive analysis of services and interactions as experienced through the eves of our customers.

CUSTOMER INFORMATION SYSTEMS (CIS)

Develop a modern and integrated CIS platform that provides clear, concise information to customers.

CUSTOMER ENGAGEMENT OPPORTUNITIES

Enhance customer outreach to include community events, new customer orientations, and other important information through a variety of communication tools.



Employee Experience

Retain and recruit a highly-skilled workforce and provide employees with resources and opportunities for professional growth.

RECRUITMENT AND RETENTION

Explore strategies to ensure that we are attracting highly qualified candidates and ensure our workforce remains motivated and satisfied.

EMPLOYEE ENGAGEMENT OPPORTUNITIES

Perform a comprehensive analysis of current practices and create new opportunities to ensure the ACSA is a great place to work.

TRAINING AND EDUCATION PROGRAM

Review current learning opportunities to ensure quality, cost-effective training that increases employee and organizational productivity and enrichment.

STRATEGIC FIVE-YEAR PLAN





Data Optimization

Conduct a comprehensive review of all data and their sources to ensure proper access, classification, and utilization.

COMPREHENSIVE REVIEW OF SYSTEMS

Conduct a thorough data mapping and analysis of all existing software and integrations to determine opportunities for improved efficiency.

STATUS

- Started a list of mapping
- RFP for feasibility study of ESRI Utility Network
- Cityworks Respond deployment underway
- SCADA Phase 3 underway
- ESRI Utility Network Project Kickoff scheduled the week of September 11th

SUCCESS RESULT

• All data collected is mapped. Additional efficiencies are identified and scheduled with each software application.



DOCUMENT MANAGEMENT SYSTEM

Perform classification of data to ensure proper management, and the procurement and implementation of a new Document Management System.

STATUS

- Records Management Policy is under review (Library of
- Develop data "Classifications" to develop RFP for a **Document Management System**

SUCCESS RESULT

• Data is classified and properly maintained, all documents are digitized and stored in a secured Document Management System.



SYSTEM MONITORING AND REPORTING

Review, maintain, and secure the data that we collect and share with users through dashboards or other reporting methods.

STATUS

- Data classification first step with mapping (see above)
- New firewall replacement completed
- In the midst of replacing SCADA and phone system
- In the midst of scheduling two separate security assessments; one data focused and one physical focused
- Hired an IT Technician to monitor ACSA security more thoroughly

SUCCESS RESULT

• All data is properly managed and secured and dashboards are utilized across the organization.



STRATEGIC FIVE-YEAR PLAN





Business Resilience

Ensure the current and future operations continue to function to serve our customers and meet environmental and climate action goals.

BUSINESS CONTINUITY PLANNING

Develop a Business Continuity plan to ensure the continual operations during unexpected events.

STATUS

- IT has revised and tested their Disaster Recovery
- Reviewing checklist in ERP
- Regional exercise held
- First-Come-First-Served policy approved

SUCCESS RESULT

 Completion of a Business Continuity Plan document.



ENVIRONMENTAL SUSTAINABILITY

Enhance environmentally friendly practices and policies to reduce our carbon footprint and support global efforts to combat climate change.

STATUS

- First electrical vehicle ordered for Engineering
- Working on vehicle charging stations at Spotnap
- Coordinating Urban Water Audit with the City and RWSA
- IT is implementing environmental friendly devices
- Facilities updating LED lighting at facilities
- Replacing the hot water heater as an Energy Audit recommendation

SUCCESS RESULT

• Progress toward maximizing positive environmental practices.



OPTIMIZATION OF RESOURCES

Perform an audit of current space, assess staffing levels, and explore opportunities to leverage consulting services in support of staff.

STATUS

- Minutes transcription service implemented
- Role restructuring in Administration, Engineering and IT, with IT doubling up on offices
- Utilization of Applicant Pro

SUCCESS RESULT

 Current space, staffing levels and evaluation of consultant usage are fully evaluated and recommendations documented.



3

STRATEGIC FIVE-YEAR PLAN





Customer Experience

Provide best-in-class service ensuring the needs of our customers are exceeded.

CUSTOMER EXPERIENCE (CX) VISION

Perform a comprehensive analysis of services and interactions as experienced through the eyes of our customers.

STATUS

- Consolidation of various private development fees (plan review, construction inspection, as-built review)
- Customer Experience Vision Workshop held September 13th

SUCCESS RESULT

 The customer experience vision is defined and enhancements are prioritized; follow-up on the CX Project recommendations.



CUSTOMER INFORMATION SYSTEMS (CIS)

Develop a modern and integrated CIS platform that provides clear, concise information to customers.

STATUS

- Proposals under review for CIS system, one year longfeasibility study
- Hydrant meter usage- readings streamlined to be submitted through the website
- Planned outage map on website

SUCCESS RESULT

- Implementation of a CIS solution that meets the needs of customers through a stable, streamlined, and integrated platform.
- AMI Portal complete for customer on-line usage information.



CUSTOMER ENGAGEMENT OPPORTUNITIES

Enhance customer outreach to include community events, new customer orientations, and other important information through a variety of communication tools.

STATUS

- Hiring process for Communications firm from three proposers communications and education
- Two customer newsletters sent out.
- Rain Barrel Workshop, Riverfest Event
- Imagine a Day Without Water fall scheduling

SUCCESS RESULT

 Pertinent information is provided to customers in their preferred manner.



3

STRATEGIC FIVE-YEAR PLAN





Employee Experience

Retain and recruit a highly-skilled workforce and provide employees with resources and opportunities for professional growth.

RECRUITMENT AND RETENTION

Explore strategies to ensure that we are attracting highly qualified candidates and ensure our workforce remains motivated and satisfied.

STATUS

- · Market Rate Increase approved
- Vacation Carryover Policy approved
- Faster background checks new system

SUCCESS RESULT

Implement recruitment and retention strategies.



EMPLOYEE ENGAGEMENT OPPORTUNITIES

Perform a comprehensive analysis of current practices and create new opportunities to ensure the ACSA is a great place to work.

STATUS

- Reward Builder Program
- Evaluation Process and Timing Reviewed
- Post-Accident Testing Draft Review
- Employee of the Month Recognitions begun

SUCCESS RESULT

• Implement employee engagement strategies.



TRAINING AND EDUCATION PROGRAM

Review current learning opportunities to ensure quality, cost-effective training that increases employee and organizational productivity and enrichment.

STATUS

- Supervisory Training(s)
- CDL Training
- Emergentics Training multiple sessions held, including all supervisors
- Fall Leadership Development Workshop

SUCCESS RESULT

 Employees are properly trained and have equal opportunities to pursue advanced education and training programs.



3