



Connections

Spring 2022

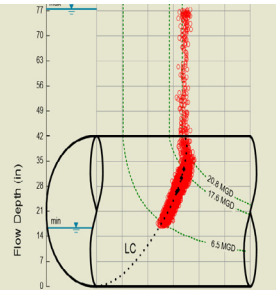


Earth Month 2022

Public Education and Outreach highlights the ways
Public Works celebrates Earth Day every day



PEO: Engaging Our
Community



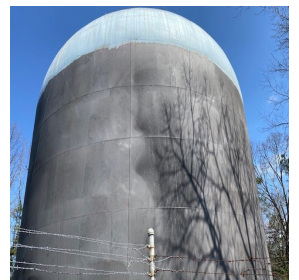
Technical Services:
Flow Monitoring
Network



Executive Airport
Construction
Update



Big Creek WRF
Expansion Project
Update



Public Works Leaders
Think Tanks



Executive Airport Construction Update

The Airport Administration Offices are now under construction. The contract was awarded to Trident Construction Group of Atlanta. This is Phase II of a three phase project that will transform the currently closed Aircraft-Rescue and Fire Fighting (ARFF) Station into a combination of administration offices and a new ARFF Station. This phase will feature offices for the airport manager, assistant managers, administration coordinator, filing and planning room, copy/printing room, conference/training room, and a lobby with an observation deck overlooking the airfield. It is expected to be complete November 2022.

Welcome New Employees!	
Amber Sandifer - Water Quality Supervisor	
Marcus Sampson - Utility Locate Technician	
Sharlene Armstrong - Administrative Coordinator II	
Jeffery Martin - Maintenance Worker, Senior	
Gary Williams - Heavy Equipment Operator (Rehire)	
Promotions	
Beverly Simmons - Administrative Coordinator I	
Congratulations Retirees!	
Maureen Hill	
Kelvin Frazier	

Public Works By the Numbers January - March 2022		
Water Resources	22.86 MGD	Total Potable Water Distributed (average day)
	8.82%	Non-Revenue Water (annualized)
	31	Small Meters Replaced
	53.66 MGD	Total Wastewater Treated (average day)
	27.74 Acres	Sewer Easement Cleared
	1.33 MG	Reuse Water Provided (JCEC)
	15.1 MG	Reuse Water Provided (Little River)
	385	Water and Sewer Service Applications Processed
	1	Sewer Overflows >10,000 gallons (major spill)
	14	Sewer Overflows <10,000 gallons (minor spill)
Airport Services	3,725	People Reached by PEO Staff
	12.6%	Increase in aircraft operations from 2021
FID Transportation Operations	19,325	Aircraft Operations YTD
	136	Facility Signs Fabricated
Development Permits	5 Tons	Litter Picked Up
	23	Utility Plans Approved
	104	Utility Projects Under Construction
	11	Utility Projects Completed/Accepted



A Message from the Director

David E. Clark, P.E.

Happy spring and Earth Day of 2022.

Since it is spring, that means Public Works Week is close at hand. Please be sure to participate in all of the events that happen during the week – not just the training session and field day on Thursday. This is always a highlight of the year and it only happens with the help of all of the staff. So please do what you can to help Corlette and her team in these final weeks leading up to May 16th!

By now most of the staff have had the benefit of the 7% Cost of Living Adjustment (COLA) that went into effect in January and then the Incremental Compensation Strategy (ICS) adjustments in March for those that have served Fulton County for many years. The next pay adjustment will be occurring throughout 2022 as part of the Key Classification Study that Human Resources is now implementing. As part of the Key Classification Study, Human Resources is looking at all of the position titles in Fulton County and determining if the pay grade is consistent with the market conditions. As part of Phase 1, several of Public Works job titles were reviewed and have received pay adjustments. Over the next few months, additional Public Works job titles will be reviewed and adjusted as necessary. I can't guarantee what the review will result in, but I am very optimistic that many of you will benefit from the reviews.

Finally, the small unincorporated area north of I-20 along Fulton Industrial Boulevard will remain unincorporated for the foreseeable future. Therefore Public Works staff will continue providing transportation, stormwater, planning, zoning, and building permit services to this area. There may be times when I will be asking for help to provide these services, I know that Public Works staff will also step up when asked. So thank you for that.

See you all during the week of May 16th and Public Works Week.

Congratulations!

The Public Works employees below were recognized at the February 7, 2022 Service Awards.

Barbara Wilson	15 Years
Garfield Cook	20 Years
Douglas Russell	20 Years
Nicholas Blythe	25 Years
Maureen Hill	25 Years
Abul Howlader	25 Years
Jerry Jones	25 Years
Brent Wheeler	25 Years

GAWP 2022 Spring Awards

Public Works brought home multiple award recognitions on April 12, 2022 during the GAWP Spring Conference in Dalton, GA. Public Education and Outreach received both Education Program of Excellence in Water and Wastewater as well as the Public Education-New Media awards for a Facebook Live tour of the Tom Lowe Atlanta-Fulton County Water Treatment Plant.



Big Creek WRF, Johns Creek Environmental Campus (JCEC) WRF, Camp Creek WRF, Little Bear WRF, and Little River WRF received a Wastewater Facility Platinum Award. Public Works also received Platinum awards for the JCEC and Little River Land Application Systems (LAS).



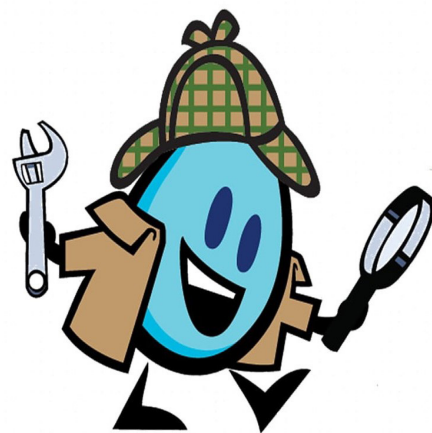
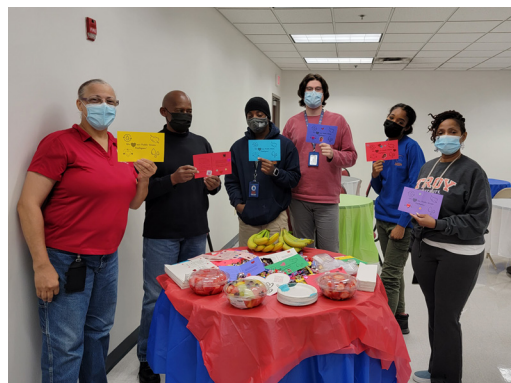
PEO: Engaging Our Community

Now that we are able to get back out into the community with face-to-face programming, the Public Education and Outreach (PEO) team has been hard at work getting our citizens engaged with their water and wastewater systems. In the week leading up to Valentine's Day, the PEO team hosted three valentine-making pop-up stations across the county for citizens to decorate and write cards showing their appreciation for our hard-working water and wastewater professionals. Cards were delivered to employees at the Customer Service Center at Maxwell Road and the South Fulton Maintenance and Operations Center on Valentine's Day.

The following month, the water conservation team was back out in the community celebrating EPA WaterSense Fix a Leak Week from March 14th-20th. Through demonstration tables and two

virtual workshops, citizens were able to receive information about finding and fixing leaks in their homes, as well as free materials such as leak detection dye tablets and high efficiency showerheads to help them conserve. The team also participated in the 10th annual Water Drop Dash 5K race and festival, in partnership with the Metropolitan North Georgia Water Planning District and other local utilities, educating hundreds of runners and their families about home water conservation and leak detection.

We look forward to continuing to engage with our community in the coming month with Drinking Water Week May 1st-7th and Public Works Week May 15th-21st, as well as throughout the year at festivals, workshops, tours, libraries, senior centers, and schools.



Flow Monitoring Network

Through a contract with ADS Environmental Services, managed by the Technical Services team, Fulton County Public Works is provided monthly field services, data collection and processing of flow monitoring data, and access to a cloud-based software called PRISM. With this service we are able to monitor interjurisdictional flows from surrounding municipalities and constituencies, and flows within the whole sanitary sewer system. The measured field data help us minimize sanitary sewer overflows, identify inflow and infiltration into our sewer system, and identify problematic areas of the sanitary sewer network that require rehabilitation.

The flow monitoring program network currently has 226 ADS Triton+ sanitary sewer flow monitors, 31 Echo level reading devices, and 26 Rain Alert III Tipping Bucket rain gauges. These sites are calibrated on a quarterly basis and have preventive maintenance performed on a quarterly and as needed basis, as well. This maintenance helps to minimize debris accumulation and condensation within the sensors, which can inhibit the accuracy of the readings.

In addition, the PRISM software provides a high level alarm that could indicate surcharge conditions and sensor drift that could be due to an increase or decrease in capacity or a blockage downstream. Surcharge conditions occur when a downstream restriction makes the wastewater back-up into the manhole where the flow monitor is located as indicated by a level increase and a decrease in velocity. See Fig. 1. Sensor drift as shown in Fig. 2 occurs when the flow monitor readings fluctuate higher or lower for some time. To minimize the effects of the fluctuations, the raw data is attuned.

The data provided by the flow monitoring network through ADS Environmental provide valuable information that allows Public Works to take a proactive approach to sewer system maintenance and overflow prevention.

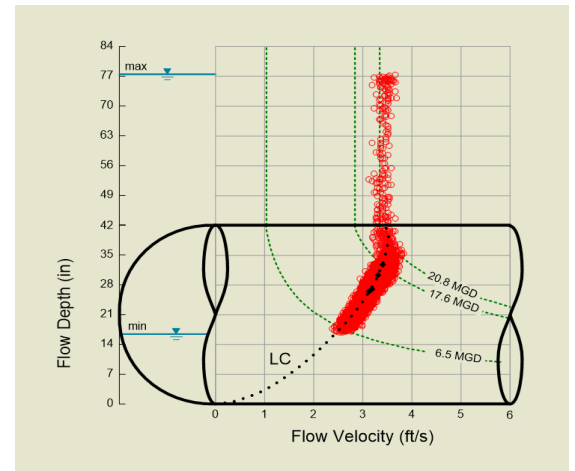


Figure 1

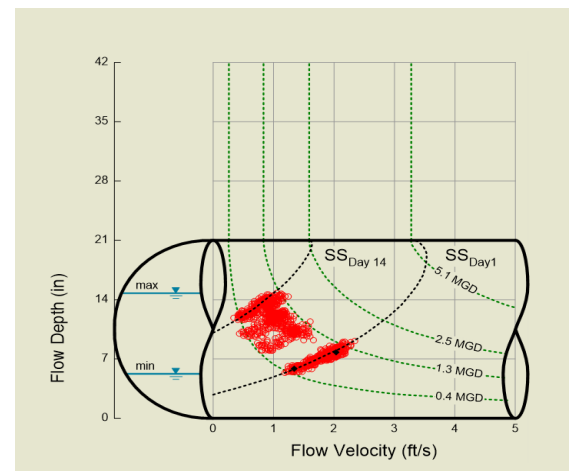


Figure 2

2022 Recycled Art Contest Winners



This spring, PEO held our first Recycled Art Contest, for K-12 students in Fulton County. This mixed-media contest's goal was to bring awareness to a challenging environmental issue: litter. To highlight the litter problem in our communities, and to encourage environmental stewardship, participants were asked to submit original artwork by using recycled items.

Congratulations to our First Place Winner, Navarakshana Thirupathiraja, from Creek View Elementary! Her creative mixed media artwork, *Nurture Nature, Do Not Litter*, beautifully highlights the importance of protecting our water resources. Our second and third place winners are Inaaya Sudheer of Findley Oaks Elementary and Saanvi Baja of Woodland Elementary Charter School both displayed works of art that were equally impressive. Although an in-person reception was not held, the artwork will be displayed in the departmental display case located on Pryor Street of the Government Center.

Free Facility Tours for Public Works Week

In commemoration of National Public Works Week, Fulton County Public Works is welcoming the return of facility tours of our water and wastewater treatment facilities. Scheduled for Tuesday, May 17th Fulton County residents will have an opportunity to tour one of the following water treatment facilities: Tom Lowe Atlanta-Fulton County Water Treatment Plant, Johns Creek Environmental Campus, and Camp Creek Water Reclamation Facility (WRF). Tours will take place at each facility at 10:00 am and 1:00 pm, and will provide our residents the opportunity to better understand how water and wastewater employees work together to keep our drinking water and wastewater clean. Each participant is required to register by completing the short registration form provided here: <https://forms.gle/3kexDYFLD5RWtNB5A>

For more information, please contact either Kelli L. Edwards Kelli.Edwards@fultoncountyga.gov or Sidney Ward Sidney.Ward@fultoncountyga.gov.





Public Works Week Facility Tours

In commemoration of National Public Works Week, we are inviting you to tour one of our award winning facilities! Tours are approximately 1.5 hours and are appropriate for adults and students beginning at 3rd grade. **Closed-toe shoes are required for each tour.**

Tuesday, May 17, 2022
10:00 AM or 1:00 PM




Drinking Water Facility
Tom Lowe Atlanta-Fulton County Water Treatment Plant
9750 Spruill Road Johns Creek, GA 30022

Wastewater Facilities
Johns Creek Environmental Campus
8100 Holcomb Bridge Road Alpharetta, GA 30022

Camp Creek Water Reclamation Facility
7520 Cochran Road Atlanta, GA 30349

Questions?
Kelli L. Edwards
Kelli.Edwards@fultoncountyga.gov

Sidney Ward
Sidney.Ward@fultoncountyga.gov




Register for one of our tours by clicking the link provided here:
<https://forms.gle/3kexDYFLD5RWtNB5A>

Getting to know: Gerald Pace

Deputy Director Water Administration



What is your previous work experience that brings you to our Public Works team?

Experience in managing teams with multiple public service organizations as a Chief Financial Officer including public school systems and the Wisconsin state department.

Experience in managing teams with multiple public service organizations as a Chief Financial Officer including public school systems and the Wisconsin state department.

What are some of your goals for Fulton County's Water Distribution System?

Provide the highest level of customer service to both internal and external customers. This is achieved through timely procurements of goods and services for internal customers and payments to external vendors. A second goal is to ensure that the Administration team is equipped with best practices to perform their duties through professional development within their respective areas of responsibility.

What are some of your favorite hobbies or interests outside of work?

Travel, going to plays and concerts

Celebrate Earth Day, Everyday

Earth Day, celebrated annually on April 22nd, is an international holiday dedicated to providing education about our global environment and ways to protect our resources. Instead of celebrating just on April 22nd, the PEO team celebrates Earth Day, for the entire month of April with a host of public programs and workshops.

Friday, April 1st the PEO team conducted the first Water Day at the Teaching Museum since the beginning of the COVID-19 pandemic. Students were eager to learn about watersheds, the water cycle, and how wastewater is treated as part of the urban water cycle.

On the following week, the PEO team facilitated an Adopt-A-Stream workshop at the Autrey Mill Nature Preserve. Although the weather on April 9th was chilly, 9 program participants were enthusiastic about learning how to protect our waterways through water quality monitoring. These certified volunteers are now a part of the vast network of citizen scientists, committed to protecting our rivers, creeks, and streams.

In addition to our school programs and community workshops, the PEO team facilitated on-site,

community displays, in which we discussed watershed protection, quality and conversation. As part of that display, residents were encouraged to participate in making their own planting pods, comprised of native seeds and soil mixture.

We rounded out Earth Day celebrations with our annual spring paper shredding event on Saturday, April 23rd. Hosted in partnership with the Greater South Fulton Chamber of Commerce, 172 vehicles showed up for our drive-and-drop shredding event. In total, 14,000 lbs of paper were securely

shredded and disposed of, just in time for spring cleaning!

Public Works, remains dedicated to protecting our environmental resources through quality education and impactful programs. The programs highlighted above are but a few examples of our innovative programming, designed to inspire ordinary citizens to become environmental stewards. Earth Day is not just one day, but it is woven into the fabric of who we are. Together, let's celebrate Earth Day, 365.





April 2020



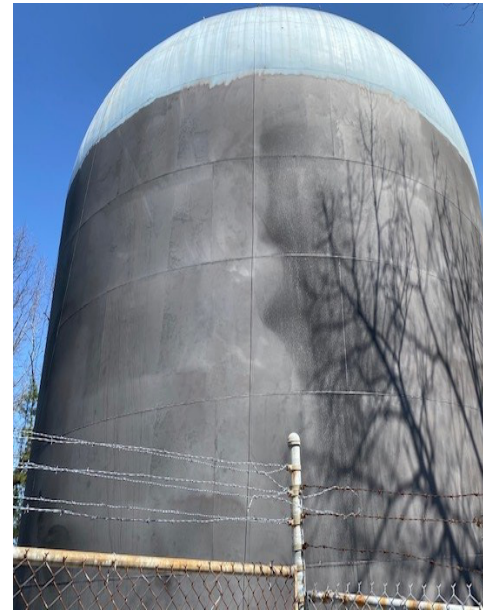
April 2022

Big Creek WRF Expansion Project Update

Construction continues on the Big Creek Water Reclamation Facility (WRF) expansion. In the 2nd Quarter we will be starting up the new Dewatering Building and Screw Press Building. In a major design effort with our neighbors concern in mind, we are utilizing the most advanced odor removal system available for these buildings and eventually the whole plant. We anticipate having a ribbon cutting ceremony for the Dewatering Building and the Screw Press Building in June 2022.

The new treatment process, incorporates state-of-the-art membrane technology, which will produce significantly cleaner water than the existing plant. Public Works has looked into possible cost savings by directly securing the membranes from Kubota Membrane USA Corporation and providing them to the contractor to install. We also used a Design Build approach to work with Georgia Power and Ravenvolt to obtain standby generators for this project to act as a safeguard if power ever fails. To assist with the construction management and approvals of material submittals we have hired Gresham Smith to assist us. Due to the increase in power necessary for this expansion, we are working with Georgia Power to increase the size of our existing substation. We worked closely with the adjoining citizens, the City of Roswell permitting department and the Georgia Environmental Protection Division to secure our permits. We are using Integrated Documentation Services – Multivista, to provide us photographic and video documentation of training and start up on each of the pieces of equipment. To secure our site we are using GC&E System Group, LLC to provide us with security and phones for this site.

Big Creek Water Reclamation Facility is located in Roswell, Georgia and its existing capacity is 24 Million Gallons per Day (MGD). This project is a Progressive Design Build model with a Joint Venture Contractor Archer Western and their design engineer Brown & Caldwell. This facility is expanding to 32 MGD with the future capability to be expanded to 38 MGD. Even at a higher flow rate, nutrient discharge to the Chattahoochee River will be reduced by up to 50 percent from current permit limits. By expanding this facility, we will be using new construction for 85% of the project and will either demolish the existing structures or repurpose them in this new facility. Construction to date we have recycled existing site materials and eliminated up to 10,000 truckloads of landfill disposal. Upon completion this project is complete it will be recognized as one of the most advanced wastewater systems in the Southeastern United States.



Public Works Leaders Think Tanks

The Department of Public Works maintain and operate ten (10) water storage tanks strategically located within North Fulton. These tanks have been in service for less than 15 years to over 40 years. Water tanks are vital part of the water distribution system. The main purpose of a water storage tank is to provide a sufficient amount of water to average or equalize the daily demands of the water supply system. It also helps maintain adequate pressures throughout the entire system meeting the needs for fire protection, industrial uses and reserve storage. Because they are properly operated and maintained, these tanks are still in service today.

As part of its continued effort to keep these tanks in good condition, in early 2015, Public Works engaged the services of an engineering consultant to perform an assessment study for needed rehabilitation. Recommendations were made for each tank including the schedule of implementation. The first batch of tanks rehabilitated were the Bethany East (2.0 MG) and Bethany West (2.0 MG), both located in the City of Alpharetta. The work was started on December 2016 and successfully completed in July 2017. Early this year, Public Works kicked off the rehabilitation work for the Alpharetta Tank No. 1 (1.0 MG) and Alpharetta Tank Mo. 2 (0.5 MG). The work is currently 25 percent complete and progressing as scheduled. The work is anticipated to be completed in October 2022.

Next in the pipeline, is the Jones Bridge Road Tanks No. 1 & 2, with a capacity of 1.0 MG and 0.50 MG respectively. The contractor to perform the work has been selected and approved by the Fulton County Board of Commissioners. It is anticipated that the Notice to Proceed for construction will be issued in May 2022.

Rehabilitation work for the remainder of the tanks will be undertaken based on a priority system as recommended and the availability of funds. Through the collaborative effort between the Technical Services Division and the Water System Maintenance Division, and of course with the leadership of the Director, the goal is to provide efficient services to our water customers through proper maintenance of our facilities is within reach.



Public Works Week 2022

Fulton County Public Works will celebrate this event May 15-21, 2022. This year's theme, "Ready and Resilient" acknowledges various roles that public works professionals serve every day. They are always **Ready** to serve their communities, and **Resilient** in their abilities to overcome challenges as they arise.

Monday - May 16th

- Public Works Week Kick Off
 - Video Contest

Tuesday - May 17th

- 10:00 AM and 1:00 PM - Free Facility Tours
 - Tom Lowe Atlanta-Fulton County Water Treatment Plant
 - 9750 Spruill Road Johns Creek, GA 30022
 - Johns Creek Environmental Campus
 - 8100 Holcomb Bridge Road, Alpharetta, GA 30022
 - Camp Creek Water Reclamation Facility
 - 7520 Cochran Road Atlanta, GA 30349

Wednesday - May 18th

- 10:00 AM - Board of Commissioners Proclamation
- 9:00 AM - 1:00 PM - Exhibit: Pryor Street Atrium

Thursday - May 19th

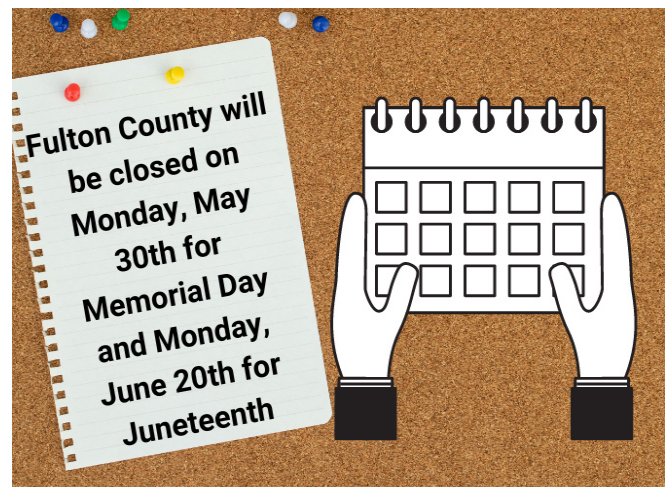
- 8:00 AM - 3:00 PM - Public Works Employee Training & Equipment Challenge
 - 3900 Aviation Circle NW, Atlanta GA 30336

Friday - May 20th

- 8:30 AM - Employee-led Service Project



**FULTON
COUNTY**
**PUBLIC
WORKS**



Fulton County Board of Commissioners

Chairman Robb Pitts
(At-Large) 404-612-8200

Vice-Chair Liz Hausmann
(District 1) 404-612-8213

Commissioner Bob Ellis
(District 2) 404-612-8216

Commissioner Lee Morris
(District 3) 404-612-9800

Commissioner Natalie Hall
(District 4) 404-612-8226

Commissioner Marvin S. Arrington Jr.
(District 5) 404-613-0202

Commissioner Kadijah Abdur-Rahman
(District 6) 404-612-8222

Questions?

Contact Corlette Banks at Corlette.Banks@fultoncountyga.gov or
Cherylyn Griffin at Cherylyn.Griffin@fultoncountyga.gov