



Clayton County Water Authority's Stormwater Utility (SWU) is proud to share these highlights from May 2022 – April 2023.

The SWU's Engineering Technician and Maintenance Crews work as a team to provide quality service when it comes to responding to customer calls. On average, a customer complaint was responded to within fourteen (14) hours. When a customer calls with a stormwater issue, our Stormwater Engineering Technician is dispatched to check out every issue or complaint. During Fiscal Year 2022-23, he responded to over 940 customer related calls.

Part of the maintenance activity includes an aggressive inspection program. This helps our staff determine potential problem locations, as well as being compliant with our Stormwater Permit. Using both internal staff and outside contractors, CCWA inspected the following structures over the past year:

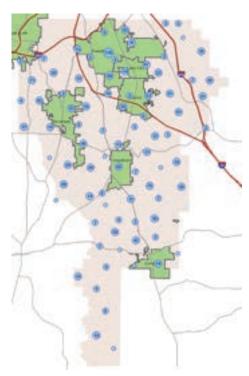
- Approximately 3,808 catch basin and inlets
- Approximately 275,831 linear feet (52.2 miles) of storm drains
- Approximately 114,790 linear feet (14.2 miles) of ditches

The Stormwater Maintenance staff of 18 employees (2 pipe repair crews, 1 grading crew and 1 vacuum truck crew) addressed 1,827 work orders. Activities from these completed work orders represent:

- Approximately 45,120 linear feet (8.6 miles) of storm drain lines
- Approximately 28,685 linear feet (5.4 miles) of graded ditches
- Approximately 500 cleaned/repaired catch basins

Maintenance costs for this work completed between May 2022 and April 2023 were roughly \$3.0 million. In addition to the maintenance work orders, CCWA solicited the help of outside construction firms to perform larger-scaled Capital Improvement Projects (CIP). These projects include repair methods of "Remove and Replace" (R/R), as well as a newer technology called "Cured-In-Place Piping" (CIPP).

Using both methods, CCWA performed 103 large-scaled CIP's throughout the county last year. The 63 R/R and 40 CIPP jobs resulted in costs slightly under \$4.1 million. Combined, approximately 14,110 feet (2.67 miles) of pipe were replaced/renewed using these methods.



Map shows areas work was completed May 2022 – April 2023

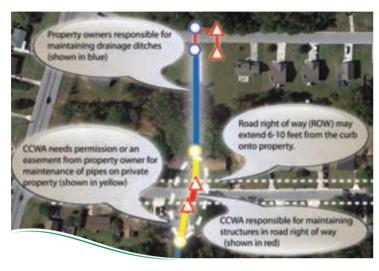
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Your Stormwater Dollars At Work

The Clayton County Water Authority's Stormwater Utility (SWU) is responsible for stormwater management activities for unincorporated Clayton County and the cities of Forest Park, Jonesboro, Lake City, Lovejoy, Morrow and Riverdale.

These activities include Construction Plan Reviews and Inspections, Floodplain Management, Illicit Discharge/Illegal Connection Inspections and maintenance of stormwater infrastructure within the road right-of-way.

This annual report is produced to show a summary of the activities that have been performed by Clayton County Water Authority's Stormwater Utility over the past year and how your Stormwater dollars are being used.





Stormwater Pollution Solutions

- Never dump anything down storm drains or into streams and report anyone who does.
- Apply lawn chemicals according to the label. Do not over apply chemicals and never apply before a rain event.
- Keep grass clippings and other yard waste out of street gutters and storm drains. Drains blocked by excessive debris could cause flooding. Compost or mulch instead.
- Dispose of used motor oil, paint, and other household chemicals properly or bring them to our annual Household Hazardous Waste Collection Day in April.
- Do not dispose of used cooking oil by dumping it outside or in a storm drain.
- Don't litter. Put trash in its place.
- Take your car to a commercial car wash facility. Washing cars on driveways or streets will result in the cleaning products flowing directly into storm drains.
- Pick up your pet's waste. Pet waste can carry harmful bacteria and parasites.



Stormwater Utility Services include:

- Maintenance, repair and replacement of stormwater infrastructure within the road right-of-way.
- Floodplain management
- Construction plan reviews and inspections
- Illicit discharge/illegal connection inspections
- Public education/public involvement
- Watershed improvement activities

Responsibilities of property owners and local jurisdictions:

- Remove debris from ditches or yards
- Maintain drainage ditches on private property
- Maintain or clean curb and gutter
- Clean or mow roadside ditches



Flood Protection

CCWA may be able to provide some guidance regarding your flooding issues should you request a site visit. Some common types of advice may include the following:

- Demolish the building or relocate it out of harm's way
- Elevate the building above flood level
- Elevate damage-prone components, such as the furnace or air conditioning unit
- Dry floodproof the building so water cannot get into it
- Wet floodproof portions of the building so water won't cause damage
- Construct a berm or redirect drainage away from the building
- Maintain nearby streams, ditches, and storm drains so debris does not obstruct them.
- Correct sewer backup problems

To request a site visit, please contact CCWA Floodplain Management at 770.302.1768 or email **ccwa_floodplain@ccwa.us.**



Do you know your property's Floodplain status?

Flood insurance rate maps (FIRM's), also known as Floodplain Maps, went into effect on June 2017 for properties located in Clayton County. After years of extensive studies and analysis, CCWA revised the County's Floodplain Maps, as guided by FEMA. The County's maps were digitally updated in 2007, but several other factors required additional field studies and desktop engineering to bring the maps up to date.

These updated maps are more precise than older maps because better flood hazard and risk data has been incorporated, and the latest science has been used to make them more accurate. Flood risks change over time due to construction, development, environmental changes, floodplain widening or shifting, and other factors. These changes send water flowing in new directions, creating flood risks that didn't exist previously—precisely why flood maps must be updated periodically.

The updated maps give staff a better understanding of local risk assessment, floodplain management, land use and emergency planning.

To determine your floodplain status, you may visit the Georgia Flood Map Program site at www.georgiadfirm.com. On that page, first you will need to check the box to "agree to the terms and conditions" to enter the website. Then, you will type your street address, city, state and zip code into the search bar where it states, "type your address here...". Then, select the 'Find' button, and you will be directed to useful floodplain information available for your property, such as the flood zone located on your property, the Base Flood Elevation (or BFE), whether or not your home is located in a floodway, what official FEMA flood panel map your property could be found on, etc.

Please note, your Floodplain status is determined on whether the floodplain boundary touches your property. Your home, or important structure, may be elevated such that the lowest floor may be higher than the BFE. These maps may not provide you information on your particular structure. It may be necessary for the property owner to have an elevation certificate prepared, at their costs. Elevation certificates must be prepared by a Registered Land Surveyor or Professional Engineer. CCWA does not provide this service for property owners. Costs for the preparation of an elevation certificate ranges from \$500 to \$1,500. It is up to the property owner to procure these services.

If you have a mortgage on your property, the lender may require a Flood Insurance policy if your property is within the boundaries of a floodplain. An elevation certificate may assist in reducing the cost of a flood insurance policy, if it can be determined the structure, in question, is elevated to where flooding risks are minimized. In some cases, the flood insurance policy may not be needed.

If you need additional assistance, please contact CCWA's Floodplain Division at **ccwa_floodplain@ccwa.us** or at 770.302.1768.



The Clayton County Water Authority's (CCWA) Stormwater Utility is required by the County's Stormwater Permit to inspect 20% of stormwater infrastructure (pipes, catch basins, ditches) on an annual basis. While performing inspections along Southlake Parkway, the CCWA team identified a dual creek culvert system in need of replacement.

Dual 66' runs of 96" diameter corrugated metal pipes were identified under Flat Shoals Road, near Yellowood Court in the northwest part of Clayton County. The culverts, which convey a tributary to Camp Creek, exhibited corrosion and joint separation. With Flat Shoals Road being a major thoroughfare, CCWA felt it would be best to replace these culverts.

Due to the shallow coverage of the original pipe, CCWA explored the use of a pre-cast arch culvert system. This allowed the culvert to have more clearance between the bottom of the roadway and the top of the culvert. Our team also extended the culvert to provide additional safety for motorists and pedestrians travelling along Flat Shoals Road. The new arched culvert measures 14' wide



and 5' high.

This work required a planned closure of Flat Shoals Road. This re-routed traffic for a period of 8 weeks. Closing the road, at the work area, was vital for the safety of not only our workers but also the public. The excavation was roughly 15' deep and 30' wide. Large concrete structures were brought in and had to be unloaded with a crane.

Benchmark Management, LLC was the Design Engineer and Construction Manager on this project. The Corbett Group was the Contractor performing the work. Due to the cost of this project, CCWA applied for a loan through the Georgia Environmental Finance Authority (GEFA) through their Clean Water State Revolving Fund.

This project was part of other culvert replacement activities performed by The Corbett Group. The approximate cost of this location was roughly \$950,000. A single 88' run of this pre-cast concrete arched culvert was installed.







Behind the Tap Spotlight: Stormwater Maintenance & Installation Supervisor Mike Newton

Meet Stormwater Maintenance & Installation Supervisor Mike Newton. Mike oversees two repair crews of four employees for the proper installation, replacement, and repair of stormwater pipes and catch basins. He also ensures all work meets CCWA, state, and federal standards. Mike works with county agencies on the replacement/installation of stormwater lines during roadway construction and oversees contractors performing maintenance activities on stormwater infrastructure. He also handles customer issues related to stormwater problems and complaints.

Mike celebrated 15 years of service in November. He has been an integral part of our Stormwater Utility's success as it grew from its early stages. He is respected for his character and work ethic. He is the kind of supervisor crews are proud to work with.



What Mike enjoys most about his job is working with his crews and co-workers to brainstorm problems, issues and complaints when they occur.

"I know that we can make a difference in the community by solving their issues and seeing a smile on the customer's face when work from a complaint is finished," adds Mike.

His challenges include getting called out on an emergency in the middle of the night, not knowing what you are facing until you reach the job site and when heavy rain events cause flooding at a catch basin. "It can be hard to find the manhole to unclog it. You also never know whether there is a large sinkhole lurking underneath."





2023 Rivers Alive Stream Cleanup **Tentative Date - Saturday, October 21** Location - T.B.D 10 a.m. - Noon

CCWA's Stormwater staff works throughout the year to educate residents about the damage stormwater pollution does to our local waterways and how they can prevent this pollution from making its way into our drinking water. This event gets residents involved in preserving and protecting our local waterways.

Community volunteers join CCWA volunteers at our annual stream cleanup event as we remove trash, litter and debris from one of our local streams or creeks. We will provide t-shirts, bags and gloves. This is a great volunteer opportunity for scouts, civic groups, church groups, environmental clubs and families.

We are currently determining our next clean up location. Check our website (ccwa.us) and follow our Facebook page (@ClaytonCountyWater) for updates.



Connecting With Our Community

Career Day Events

Stormwater staff participates in numerous Career Day events at Clayton County Public Schools. Through these events, staff connects with thousands of students to educate them about the damaging effects of stormwater pollution and what they can do to protect our water quality.

Educational Programs - We're Project WET Certified!

Several of our CCWA Ambassadors have received the training to become Project WET certified. Project WET uses an action-oriented approach to provide education on the value of water. Our Stormwater Ambassadors will develop programs with an urban watershed focus. We'd love to create a program that aligns with the Georgia Standards of Excellence & fits your student's needs! To request our participation at your school, please contact us at CCWA_CommunityRelations@ccwa.us



Flood Map Service

CCWA Floodplain Management staff is available to explain information to you regarding your property such as the base flood elevation, flood zone, FIRM panel, additional FIRM data, flood insurance information, and whether there are any wetlands on your property. To discuss your property's floodplain status with CCWA floodplain management staff, contact ccwa_floodplain@ccwa.us or at 770.302.1768.



Thank You for Turning in More than 75,000 lbs. of Household Hazardous Waste During Spring **Collection Day**

CCWA's Stormwater Utility hosts Household Hazardous Waste Collection Day every Spring to give residents the chance to dispose of a variety of household items, such as used paints, oil, pesticides, cleaners, batteries and chemicals.

CCWA contracted with MXI Environmental to collect and properly dispose of the waste during this free, four-hour event on Saturday, April 22, 2023 at the W.B. Casey Water Resource Recovery Facility in Jonesboro.

MXI serviced 402 vehicles and processed over 74,900 lbs. of waste. The event costs nearly \$45,000 (the cost for the contractor collecting and properly disposing of the items) and goes a long way to keeping these pollutants out of our local creeks, streams and landfill.

Thank you to all Clayton County residents and CCWA Ambassadors who helped make the 2023 event a success!





Report Illegal Dumping Into Stormwater Infrastructure

It is important to keep our stormwater infrastructure, streams and creeks free of harmful items that wind up in our drinking water reservoirs. This includes used motor oils, paints, pesticides, chemicals, litter, trash and even grass clippings.

Many people believe that everything in a storm drain goes through a treatment process just like wastewater. However, Clayton County's storm water infrastructure is not tied in to our sanitary sewer system. So, everything that makes its way into a storm drain, stream or creek winds up in our raw water reservoirs.

If you see someone dumping anything into one of Clayton County's storm drains, streams or creeks, please notify the Water Authority contacting our Call Center at 770.960.5200. If you see someone in a vehicle dumping, any information you can provide (tag number, company name, etc.) is helpful.

Looking for a Speaker? Call Us

If you would like a Stormwater staff member to speak to your civic group or HOA, please call 770.960.6972.

Quality Water, Quality Service

1600 Battle Creek Road, Morrow, GA 30260

Find Us on You Tube: Clayton County Water Authority

CCWA has a You Tube channel that features educational videos on:

■Preventing stormwater pollution

■Finding and fixing leaks ■Proper disposal of fats, oils and greases

■and other topics

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