

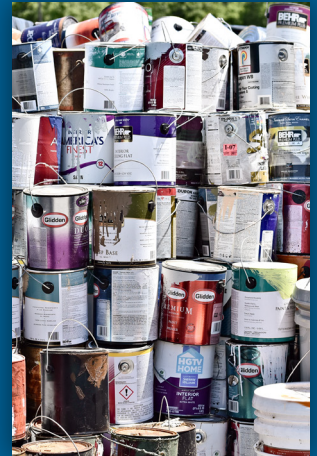
Household Hazardous Waste Collection Day Saturday, September 26

Join us for our annual Household Hazardous Waste Collection Day. The event will be held Saturday, September 26 from 10 a.m. to 2 p.m. at our W.B. Casey Water Resource Recovery Facility (enter off Roberts Road). This event provides Clayton County residents with a safe and effective way to properly dispose of items such as paints, cleaners, motor oil, pesticides, light bulbs, batteries, fertilizer, antifreeze and cooking oil.

Please note, pharmaceuticals (prescription or over the counter) will not be accepted this year. We also do not accept landscaping (tree cuttings, limbs, leaves), furnishing (couches, chairs, tables), electronics (televisions, stereo equipment, phones) and household trash.

Residents need to provide proof of Clayton County residency and remain in their vehicles during the event. CCWA's contractor will unload all items. We ask that residents place items to be unloaded in the trunk of their vehicle, bed of their truck, or on a trailer.

This event is usually held in April. Due to the COVID-19 Shelter in Place during the month of April, it was rescheduled. For updates on this event, visit www.ccwa.us or follow us on Facebook @ClaytonCountyWater.

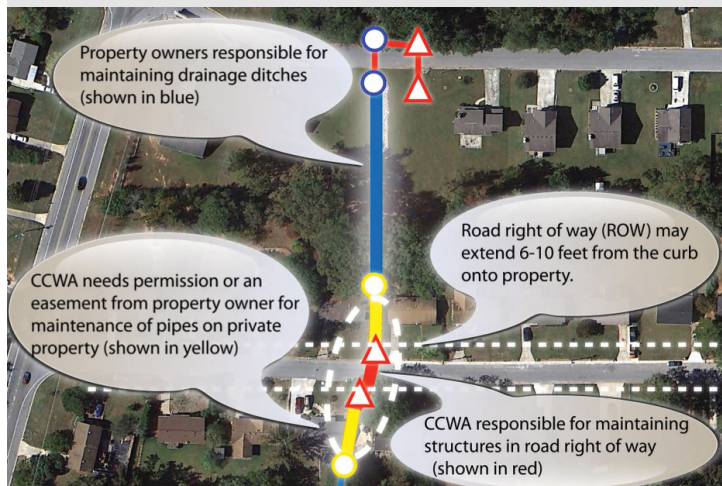


Your Stormwater Dollars At Work

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.



This diagram shows the level of service provided by CCWA's Stormwater Utility. Everything shaded in yellow is maintained by the utility.



Stormwater Staff Continues Providing Necessary Services During Pandemic

Even during a pandemic like COVID-19, CCWA has a critical public health responsibility to provide water, sewer and stormwater services to our community. Just like law enforcement and the health care industry have a responsibility to provide their services.

Continuous access to safe, clean drinking water, reliable sanitary sewer and stormwater systems are our priority. Stormwater staff continued responding to emergencies during Georgia's Shelter in Place. As that was lifted, they resumed working using adjusted schedules to promote social distancing and other measures to help prevent the spread of the virus and ensure their safety.

One example of their dedication came in the spring. CCWA Stormwater staff received a call about a contractor damaging a storm drain line while they were repairing another utility. Our Stormwater Investigation Technician and Stormwater Maintenance; Installation Foreman responded to the call and repaired the damaged storm drain while the other contractor waited for us to complete our work.



Stormwater Maintenance Crews Completed Nearly 1,860 Work Orders During FY 2019-20

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 twenty (20) 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 2019-20, he responded to over 1039 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:

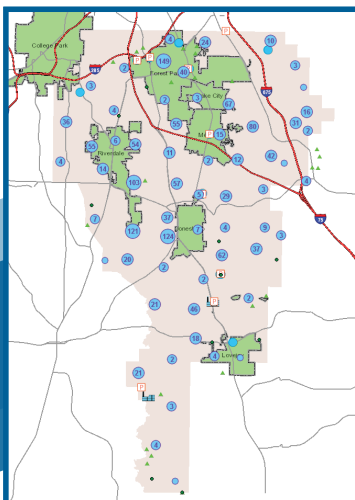
- Approximately 2,900 catch basin and inlets
- Approximately 257,000 linear feet (48.7 miles) of storm drains
- Approximately 125,000 linear feet (23.7 miles) of ditches

The Stormwater Maintenance staff of 17 employees (2 pipe repair crews, 1 grading crew and 1 vacuum truck crew) addressed 1,857 work orders. Activities from these completed work orders represent:

- Approximately 39,000 linear feet (5.5 miles) of storm drain lines
- Approximately 8,628 linear feet (1.6 miles) of graded ditches
- Approximately 565 cleaned/repaired catch basins

Maintenance costs for this work completed between May 2019 and April 2020 were nearly \$2.9 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 92 large scaled CIP's throughout the county last year. The 71 R/R and 21 CIPP jobs resulted in costs slightly over \$4.7 million. Combined, approximately 15,811 feet (2.99 miles) of pipe were replaced/renewed using these methods.



Stormwater Utility Services include:

- Maintenance, repair and replacement of stormwater infrastructure within the road right-of-way, and directly connected to the 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



Top 3 Constituent Concerns

What are Stormwater Utility fees used for?

Stormwater utility fees are dedicated exclusively to stormwater management activities

Who is responsible for neighborhood detention and retention pond maintenance?

The Homeowners Association or the developer are typically responsible. For unfinished subdivision ponds, the developer or the bank holding the lots is responsible

Who is responsible for overflowing stormwater pipes or inlets?

Overflows from stormwater facilities within or directly connected to the right-of-way are the responsibility of the Stormwater Utility. All other overflows are the responsibility of the property owner or another jurisdiction.



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.

To determine your floodplain status, you may visit CCWA's Floodplain Management at <http://www.ccwa.us/floodplain-mapping>. On that page, you will find information about Floodplain Management. Click the link that follows the text, "To check the status of your property in Clayton County". From there, take the following steps:

1. Enter your information on the disclaimer form and "Accept" to continue.
2. You will be taken to an internal Floodplain Mapping page where you will begin your search.
3. Click "Begin Search".
4. Enter your address number and street name. Click "Run Search"
5. Your personalized floodplain map will appear.

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



Failing Creek Culvert Replaced Under Main Thoroughfare Thornton Boulevard - Jonesboro | Approx. \$415,000

When CCWA's Stormwater Utility was created, it inherited hundreds of miles of underground infrastructure without knowing if it was in good shape or ready to fail. As part of our asset management approach, we concentrate on large diameter stormwater pipes and culverts that run under roadways. Many of these pipes were installed years ago using corrugated metal pipe with active streams or creeks flowing through them.

After years of continuous creek flow, many of these culverts are in poor condition and failing. If they fail, they can cause personal and property damage from road cave-ins and flooding. CCWA's goal is to assess and address these culverts before failure occurs. In some cases, problems are found by you, the customers.

CCWA was called to a location where a sinkhole was forming under Thornton Boulevard, just north of Noah's Ark Road. Staff discovered a very large void that had formed under the roadway and sidewalk. There was no storm drain nearby, but looking over the roadway embankment, staff observed a flowing stream. The stream travelled under Thornton Boulevard and daylighted on the west side. Overgrowth of trees and shrubs kept this culvert hidden from view.

Staff performed an inspection of this creek culvert and revealed a severely eroded metal drainage system. The culvert was 60" in diameter and roughly

160' long. The culvert eroded and separated at several joints. The culvert was over 20' deep under the roadway. Plus, two of our potable (drinking) water mains were on either side of the roadway, along with a gas main. This project also included another storm drain system from a nearby subdivision that needed to be replaced.

Due to construction requirements, Thornton Boulevard had to be closed for up to six weeks. Traffic was re-routed through Deer Crossings Sub-Division. CCWA worked with Clayton County Transportation & Development Department to provide the necessary road safety & speed signs. Residents of Deer Crossing were notified. Clayton County Police Department increased patrols in the neighborhood to ensure drivers were abiding by the 25 mile per hour speed limit.

The creek culvert was replaced with 54" reinforced concrete pipe. The culvert length was increased to 180' to provide a sufficient embankment. The other two storm drains were combined under the road into a single 42" reinforced concrete pipe. That pipe was transitioned to a 42" High Density Polyethylene (HDPE) pipe outside the roadway. The pipe discharge points were fitted with concrete headwalls along with riprap (stone) to help dissipate the energy of the water and minimize erosion. After completion, the work area was restored to better than original condition. The length of road restored was 200' long including the sidewalk and curb/gutter. The replacement pipes are expected to have a life expectancy of at least 50 years of service, keeping this culvert issue-free for a long time. The overall cost of this repair is expected to be approximately \$415,000.



Spotlight: Stormwater Compliance Technician Matt Smith

Meet Stormwater Inspection Technician Matt Smith. Our Stormwater Utility falls under the EPA's Municipal Separate Storm Sewer System (MS4) compliance. Matt is responsible for completing the inspections for MS4 Report. This includes industrial, commercial inspections, best management practices (BMP), and outfall inspections.

For industrial inspections, Matt makes sure industries with EPA stormwater permits maintain compliance. This means building a working relationship with local industrial operators such as food production plants. For commercial businesses such as car washes, Matt works with them to ensure they are properly disposing of hazardous wastes. Hazardous waste can be anything from motor oil to lawn clippings. Stormwater runoff eventually winds up in our water supply, so it is critical that Matt works with these businesses to protect our water supply.

As part of our MS4 permit, CCWA's Stormwater utility is also responsible for maintaining city and county owned retention ponds. Detention ponds are known as dry ponds because they hold water for a short period of time, while retention ponds are known as wet ponds because they always maintain water. Matt regularly inspects these ponds to make sure they remain within compliance. Additionally, Matt also performs outfall (the final discharge point) inspections for outfalls in Clayton County that are within 500 feet of a stream. This helps CCWA detect any illegal discharge or connections into our stormwater system.

Matt also participates in public education through partnerships with our local school system and other outreach for residents throughout the county. In fact, this is that aspect of his job that he enjoys most. "I love working with the community and teaching them about stormwater and how important it is in our community," says Matt. Catch Matt at one of our signature events!



2020 Rivers Alive Stream Cleanup Tentative - Saturday, October 24 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. Volunteers will need to wear a mask/face covering. This is a great volunteer opportunity for scouts, civic groups, church groups, environmental clubs and families.

During our 2019 cleanup at Swint Elementary, more than 120 volunteers worked together to clean up around Flint River. Due to the COVID-19 virus, we will determine in late September whether we can hold this year's event. Check our website (ccwa.us) and follow our Facebook page (@ClaytonCountyWater) for updates.

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.



Connecting With Our Community

Board of Education Recognizes Stormwater Staff

The Clayton County Board of Education recognized CCWA Stormwater Staff Members Kwame Gyimah, Matt Smith, Chasten Burns and Stormwater Director Kevin Osbey in October 2019 for their work to help alleviate dangerous roadway flooding at West Clayton Elementary School. These employees worked with Clayton County Public School Maintenance Staff to resolve the issue before the school year opened, which improved safety for students, staff and area residents.

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.



Quality Water, Quality Service

1600 Battle Creek Road, Morrow, GA 30260
Customer Service 770.960.5200 / www.ccwa.us

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Teresa Worley, Assistant General Manager



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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