

WATER USE REDUCTION & EFFICIENCY

19. GOVERNMENT WATER AUDITS

DESCRIPTION OF MEASURE

The local government has performed indoor and outdoor water efficiency audits and is implementing the audit recommendations and/or is engaging in performance contracting for buildings owned by the local government. To receive credit for this measure, at least 20 percent of the local government's buildings must be audited with changes implemented and/or under a performance contract for water efficiency when documents are submitted for Green Communities Certification. The water audit must include an evaluation of toilets, urinals, sinks, showers, water using appliances, leaks and outdoor water use. Additionally, a plan must exist that ensures all existing buildings will be audited or under a performance contract within four years. All government-owned buildings open during normal weekday operating hours are subject to a water audit every 4-5 years.

DOCUMENTATION REQUIRED FOR CREDIT

- A description of items inspected for in the water audits
- A complete list of the existing government owned buildings, indicating those that have been audited and what changes have been implemented
- A description of the plan to audit and implement changes in remaining buildings within 4 years

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide documentation demonstrating that all the facilities owned and operated by the local government have received a water audit or are under a performance contract for water efficiency. Also provide an updated version of the list of facilities (including street address and zip code) that have received water audits or are under a performance contract and what recommendations from the audits or measures of the performance contract have been implemented. If a facility has not been audited or is not under a performance contract, please explain why. If possible, please provide any information the local government has on the water savings achieved as a result of these audits and water efficiency improvements. The local government should have some of the facilities entered into EnergyStar Portfolio Manager with a plan in place to have all facilities entered within two years of recertification.

OUR ACHIEVEMENTS

- A water audit was completed on all City facilities, and only 2 leaks were identified and reported. The inventory and status is included in a spreadsheet. The City of Norcross is currently tracking water utility usage for four city buildings. Half of the remaining facilities will be set up and tracked in Energy Star Manager by December 2020, and the remaining will be entered and tracked by May 2021.

Norcross Public Facilities Inventory						
Water Audit						
			July, 2015		February, 2020	
Bldg	Room	Fixture	Status	GPF / GPM	Status	GPF / GPM
Kudzu, 116 Carlyle	Bathroom	Sink	pass	2.2	pass	2.2
Kudzu	Bathroom	Toilet	pass	1.6	pass	1.6
Kudzu	Kitchen	Sink	pass	2.0	pass	2.0
Kudzu	Utility Closet	Mop Sink	pass		pass	
Latin Am. Assoc., 128 Lawrenceville St	Bathroom	Sink				
Latin Am. Assoc.	Bathroom	Toilet				
Latin Am. Assoc.	Kitchen	Sink				
Welcome Center, 189 Lawrenceville St	Hall	water fountain	pass		pass	
Welcome Center	Men's Bathroom	Sink	pass	2.2	pass	2.2
Welcome Center	Men's Bathroom	Toilet	pass	1.6	pass	1.6
Welcome Center	Women's Bathroom	Sink	pass	2.2	pass	2.2
Welcome Center	Women's Bathroom	Toilet	pass	1.6	Leaking/reported	1.6
Police Storage, 68 Wingo	Break Room	Sink	LEAKING	3.5	Pass	1.5
Police Storage	Men's Bathroom	Shower-1	pass		DECOMMISSIONED	
Police Storage	Men's Bathroom	Shower-2	pass		DECOMMISSIONED	
Police Storage	Men's Bathroom	Sink 1	pass	2.2	pass	2.2
Police Storage	Men's Bathroom	Sink 2	pass	2.2	pass	2.2
Police Storage	Men's Bathroom	Toilet 1	DECOMMISSIONED		DECOMMISSIONED	
Police Storage	Men's Bathroom	Toilet 2	DECOMMISSIONED		DECOMMISSIONED	
Police Storage	Outside	Hose-Bibb	pass		DECOMMISSIONED	
Police Storage	Storage Room	Hose-Bibb	pass		DECOMMISSIONED	
Police Storage	Storage Room	Mop Sink	pass		pass	
Police Storage	Women's Bathroom	Sink	pass	2.0	pass	2.0
Police Storage	Women's Bathroom	Toilet	pass	3.5	pass	3.5
City Hall, 65 Lawrenceville St	1st Floor Police Hall	water fountain	LEAKING		Leaking/reported	
City Hall	1st Floor Police Men's Bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	1st Floor Police Men's Bathroom	Sink 2	pass	2.2	pass	2.2
City Hall	1st Floor Police Men's Bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	1st Floor Police Men's Bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	1st Floor Police Men's Bathroom	Urinal 1	pass	1.5	pass	1.0
City Hall	1st Floor Police Men's Bathroom	Urinal 2	pass	1.5	pass	1.0
City Hall	1st Floor Police Women's Bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	1st Floor Police Women's Bathroom	Sink 2	pass	2.2	pass	2.2
City Hall	1st Floor Police Women's Bathroom	Sink 3	pass	2.2	pass	2.2
City Hall	1st Floor Police Women's Bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	1st Floor Police Women's Bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	1st Floor Police Women's Bathroom	Toilet 3	pass	3.5	pass	1.6
City Hall	1st Floor Utility Room	Mop Sink	pass		pass	
City Hall	2nd Floor Lobby	water fountain 1	pass		pass	
City Hall	2nd Floor Lobby	water fountain 2	LEAKING		pass	
City Hall	2nd Floor Hall	water fountain	pass		pass	
City Hall	2nd Floor Lobby Men's Bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	2nd Floor Lobby Men's Bathroom	Sink 2	pass	2.2	pass	2.2

			July, 2015		February, 2020	
Bldg	Room	Fixture	Status	GPF / GPM	Status	GPF / GPM
City Hall	2nd Floor Lobby Men's Bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	2nd Floor Lobby Men's Bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	2nd Floor Lobby Men's Bathroom	Urinal	pass	1.5	pass	1.0
City Hall	2nd Floor Lobby Women's Bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	2nd Floor Lobby Women's Bathroom	Sink 2	pass	2.2	pass	2.2
City Hall	2nd Floor Lobby Women's Bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	2nd Floor Lobby Women's Bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	2nd Floor Lobby Women's Bathroom	Toilet 3	pass	3.5	pass	1.6
City Hall	2nd Floor Police Hall	water fountain	pass		pass	
City Hall	2nd Floor Police Men's Bathroom	Shower	pass		pass	
City Hall	2nd Floor Police Men's Bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	2nd Floor Police Men's Bathroom	Sink 2	pass	2.2	pass	2.2
City Hall	2nd Floor Police Men's Bathroom	Sink 3	pass	2.2	pass	2.2
City Hall	2nd Floor Police Men's Bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	2nd Floor Police Men's Bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	2nd Floor Police Men's Bathroom	Urinal	pass	1.5	pass	1.0
City Hall	2nd Floor Police Women's Bathroom	Shower	pass		pass	
City Hall	2nd Floor Police Women's Bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	2nd Floor Police Women's Bathroom	Sink 2	pass	2.2	pass	2.2
City Hall	2nd Floor Police Women's Bathroom	Sink 3	pass	2.2	pass	2.2
City Hall	2nd Floor Police Women's Bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	2nd Floor Police Women's Bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	Break Room	Sink	pass	2.0	pass	2.0
City Hall	Break Room	Dishwasher	pass		pass	
City Hall	Break Room	Refrigerator Icemaker	pass		pass	
City Hall	Break Room	Icemaker	pass		pass	
City Hall	Break Room	Filtered Water Dispenser	pass		pass	
City Hall	Council Chambers Lobby	water fountain	pass		pass	
City Hall	Council Chambers men's bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	Council Chambers men's bathroom	Sink 2	pass	2.2	pass	2.2
City Hall	Council Chambers men's bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	Council Chambers men's bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	Council Chambers men's bathroom	Urinal	pass		pass	1.0
City Hall	Council Chambers women's bathroom	Sink 1	pass	2.2	pass	2.2
City Hall	Council Chambers women's bathroom	Sink 2	pass	2.2	pass	2.2
City Hall	Council Chambers women's bathroom	Toilet 1	pass	3.5	pass	1.6
City Hall	Council Chambers women's bathroom	Toilet 2	pass	3.5	pass	1.6
City Hall	Outside	Hose Bibb 1	leaks when valve open		pass	
City Hall	Outside	Hose Bibb 2	pass		pass	
City Hall	Outside	Hose Bibb 3	leaks when valve open		pass	
City Hall	Outside	Hose Bibb 4	pass		pass	
City Hall	Police Break Room	Sink	pass	2.2	pass	2.2

Norcross Public Facilities Inventory						
Water Audit						
Bldg	Room	Fixture	July, 2015		February, 2020	
			Status	GPF / GPM	Status	GPF / GPM
NCACC, 10 College St	1st Floor Hall	water fountain	pass		pass	
NCACC	1st Floor Conf Room Kitchen	Sink	NO AERATOR		pass	2.2
NCACC	1st Floor Conf Room Bathroom	Sink	pass	1.5	pass	0.5
NCACC	1st Floor Conf Room Bathroom	Toilet	pass	1.6	pass	1.6
NCACC	1st Floor Men's Bathroom	Sink 1	pass	1.5	pass	0.5
NCACC	1st Floor Men's Bathroom	Sink 2	pass	1.5	pass	0.5
NCACC	1st Floor Men's Bathroom	Toilet 1	pass	1.6	pass	1.6
NCACC	1st Floor Men's Bathroom	Toilet 2	pass	1.6	pass	1.6
NCACC	1st Floor Men's Bathroom	Urinal	LEAKING	1.5	pass	1.0
NCACC	1st Floor Women's Bathroom	Sink 1	pass	1.5	pass	0.5
NCACC	1st Floor Women's Bathroom	Sink 2	pass	1.5	pass	0.5
NCACC	1st Floor Women's Bathroom	Toilet 1	pass	1.6	pass	1.6
NCACC	1st Floor Women's Bathroom	Toilet 2	pass	1.6	pass	1.6
NCACC	1st Floor Women's Bathroom	Toilet 3	pass	1.6	pass	1.6
NCACC	2nd Floor Kitchen	Sink	pass		pass	1.4
NCACC	2nd Floor Kitchen	Dishwasher	pass		DECOMMISSIONED	
NCACC	2nd Floor Kitchen	Icemaker	pass		pass	
NCACC	2nd Floor Kitchen	Coffee Maker	pass		pass	
NCACC	2nd Floor Men's Bathroom	Sink 1	pass	1.5	pass	0.5
NCACC	2nd Floor Men's Bathroom	Sink 2	pass	1.5	pass	0.5
NCACC	2nd Floor Men's Bathroom	Sink 3	pass	1.5	pass	0.5
NCACC	2nd Floor Men's Bathroom	Toilet 1	pass	1.6	pass	1.6
NCACC	2nd Floor Men's Bathroom	Toilet 2	pass	1.6	pass	1.6
NCACC	2nd Floor Men's Bathroom	Toilet 3	pass	1.6	pass	1.6
NCACC	2nd Floor Men's Bathroom	Urinal	pass	1.5	pass	1.0
NCACC	2nd Floor Women's Bathroom	Sink 1	pass	1.5	pass	0.5
NCACC	2nd Floor Women's Bathroom	Sink 2	pass	1.5	pass	0.5
NCACC	2nd Floor Women's Bathroom	Sink 3	pass	1.5	pass	0.5
NCACC	2nd Floor Women's Bathroom	Toilet 1	pass	1.6	pass	1.4
NCACC	2nd Floor Women's Bathroom	Toilet 2	pass	1.6	pass	1.6
NCACC	2nd Floor Women's Bathroom	Toilet 3	pass	1.6	pass	1.6
NCACC	2nd Floor Women's Bathroom	Toilet 4	pass	1.6	pass	1.26
NCACC	Lionheart Kitchen	Sink	pass		pass	2.2
NCACC	Basement Kitchen	Sink	pass	2.0	pass	2.0
NCACC	Basement Men's Bathroom	Sink	pass	1.5	pass	0.5
NCACC	Basement Men's Bathroom	Toilet	pass	1.6	pass	1.6
NCACC	Basement Women's Bathroom	Sink	pass	1.5	pass	0.5
NCACC	Basement Women's Bathroom	Shower	pass (toilet)	1.6	pass (renovated to shower)	
NCACC	Outside	Hose Bibb 1	pass		pass	
NCACC	Outside	Hose Bibb 2	pass		pass	

Norcross Public Facilities Inventory						
Water Audit						
Bldg	Room	Fixture	July, 2015		February, 2020	
			Status	GPF / GPM	Status	GPF / GPM
Rectory, 17 College St	Bathroom H/C	Sink	pass	2.0	pass	2.0
Rectory	Bathroom H/C	Toilet	pass	3.5	pass	3.5
Rectory	Bathroom	Sink	pass	1.5	pass	1.5
Rectory	Bathroom	Toilet	pass	3.5	pass	3.5
Rectory	Kitchen	Sink	pass		pass	2.2
Rectory	Kitchen	Dishwasher	pass		pass	
Mauldin Park, Jones St		Fountain			pass	
Lillian Webb Park, 5 College St	Breezeway	water fountain	pass		pass	
Lillian Webb Park	Men's Bathroom	Sink 1	pass		pass	0.5
Lillian Webb Park	Men's Bathroom	Sink 2	pass		pass	0.5
Lillian Webb Park	Men's Bathroom	Toilet	pass	1.6	pass	1.6
Lillian Webb Park	Men's Bathroom	Urinal 1	pass		pass	0.5
Lillian Webb Park	Men's Bathroom	Urinal 2	pass		pass	0.5
Lillian Webb Park	Women's Bathroom	Sink 1	pass		pass	0.5
Lillian Webb Park	Women's Bathroom	Sink 2	pass		pass	0.5
Lillian Webb Park	Women's Bathroom	Toilet 1	pass	1.6	pass	1.6
Lillian Webb Park	Women's Bathroom	Toilet 2	pass	1.6	pass	1.6
Lillian Webb Park	Women's Bathroom	Toilet 3	pass	1.6	pass	1.6
Rossie Brundage Park, Astry St	Kitchen	Sink			pass	2.5
Rossie Brundage Park	Men's Bathroom	Sink			pass	1.5
Rossie Brundage Park	Men's Bathroom	Toilet 1			pass	1.6
Rossie Brundage Park	Men's Bathroom	Toilet 2			pass	1.6
Rossie Brundage Park	Women's Bathroom	Sink			pass	1.5
Rossie Brundage Park	Women's Bathroom	Toilet 1			pass	1.6
Rossie Brundage Park	Women's Bathroom	Toilet 2			pass	1.6
Thrasher Park, 93 Park Drive	Men's Bathroom	Sink			pass	0.5
Thrasher Park	Men's Bathroom	Toilet			pass	1.6
Thrasher Park	Men's Bathroom	Urinal			pass	0.5
Thrasher Park	Outside	Hose Bibb 1			pass	
Thrasher Park	Outside	Hose Bibb 2			pass	
Thrasher Park	Outside	water fountain 1			pass	
Thrasher Park	Outside	water fountain 2			pass	
Thrasher Park	Women's Bathroom	Sink			pass	0.5
Thrasher Park	Women's Bathroom	Toilet 1			pass	1.6
Thrasher Park	Women's Bathroom	Toilet 2			pass	1.6
Public Works, 345 Lively	Men's Bathroom	Toilet 1			pass	1.3
Public Works	Men's Bathroom	Toilet 2			pass	1.3
Public Works	Men's Bathroom	Sink			pass	1.5
Public Works	Front Lobby Kitchen	Sink			pass	2.2
Public Works	Front Lobby Kitchen	Refrigerator Icemaker			pass	
Public Works	Conference Room Hallway	water fountain 1			pass	
Public Works	Conference Room Hallway	water fountain 2			pass	
Public Works	Women's Bathroom	Toilet 1			pass	1.3

Norcross Public Facilities Inventory						
Water Audit						
		July, 2015		February, 2020		
Bldg	Room	Fixture	Status	GPF / GPM	Status	GPF / GPM
Public Works	Women's Bathroom	Toilet 2			pass	1.3
Public Works	Women's Bathroom	Sink			pass	1.5
Public Works	Executive Bathroom	Toilet			pass	1.3
Public Works	Executive Bathroom	Sink			pass	2.2
Public Works	Utility Closet	Mop Sink			pass	
Public Works	Employee Locker Hall	Washing Machine			pass	
Public Works	Employee Locker Hall	Icemaker			pass	
Public Works	Employee Locker Hall	Mop Sink			pass	
Public Works	Employee Locker Hall	water fountain 1			pass	
Public Works	Employee Locker Hall	water fountain 2			pass	
Public Works	Men's Locker Room	Toilet 1			pass	1.3
Public Works	Men's Locker Room	Toilet 2			pass	1.3
Public Works	Men's Locker Room	Urinal 1			pass	1.0
Public Works	Men's Locker Room	Urinal 2			pass	1.0
Public Works	Men's Locker Room	Sink 1			pass	1.5
Public Works	Men's Locker Room	Sink 2			pass	1.5
Public Works	Men's Locker Room	Sink 3			pass	1.5
Public Works	Men's Locker Room	Shower 1			pass	
Public Works	Men's Locker Room	Shower 2			pass	
Public Works	Men's Locker Room	Shower 3			pass	
Public Works	Women's Locker Room	Toilet 1			pass	1.3
Public Works	Women's Locker Room	Toilet 2			pass	1.3
Public Works	Women's Locker Room	Sink 1			pass	1.5
Public Works	Women's Locker Room	Sink 2			pass	1.5
Public Works	Women's Locker Room	Shower 1			pass	
Public Works	Women's Locker Room	Shower 2			pass	
Public Works	Employee Break Room	Sink			pass	1.8
Public Works	Employee Break Room	Refrigerator Icemaker			pass	
Public Works	Community Service Room	Sink			pass	0.5
Public Works	Community Service Room	Toilet			pass	1.3
Public Works	Outside	Hose Bibb 1			pass	
Public Works	Outside	Hose Bibb 2			pass	
Pinnacle Park, 250 Pinnacle Way	Women's Bathroom	Sink 1			pass	0.5
Pinnacle Park	Women's Bathroom	Sink 2			pass	0.5
Pinnacle Park	Women's Bathroom	Toilet 1			pass	1.6
Pinnacle Park	Women's Bathroom	Toilet 2			pass	1.6
Pinnacle Park	Women's Bathroom	Toilet 3			pass	1.6
Pinnacle Park	Men's Bathroom	Sink 1			pass	0.5
Pinnacle Park		Sink 2			pass	0.5
Pinnacle Park		Toilet 1			pass	1.6
Pinnacle Park		Toilet 2			pass	1.6
Pinnacle Park		urinal			Leaking/reported	0.5
Pinnacle Park	Water Fountain 1				pass	

Norcross Public Facilities Inventory						
Water Audit						
		July, 2015		February, 2020		
Bldg	Room	Fixture	Status	GPF / GPM	Status	GPF / GPM
Pinnacle Park	Water Fountain 2				pass	
Veterans Park, 160 N Norcross Tucker	Water Fountain				pass	
Discovery Garden Park, 219 Lawrenceville St	Women's Bathroom	Sink			pass	0.5
Discovery Garden Park		Toilet			pass	1.6
Discovery Garden Park	Men's Bathroom	Sink			pass	0.5
Discovery Garden Park		Toilet			pass	1.6
Discovery Garden Park	Garden Hose Bibbs		1		pass	
Discovery Garden Park			2		pass	
Discovery Garden Park			3		pass	
Discovery Garden Park			4		pass	
Discovery Garden Park			5		pass	
Discovery Garden Park			6		pass	

20. GOVERNMENT ULTRA-HIGH-EFFICIENCY PLUMBING RETROFITS

DESCRIPTION OF MEASURE

The local government has developed a policy and schedule for the replacement of inefficient toilets (3.5 gpf or greater), urinals (1.0 gpf or greater) and faucets (2.2 gpm or greater) in all buildings owned by the local government. The policy must specify that ultra-high-efficiency plumbing fixtures that meet the following standards must be installed: WaterSense labeled toilets using 1.1 gpf or less, urinals using 0.125 gpf or less, and faucets/aerator retrofits using 1.0 gpm or less, unless a higher flow rate is dictated by sink use (example: kitchen prep sink.)

To receive credit for this measure, at least 20% of the local government's buildings must have been retrofitted by the time of certification. Additionally, a plan must exist that ensures all existing buildings will be retrofitted within 4 years.

DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the policy with date of adoption
- A list of all existing government owned buildings. On the list, indicate which ones have been retrofitted with ultra-high-efficiency plumbing fixtures
- A description of the plan to retrofit remaining buildings within 4 years

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide documentation demonstrating that all facilities owned and operated by the local government have undergone ultra-high-efficiency plumbing retrofits. Provide a copy of the most recent version of the policy and a description of any changes that have occurred since the local government's most recent Green Communities certification. Provide a description of how the policy is being implemented including the number of ultra-high-efficiency plumbing fixtures installed since the local government's most recent Green Communities certification. If possible, provide an estimate on the amount of water saved by installing the ultra-high-efficiency fixtures.

OUR ACHIEVEMENTS

- In the list below, all government owned buildings and plumbing fixtures within those buildings.
- All the 0.5 gpm sink aerators and 0.5 gpf urinals count toward the ultra-high efficiency. If the 0.5 gpm sink aerators and 0.5 gpf urinals count toward the ultra-high efficiency.

RESOLUTION FOR CITY OF NORCROSS

WHEREAS, the City of Norcross desires to conserve water and help conserve a valuable natural resource as a wholesale customer of the Gwinnett Water System, and

WHEREAS, the City of Norcross desires to be a Green Community, and

WHEREAS, the City of Norcross desires to be certified by the Atlanta Regional Commission as a Green Community that is leading the way to sustainable living, and

WHEREAS, the City of Norcross desires to adopt a policy of water conservation for all new buildings constructed after the date of the adoption of this policy, and

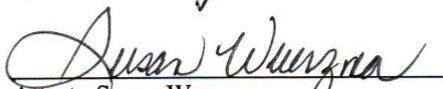
WHEREAS, the City of Norcross believes that using only WaterSense, fixtures, as listed by the United States Environmental Protection Agency on its WEB site at www.epa.gov/watersense, is a policy that will conserve natural resources and save the city money in the long run

NOW BE IT THEREFORE RESOLVED THAT, the City of Norcross will require the installation of WaterSense fixtures (toilets, urinals, shower heads, and faucets), if reasonably available, in all new buildings constructed by the city and in all building refurbishment undertaken by the city henceforth.

Adopted, this fourth day of May, 2009.



Mayor Bucky Johnson



Attest: Susan Wuerzner



POLICY AND PROCEDURE

EFFECTIVE DATE: 5/01/2009

POLICY TITLE: High Efficiency Plumbing Retrofit

REVISION DATE: 3-19-2020 NEXT REVIEW DATE: 1/01/2021

APPROVED BY: 
Director of Public Works

PURPOSE OF POLICY:

The City of Norcross began switching plumbing fixtures in 2009. The City adopted a resolution in 2009 that stated all new buildings would install WaterSense fixtures. Furthermore, as fixtures needed replaced, the City replaced inefficient toilets, urinals, and faucets with high-efficiency plumbing fixtures.

As standards are being reviewed and even more high-efficiency fixtures are available, the City will continue to strive to meet the new standards by replacing fixtures as needed that meet below criteria. Current standards include the installation of the following fixtures; WaterSense labeled toilets using 1.1 gpf or less, urinals using 0.125 gpf or less, and faucets/aerator retrofits using 1.0 gpm or less, unless a higher flow rate is dictated by sink use (example: kitchen prep sink.)

An audit of all fixtures was completed in Feb. 2020. Since implementation of resolution, 63 of 66 toilets are under 3.5, 4 of 13 urinals are under 1.0 and 46 of 77 sinks are less than 2.2. Current audit compared to 2015 audit is attached which shows our progress in replacing inefficient fixtures.

As of 2019, we have utility tracking software which will enable us to better evaluate the water savings obtained through our retrofits.

21. GOVERNMENT RAINWATER OR REUSE WATER

DESCRIPTION OF MEASURE

The local government uses rainwater or reuse water for irrigation instead of potable water at one or more local government facilities. The project must be permanent and decrease existing potable water use at the site.

DOCUMENTATION REQUIRED FOR CREDIT

- Description of project
- A copy of the design plan showing the non-potable water sources and sites for irrigation
- Photographs of the site and samples of the educational material provided to visitors, as well as the specific location of education materials on site

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide an update on the number of rainwater and reuse water projects on property owned and operated by the local government. For each building, provide the address (including street and zip code) and any additional information available regarding the project, including type (rainwater or reuse), purpose, and potable water savings.



OUR ACHIEVEMENTS

- Welcome Center – 189 Lawrenceville St. Norcross, GA 30071
 - Type: Rainwater
 - The City of Norcross installed a rain barrel at the Community Garden for the community to use rainwater for their plots in the garden. Staff gave training to the Chair of the Discovery Garden Park Board how to properly use the rain barrel on October 8th, 2019. The chair educated members again of the rain barrel use at the following board meeting on October 14th, 2019.
 - Education will be provided annually so that all new renters will understand how the system works. The purpose of educating members of rain barrel is to ensure that they are using the rain water rather than water from faucet to conserve and save money.



Discovery Garden Park Meeting Minutes

Date/Time: Monday, Feb. 17, 2020, at 6:00pm
Location: Home of Barbara Kohlhausen

Call to Order / Roll Call: Barbara called the meeting to order at 6:06pm. Members present included Barbara, Rodger Harris, William Makson, Buddy Brand, Ann Steel. (Not attending: Josh Bare, Nona Johnson)

Officer Reports:

- **Minutes Review:** Minutes from last meeting approved. Going forward from this meeting, Ann will send to Board members for approval PRIOR to sending to Monique Lange.
- **Treasurer Report:** (William)

Discovery Garden Park Financial Report			
02/01/20	Jan-20	1/1/20-1/31/20	
Beginning Balance		\$13,954.85	
Revenue this month			Expenses this month
Interest earned	\$0.47	CC payment	\$74.06
Corrected Check the Allens	\$100.00	CC 1233 John Outler	\$1,589.63
Subtotal	\$14,055.32	Edging for Espalier beds	
		Hardware for Signs	
Credit Card Charges		CC 1231 Ann Steel	\$399.64
Publix, Orange Juice	\$13.64	School Supplies \$285.29	
Amazon, Bamboo Skewers	\$20.99	Xmas Décor \$53.43	
Publix, Chocolate Milk	\$27.58	Fire Logs \$14.99	
Publix, Firewood	\$11.85	Marshmallows \$14.95	
Total CC Charges	\$74.06	Cookies \$30.98	
		Total Expenses	\$2,063.33
		Final Balance this month	\$11,991.99

- **Grounds Update:** (All)
 - Plot Manager will be Barbara. There are a number of beds NOT being weeded or prepped for winter. We will talk about that at the workday on March 7th.
 - There was vandalism in the Garden. Two instances occurred this month. William's bamboo poles were destroyed, a number of large plants in several beds were uprooted, the hoses were pulled out, a number of garden ornaments were broken. Barbara spoke with the police. They looked at the video and identified the kids that were doing this. They spoke to the parents. The Board members have recorded the non-emergency number for the police in case it happens again.
 - Garden Work day – We will have another Garden work day on March 7th. We will start taking roll at these, as attendance is supposed to be mandatory, and bed renters are to contribute a certain number of work hours to help keep the Garden neat. We will take a roster (Ann to create) with us, and also start having name tags (Barb to get) at each meeting. Emails don't seem to get any response, so we are texting the members. Rodger will order the mulch, and Josh and Buddy will get the slate chips for the walks. Barb and William will get the drinks and pastries. We will get the empty soil bag deposit of \$10.
 - Rodger described Compost Tea---an option to use kitchen waste to produce a liquid fertilizer.
- **Old Business:** (*previously discussed by the Team*)
 - Reimbursement protocol – We reviewed and agreed that we want to use the DGP credit card whenever possible, making it unnecessary
 - Development of a budget for the new year – We discussed the needs for the Garden for 2020, and using last year's figures, have decided that an operating budget of \$5000 will cover everything we need. While the rental fees provides about half of that, we will still need to raise about \$2500.
 - Review of bed renter list – We are cleaning up the last few details on the list of bed renters and their payments.
 - Discussion on the bricks for fund raising – We will start to offer the memorial bricks for sale at the price of \$60.00. We have the form template for people to fill out, and we will call the ad company to get the previous material recreated. We have about 300 spaces left in the current site, and can expand that to other locations in the Garden, if needed. We could also have a bench sponsorship or other memorial.
- **New Business:** (*not previously discussed by the Team*)
 - Barbara had been completing an application for a \$1500 grant for the Garden. Prior to completion she learned that the City now had a grant writer, and that person was to handle it. She turned it over to that person. We will monitor results.
 - Bee City update: The Bee City group is completing its certification for 2020. We are working with a local elementary school to teach gardening skills and provide information about pollinators. The group will rent our area where the hay bales used to be, and plan native pollinator friendly plants. Ann will give them the invoice on the 21st.
 - Water preservation – Rodger will include information and hand-outs about water preservation at our next Work Day meeting. He will also stress the importance of using water from the rain barrel. It is important to the City in order form them to keep their Platinum certification. We will be adding a new bylaw stating that all gardeners are asked to use the water in the water holding tank for watering their gardens instead of using the hoses as their first option.
- **Adjourn**
 - o Barbara adjourned the meeting at 7:30pm

Dates: March 7

Mimosa Brunch Work Day

10-11:30am

We will also lay mulch/slate chips

Meeting Agenda

Date/Time: Monday, October 14, 2019, at 6 pm

Location: If fair, DGP If rain, VSOP Taproom

Call to Order / Roll Call

Officer Reports:

Minutes Review: (Buddy)

Treasurer Report: (William) absent

William has reported great difficulty in getting any financials (bank statement, credit card statements, etc.) from the city in a timely fashion to prepare his reports.

Grounds Update: (Rodger, Barbara)

Hay bales

Work day, the 19th

Prep for Smokin' in the Garden

Water conservation

Use of rain barrel in the garden – renters need education

New Business: (Barbara)

Communication between board members and community

Decisions as a board

Old Business: (All)

Preparations for Smokin'

Santa Claus at DGP – Sat, Dec., wreath making , Sun. Dec. 8th

Next Steps / Action Items:

Contact city regarding accessing financial statements regularly.

Adjourn



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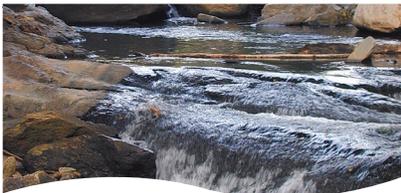


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Clean Water Campaign
www.cleanwatercampaign.com

When It Rains

It Pollutes!



Why should you care about clean water?

Did you know that when it rains it pollutes? It all starts in your neighborhood.

Every time it rains, water runs off the land as stormwater. As it flows over rooftops, lawns, driveways and streets, stormwater picks up pollutants and debris such as dirt, motor oil, fertilizer, litter and pet waste. All of these pollutants are carried by stormwater into storm drains and drainage ditches, which flows untreated into our rivers, lakes and streams.

Stormwater pollution is the biggest threat to our waterways. It harms our ability to use our rivers and lakes for swimming and fishing, makes treating our drinking water more difficult and negatively impacts the environment.

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1. Never dump anything onto the street, down a storm drain or into a drainage ditch.
2. Pick up after your pet. Bag it and throw it into the trash.
3. Compost or bag your grass clippings and leaves for curbside collection.
4. Use fertilizers and pesticides sparingly.
5. Put litter in its place.
6. Keep your septic system maintained to prevent leaks.
7. Check your vehicles for leaks and repair them as soon as possible.
8. Always recycle your motor oil and other vehicle fluids.
9. Wash your car over a grassy area or at a commercial car wash, not on your driveway.
10. Tell a friend or neighbor how they can help prevent stormwater pollution.



How can I get involved?

There are many different ways to get involved in the Clean Water Campaign. Here are just a few:

- ◆ Invite a Clean Water Campaign partner to speak at your next civic or neighborhood meeting.
- ◆ Visit www.cleanwatercampaign.com for more detailed information on ways to prevent stormwater pollution.
- ◆ Volunteer at a local stream cleanup. Visit www.riversalive.org for upcoming events in your community.

Contact Information

Clean Water Campaign

www.cleanwatercampaign.com



22. GOVERNMENT GEFA WATERFIRST COMMUNITY

DESCRIPTION OF MEASURE

The local government is a WaterFirst Community. WaterFirst is a voluntary community partnership between local governments and the Georgia Environmental Finance Authority (GEFA) that is aimed at improving the efficiency of water use and protection of water. To become a WaterFirst Community, a local government must exceed current requirements in eight categories: Watershed Assessment, Stormwater Master Planning, Water Supply Planning, Water Supply Protection, Water Conservation, Wastewater Treatment Systems and Management, Residual Biosolids, and Water Reclamation and Reuse.

DOCUMENTATION REQUIRED FOR CREDIT

A copy of the current WaterFirst Community designation for the jurisdiction

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a copy of the most recent WaterFirst Community designation. This letter must be dated within the last five years since GEFA renews WaterFirst Community designations every five years.

RESPONSE

The City will not be pursuing points for this measure at this time.

23. GOVERNMENT GREEN INFRASTRUCTURE

DESCRIPTION OF MEASURE

The local government has installed a demonstration green infrastructure project on government property or public right-of-way. The objective of the project is to reduce stormwater runoff while allowing for the natural infiltration and filtering of water from storm events. The demonstration project must provide onsite educational materials about green infrastructure. The educational materials can include plaques or pamphlets and should explain the benefits of installing green infrastructure, what materials the project used, and how green infrastructure could be used by residents and businesses.

DOCUMENTATION REQUIRED FOR CREDIT

- Submission of completed project photos, the education materials available for the community on site, and the location of the education materials on site

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide an update on the number of green infrastructure projects located on local government property. For each project, provide the address (including street and zip code) and any additional information available regarding the project, including type or green infrastructure, size, etc. If possible, please provide any information the local government has on the stormwater benefits, or other measurable benefits achieved as a result of installing the green infrastructure project.

RESPONSE

The City will not be pursuing points for this measure at this time.

24. COMMUNITY WATER RESOURCE MANAGEMENT PLAN

DESCRIPTION OF MEASURE

The local jurisdiction is in compliance with the Metro Water District Water Resource Management Plan as determined by the Georgia Environmental Protection Division (EPD). The plan includes best management practices for water supply, wastewater, and watersheds. Some of the measures that have the most effect on reducing environmental impact include the following:

- Conservation pricing
- Toilet replacement program for single and multi-family homes
- Pre-rinse spray valve replacement program
- Rain sensor shut-off switches on new irrigation systems
- Sub-meters in new multi-family buildings
- Water loss control and reduction
- Residential water use assessments
- Commercial water use assessments
- Require new car washes to recycle water
- Grease management program
- Sewer system inspection and maintenance program measures
- Capacity certification program
- Private decentralized wastewater system ordinance
- Post-development stormwater management ordinance
- Stream buffer protection ordinance
- Illicit discharge and illegal connection ordinance
- Greenspace and green infrastructure tools for watershed protection
- Pollution prevention/good housekeeping for local operations
- Community Education

DOCUMENTATION REQUIRED FOR CREDIT

Letter from EPD stating the jurisdiction is in compliance with or making a good faith effort towards compliance with the plan

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a copy of the most recent letter from EPD stating that the jurisdiction is in compliance with or making a good faith effort towards compliance with the plan. This letter must be dated within the last five years since EPD conducts an audit of each local government every five years.

RESPONSE

- Below is the attached letter from EPD.



Richard E. Dunn, Director

Watershed Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1152, East Tower
Atlanta, Georgia 30334
404-463-1511

February 6, 2019

Honorable Craig Newton, Mayor
City of Norcross
65 Lawrenceville Street
Norcross, Georgia 30071-2556

RE: Phase I Municipal Separate Storm
Sewer System (MS4)
NPDES Permit No. GAS000127
Compliance Inspection Report

Dear Mayor Newton:

On January 25, 2019, the Environmental Protection Division (Division) conducted an inspection of your stormwater management program (SWMP) in order to evaluate the implementation and administration of the program. Based on the inspection, the City of Norcross (City) is taking steps towards the proper administration of the program.

Per the Permit, the City was required to conduct inspections and maintenance of its privately owned non-residential and publicly owned GI/LID structures, beginning in June 2017. This information was not included in the annual report. Provide a status update on the City's efforts concerning this requirement to the Division by March 8, 2019.

Commented [WC1]: Update based on mail date.

Thank you for your cooperation in this matter. If you have any questions, please contact me at 404/651-8544.

Sincerely,

Mildred A. Granderson
Environmental Compliance Specialist
Stormwater Unit

MAG/mag

Cc: Mary Beth Bender, Director of Public Works



MAYOR **CRAIG NEWTON** · MAYOR PRO TEM **ANDREW HIXSON** · COUNCILMAN **JOSH BARE** · COUNCILMAN **CHUCK PAUL**
COUNCILMAN **DAN WATCH** · COUNCILWOMAN **ELAINE PUCKETT** · CITY MANAGER **RUDOLPH SMITH** · CITY CLERK **MONIQUE LANG**

Georgia Dept of Natural Resources
Water Protection Branch
2 Martin Luther King Jr. Drive
Atlanta, GA 30334
ATTN: Mildred Graderson

RE: Phase 1 MS4
NPDES Permit No. GAS000127
Compliance Inspection Report

Ms. Granderson,

We received your letter dated 2/6/19 asking for an update on our maintenance and inspections of GI/LID structures. Please know that we will be checking our list of facilities and doing inspections before our next annual report is submitted. We intend to submit inspections logs with that report.

Please let me know if you have any questions or need any additional information at this time. I can be reached by phone at 678-421-2032 or via email at erica.madsen@norcrossga.net.

Thanks in advance,

Erica S Madsen

Erica S. Madsen, PE
City Engineer
City of Norcross

CC: Mary Beth Bender

25. COMMUNITY WATER EDUCATION

DESCRIPTION OF MEASURE

The local government has developed and implemented a local education program to achieve awareness of water supply and conservation issues with the goal of building public support for local actions and activities as well as changing behaviors that leads to the long-term protection of our water resources and watersheds. The program must include both public education and outreach, as well as public involvement and participation activities:

- Education and outreach program activities are designed to distribute education materials and messages, and perform outreach to inform citizens and target audiences.
- Public participation and involvement activities provide opportunities for citizens to participate in programs and active implementation of water supply and water conservation programs, such as water festivals and community workshops.

If the local government is a partner in the local water utility's program, to receive credit for this measure, the local government must submit documentation demonstrating how it actively coordinates with the utility on a regular basis to further the water education program, specific outreach efforts the local government has initiated within its jurisdiction, and the name and contact information for the person at the local government who works with the water utility on the program.

DOCUMENTATION REQUIRED FOR CREDIT

- General description of the community water education program
- A copy of the education and outreach materials used to educate the community
- Documentation showing that at least two "Education and Outreach Program Activities" and two "Public Participation and Involvement Activities" have occurred within the last year

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide an update on the local government's water education program, including any program changes since the local government's most recent Green Communities certification, a copy of the education and outreach materials used, documentation showing that at least two "Education and Outreach Program Activities" and two "Public Participation and Involvement Activities" have occurred annually.

RESPONSE

- Education and Outreach
 - Distributed brochures throughout government facilities for residents to pick up. The brochures covered topics such as Stormwater Pollution, Landscape Irrigation, and Water Conservation.
 - Information on how the City's efforts to conserve water are posted on the Sustainability Webpage hosted on the City's Homepage.



WHAT IS AN ILLICIT DISCHARGE?

An illicit discharge is any activity or event that results in a release, flow, spill, escape or disposal of any material other than rainwater (including liquids or solids) into the storm drain system.

When you think of "illicit discharges," large oil, sewage and chemical spills come to mind. These are easy to spot and easy to prevent, but they are not the biggest sources of stormwater pollution. We all affect the health of our watershed in many ways that are not too obvious.

OUR WATERSHED & STORMWATER POLLUTION

The watershed is the total land area from which rainwater drains into a stream, river or body of water. The watershed includes all of the natural terrain and neighborhoods surrounding these major water bodies, including your business.

When it rains, stormwater moves quickly, transporting untreated pollutants directly into our watershed. A simple rain event can result in one big "illicit discharge."

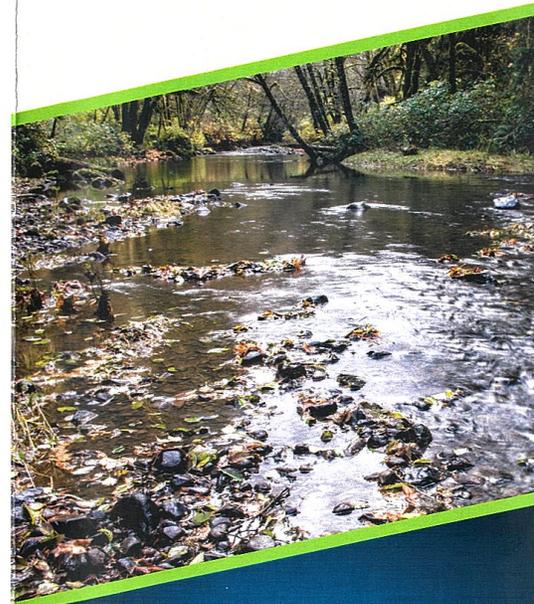


Public Works, Utilities & Parks
345 Lively Ave, Norcross, GA 30071
770.448.2112

The Community for a Clean Watershed program was established to protect watersheds by preventing stormwater pollution. For more information on keeping our watersheds clean, go to www.gwinnettcba.org.



ILLICIT DISCHARGE PREVENTION for Business Owners



Learn more about the watershed and how you can help protect it.

www.NorcrossGa.net

MAKE YOUR BUSINESS PART OF THE CLEAN WATERSHED EQUATION WITH THESE ILLICIT DISCHARGE PREVENTION GUIDELINES:

STORAGE

Appropriate storage of liquids and solids can help prevent pollutants from getting into the storm drain system. Inside or under cover is best.

CLEANERS

Store cleaning products where they are protected from rain, and prevent spills from reaching the storm drain system.

CHEMICALS

Any material used or waste generated must be managed according to state regulations. Use secondary containment to prevent accidental discharges or leaks.

EQUIPMENT

Store materials like batteries and machinery in trays or with drip pans to contain potential leaks and spills.

TRASH

Keep dumpster lids closed and place covers on all waste containers. Never put liquid waste into a dumpster. Store outdoor waste receptacles under cover to reduce exposure to rain that could wash pollutants into the storm drain system.

RECYCLING & DISPOSAL

For general information on recycling and disposal programs for businesses, call City of Norcross 770.448.2122.

MAINTENANCE

Regular maintenance can prevent pollution and can ensure that your activities aren't contributing to stormwater pollution.

SURFACE CLEANING

Regularly sweeping parking lots and areas around you business prevents pollution. Hosing oil, grease, soap and other pollutants into the storm drain system can result in a fine.

WASH WATER

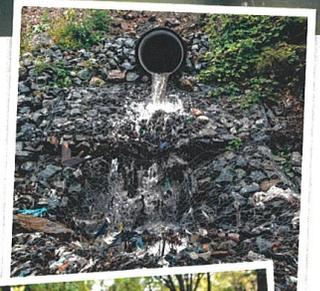
All cleaning solutions can harm wildlife, even if labeled nontoxic or biodegradable. Dispose of all nonhazardous wash water into indoor drains like sinks and toilets.

HAZARDOUS SPILLS

Keep spill kits near stored chemicals or bulk cleaning agents. Use absorbent mats or socks to prevent accidental spills from reaching the street or storm drain system.

PARTS/EQUIPMENT

Use self-contained sinks and tanks when cleaning parts with degreasing solvents. Consider switching to a water-based cleaning solution. Use pans to catch leaks when working on engines or machinery.



REPAIRS & CONSTRUCTION

Take precautions to prevent illicit discharges during all building repair or remodeling, especially concrete work and painting. You can be held responsible for problems created by your contractor. Before work begins, be sure your contractor knows where to properly dispose of all wastes created.

Nothing but rainwater may be discharged to a storm drain. It is illegal, as well as harmful, to allow wastes, wash water, cleaning agents or materials of any kind into the storm drain system.



Business generates waste and stores it on-site. Many businesses use dumpsters, compactors and other containers. These containers are often located near buildings or in backyards and are often out of sight from the general public.

These containers may be used for storing stormwater pollution. If not properly operated and maintained, these dumpsters may leak or overflow, which can mix with the stormwater. The polluted stormwater can leak when the dumpster is full. Rain may wash spills and trash from compactors into storm drains. Runoff from cleaning refuse loading docks is another source of stormwater pollution. Runoff from these sources can contain oil, grease, litter, bacteria, and other pollutants. Properly maintained and clean dumpsters and compactors can help prevent unsightly



**Norcross Public Works, Utilities
& Parks Department**
345 Lively Ave, Norcross, GA 30071
678.421.2069



DUMPSTER MANAGEMENT



ONLY RAIN IN THE
**STORM
DRAIN**

www.NorcrossGa.net

HOW TO PREVENT STORMWATER POLLUTION



Inspect dumpsters and compactors regularly for leaks (*at least once a month*).



Inspect dumpster and compactor area regularly for litter or stains (*at least once a week*).



Replace leaking dumpsters, waste containers and compactors as soon as possible (*call your waste management contractor for a replacement*).



Control litter by making sure waste is contained in dumpsters and compactors. Sweep loading dock area regularly and place sweepings in the trash.



Increase receptacle service frequency if capacity is routinely exceeded.



Avoid or minimize placing liquid waste, grease or leaky garbage bags in dumpsters. Place liquid waste in closed (or sealed) containers for disposal.



Avoid hosing out the dumpster interior. Apply absorbent materials such as kitty litter over any liquids spilled in the dumpster and dispose of it in the trash.



Keep dumpster lids tightly closed to keep rainwater out and prevent leaks. Replace damaged or missing lids.



Do not place hazardous waste in a dumpster. Lock the dumpster or enclosure to prevent illegal disposal of hazardous materials.



Post signs that indicate the materials that can be placed in the container. Check regularly for unacceptable materials.



Keep dumpster and compactors in a covered area. If not practical, ensure covers on each receptacle are closed.



Install berms or curbs around dumpsters and loading docks to contain leaks, spills and trash. Collect any wash water with a wet vacuum system.



Install a water quality management device to treat runoff from the dumpster area.

TROUBLED WATERS

Consider what materials and pollutants may be present before you place anything down a storm drain. Only clean, unchlorinated water is allowed into the storm drain, which ends up in our local streams, which are a source of our drinking water.



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How can I get involved?

There are many different ways to get involved in the Clean Water Campaign. Here are just a few:

- ◆ Invite a Clean Water Campaign partner to speak at your next civic or neighborhood meeting.
- ◆ Visit www.cleanwatercampaign.com for more detailed information on ways to prevent stormwater pollution.
- ◆ Volunteer at a local stream cleanup. Visit www.riversalive.org for upcoming events in your community.

Contact Information

Clean Water Campaign

www.cleanwatercampaign.com



Resources

Water-Wise Landscape Guide for the Georgia Piedmont
<http://northgeorgiawater.org>

WaterSense Labeled Irrigation Controllers
<https://www3.epa.gov/watersense>

Using Water Wisely with Automated Irrigation Systems
<http://extension.uga.edu/publications>

Landscaping with Native Plants in the Georgia Piedmont
<http://www.gnps.org>

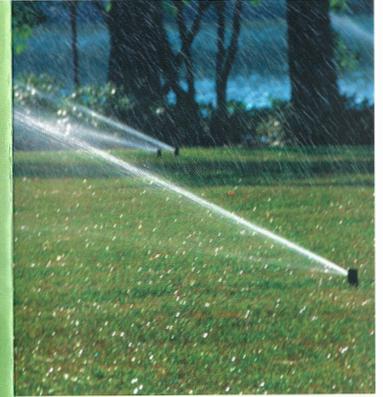


Metropolitan North Georgia Water Planning District

www.northgeorgiawater.org



Landscape Irrigation Watering Guide



Outdoor watering can make up a significant portion of your water use and cost you money! You can reduce your water bill and save water by ensuring that your irrigation system is as efficient as it can be! The Metropolitan North Georgia Water Planning District has prepared this guide to help you understand how to water efficiently with your irrigation system.

Water Saving Devices

- ◆ **Rain sensors** turn off the irrigation system during periods of rain. They are required on all new irrigation systems.
- ◆ **Soil Moisture Monitors** detect moisture levels at the root system and override scheduled irrigation if moisture is adequate.
- ◆ **Smart Irrigation Controllers** override scheduled irrigation when sufficient moisture is present as determined by soil moisture, rain, wind, slope, soil and plant type information. Some models can even adjust irrigation schedules based on weather forecasts using WiFi. WaterSense labeled irrigation controllers meet efficiency and performance criteria without overwatering and generating excess runoff.
- ◆ **Drip irrigation** applies water slowly and directly to plant roots through small, flexible plastic tubing. Drip irrigation uses less water than traditional sprinkler irrigation and costs less to install. Consider converting planting beds from sprinkler systems to one of these systems.



Watering in Georgia

- ◆ Georgia has year-round outdoor watering requirements. Outdoor watering for purposes of planting, growing, managing or maintaining residential landscapes is allowed only between the hours of 4 p.m. and 10 a.m. If the Georgia Environmental Protection Division declares a drought response, watering restrictions may apply. Go to epd.georgia.gov for more information.
- ◆ One inch of water a week is sufficient for all turf grasses grown in Georgia.
- ◆ If it rains, water less. North Georgia averages over 50 inches of rain per year. Homeowners with automated irrigation systems are most likely to over-water their landscapes.
- ◆ The Atlanta region features mainly clay soils that absorb water slowly. Clay can only absorb up to 1/2 inch of water per hour. Applying more than this quickly leads to puddling and water running off into the streets.

Factors to Consider	Lower Watering Needs	Higher
Plant type	Trees & Shrubs	Turf Grass
Plant Maturity	Established	Newly Planted or Seeded
Soil	Clay	Sandy or Gravelly
Sun Exposure	Shade	Full Sun
Mulch	Mulched	None
Irrigation System	Drip	Sprinkler



Water Tips

- ◆ Apply water only at the first signs of moisture stress. Signs include wilting, foot-printing (blades don't bounce back after walking across the lawn) or a dull discoloration.
- ◆ Hand watering small or isolated dry spots can extend the necessary time between watering the entire lawn.
- ◆ Water early in the morning and late at night when less water will be lost to evaporation.
- ◆ Use a rain gauge to measure weekly rain amounts.

How Much and When to Water

Test your system.

See how long your sprinklers need to run to apply one inch of water.

1. Place empty tuna cans (or similar) around your yard and run each zone in your system for 30 minutes.
2. Measure the amount of water in the cans with a ruler.
3. Determine how long your system would have to run to water 1 inch. For instance, if you measured 1/2 inch, it will take 1 hour to water 1 inch.

Set your timer.

Set your sprinkler timer to water one inch per week. Watering should be scheduled between the hours of 4 p.m. and 10 a.m.

- ◆ You may need to set your system on shorter, more frequent cycles to allow water to absorb and prevent puddling and runoff.
 - ◆ Each sprinkler system applies water at different rates. There are two main types of sprinkler heads:
1. Rotor sprinkler heads can apply 1/4 to 1/2 inch of water an hour and can usually run up to 20 minutes before runoff occurs. If your system applies 1/2 inch per hour, set your timer for five 6-minute cycles over the course of a week.



2. Spray sprinkler heads can apply 1 to 2 inches of water per hour and can usually run 6 to 8 minutes before runoff occurs. If your system applies 2 inches per hour, set your timer for five 6-minute cycles over the course of the week. Observe how your yard is accepting the water and adjust your timer as needed.



Are You In?

Even though you can turn your tap on and have water whenever you need it, we don't have an endless supply of water. Join the thousands of metro Atlanta residents who have taken the pledge to conserve water.

Tell us how you're saving water in and around your home or business, and find out how you can save more.



Take the water conservation pledge at www.MyDropCounts.org

Join the Society



Join the Society and pledge to significantly reduce your outdoor watering, or eliminate it altogether. www.MyDropCounts.org/jointhesociety

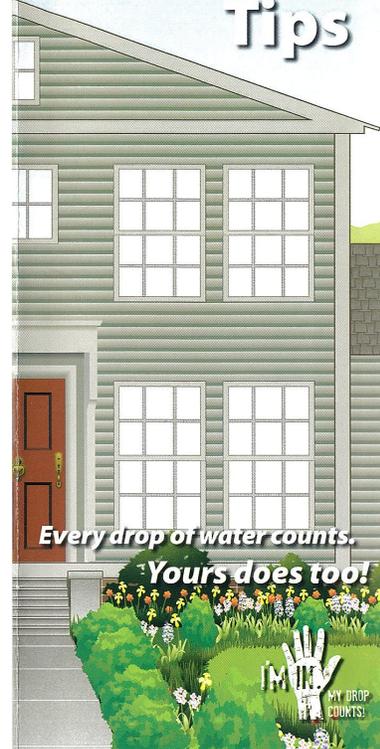


www.MyDropCounts.org

The My Drop Counts water conservation campaign is a program of the Metropolitan North Georgia Water Planning District.



Water Conservation Tips



Our Water Story

The rivers and lakes that supply our water are relatively small because we are located near the headwaters, or origins, of the streams that flow into them and we can only withdraw so much. We can't get much water from the ground because beneath our soil is a layer of thick granite!

Where does our water come from?



Rainfall in metro Atlanta varies from year to year. On average, our region receives 50 inches of rain annually, but periods of drought are not uncommon. Water conservation is important all year long.

Go to www.gadrought.org for the latest information on current drought status.

Bathroom

- Replace older toilets with high efficiency toilets. You may qualify for a toilet rebate. Go to northgeorgiawater.org/toiletrebate to learn more.
- Reduce your shower by 2 minutes and you can save 5 gallons per shower.
- Turn off the water while you shave or brush your teeth and you can save over 80 gallons a week.
- Check your toilet for leaks. Put a few drops of food coloring in your toilet tank and wait 15 minutes. If it seeps into your toilet bowl, you have a leak.

Kitchen

- Scrape your dishes instead of rinsing before placing in the dishwasher, and you can save 8 gallons a day.
- Limit dishwashing to FULL loads.
- Use the fridge to thaw frozen food as opposed to running water.

Around the House

- Look for EPA WaterSense and EnergyStar labeled products when shopping for new appliances and fixtures. These products have been independently tested and verified to save to least 20% more water compared to conventional products.
- Fix leaky faucets as soon as you notice them. A leak of 60 drips a minute wastes 192 gallons a month.
- Do only FULL loads of laundry. Remember to remove laundry right away to prevent souring and to avoid having to double wash.

We all need to use water wisely.



Lawn and Garden

- Water lawns and outdoor plants before 10 am and after 4 pm. It's Georgia law.
- More plants dies from over watering than from drought. One inch of rainfall or water every week in the growing season may be ideal for newer plants and lawns, but many plants, especially established plants, can survive on much less, even as little as one inch every 2-3 weeks.
- Adjust sprinklers so only your lawn is watered and not the house, sidewalk or street. Aim sprinklers more on your lawn and less on trees and shrubs.
- Install a rain sensor so your irrigation system won't run when it's raining.
- Landscape with native plants or plants that are well-adapted to our region, as they are more adaptable to periods of low rainfall.
- Water the base of the plant instead of leaves. This saves water and reduces disease.
- Group plants with the same watering needs together.
- Use a broom or leaf blower instead of a hose to clean your driveway, sidewalk and deck.
- Add mulch to plants. This helps hold water at the base of the plant and allows you to water less frequently.
- Be sure to inspect your irrigation system monthly to check for leaks and broken sprinkler heads.

26. COMMUNITY ULTRA HIGH EFFICIENCY PLUMBING CODES

DESCRIPTION OF MEASURE

The local government has adopted amendments to the Georgia State Minimum Standard Plumbing Code that requires new residential developments to install ultra-high efficiency plumbing fixtures. This measure addresses residential water efficiency by implementing fixture standards that go above and beyond the Georgia State Minimum Standard Plumbing Code, as amended by the Department of Community Affairs (DCA). Changes to the plumbing code results in greater efficiency for all new residential construction, decreases water demand and daily wear and tear to water supply conveyance infrastructure, and decreases the volume of water conveyed and treated by wastewater infrastructure. Local governments may make local amendments to code like the plumbing code if they satisfy the following requirements:

- The requirements in the proposed local amendments cannot be less stringent than the requirements in the state minimum standard code.
- The local requirements must be based on local climatic, geologic, topographic, or public safety factors.
- The legislative findings of the local governing body must identify the need for more stringent requirements.
- The local government must submit the proposed amendment to DCA 60 days prior to the proposed adoption of such an amendment.

DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the adopted ordinance amending the most recent version of the International Plumbing Code

RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a copy of the amended Georgia State Minimum Standard Plumbing Code as adopted. Provide a copy of the most recent documents used by inspectors to ensure the residential plumbing code is followed, including a checklist of what is inspected.

RESPONSE

The City will not be pursuing points for this measure at this time.

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