

**Board of Commissioners  
Agenda Item Transmittal Form  
Ordinance Transmittal Form**



**DISTRIBUTED**  
*12/05/24 to Patric Pearson*

<b>Type of Request: Resolution</b>		County Clerk Use Only Ordinance #:	
<input type="checkbox"/> <b>Submission Information</b>		<input type="checkbox"/> <b>Information</b>	
Contact Name: Director Kimbry Peek, Sr.  Department: Water Resources		Summary of Request: Adoption of Local Amendment to Chapter 98 Article II of the Code of Rockdale County, Georgia providing for modifying the Plumbing Code for Water Efficiency	
<input type="checkbox"/> <b>Department Director /Elected Official Signature</b>		<input type="checkbox"/> <b>Chief Operating Officer Signature</b>	
I have reviewed the attached, and it is approved as to substance.  Signature: <i>[Signature]</i> Date: 12/05/2024		I have reviewed the attached, and it is approved for processing.  Signature: _____ Date: _____	
<input type="checkbox"/> <b>County Attorney Signature</b>		<input type="checkbox"/> <b>Executive Director of Government Affairs/County Clerk Signature</b>	
I have reviewed the attached, and it is approved as to form.  Signature: _____ Date: _____		I have reviewed the attached, and it is approved for processing.  Signature: _____ Date: _____	

**Notes and Comments:**

- The governing body of Rockdale County, Georgia finds that based on local climatic, geographic, topographic and public safety factors included in the Metro Water District's plans; it is justified in adopting local water efficiency requirements more stringent than the Georgia Plumbing Code.
- The Rockdale County Government is considering codifying these water efficiency requirements in the local code as an amendment to the Georgia Plumbing Code in the form of the of the Local Amendments to Plumbing Code shown in Attachment A.

**Attachment A: Metro Water District – Water Efficiency Code Requirements Amendment**

*2024-651*

STATE OF GEORGIA

COUNTY OF ROCKDALE

**A RESOLUTION AUTHORIZING THE ADOPTION OF LOCAL AMENDMENT TO CHAPTER 98 ARTICLE II OF THE CODE OF ROCKDALE COUNTY, GEORGIA PROVIDING FOR MODIFYING THE PLUMBING CODE FOR WATER EFFICIENCY**

**WHEREAS** the current minimum water efficiency requirements for buildings in the Rockdale County Government jurisdiction is the Georgia State Minimum Standard Plumbing Code, Georgia Plumbing Code, as approved and adopted by the Georgia Department of Community Affairs (DCA) from time to time.

**WHEREAS**, Rockdale County, like all local governments in the State of Georgia, is authorized under O.C.G.A. § 8-2-25(c) to adopt local requirements that are more stringent than the Georgia Plumbing Code based on local climatic, geologic, topographic, or public safety factors.

**WHEREAS**, Rockdale County has followed the required procedures in O.C.G.A. § 8-2-25(c) for local adoption of the Local Amendments to Plumbing Code for water efficiency, and DCA has made no recommendation as to whether they be adopted.

**WHEREAS**, the long-term availability, reliability, and resiliency of water supplies is a critical need of Rockdale County and water efficiency is essential to meeting this need.

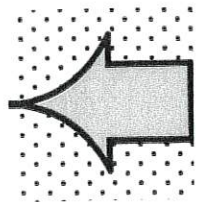
**WHEREAS**, Rockdale County is adopting the Local Amendments to Plumbing Code, to meet this critical need and to comply with the requirements of Metropolitan North Georgia Water Planning District's 2022 Water Resources Plan in the WSWC-8 Action Item on Metro Water District - Water Efficiency Code Requirements into Chapter 98, Article II, Division 1, Sections 41-47 of the Code of Rockdale County, Georgia.

**NOW, THEREFORE, BE IT RESOLVED** and authorized by the Board of Commissioners of Rockdale County, Georgia, finding that based on local climatic, geographic, topographic, and public safety factors, it is justified in adopting the water efficiency requirements in the Local Amendments to Plumbing Code that are more stringent than the Georgia Plumbing Code.

**BE IT FURTHER RESOLVED** that the Rockdale County Government has followed the required procedures in O.C.G.A. § 8-2-25(c) and hereby adopts the Local Amendments to Plumbing Code, which took effect on January 1, 2024.

**SO RESOLVED**, this \_\_\_\_ day of \_\_\_\_\_, 2024.

Rockdale County, Georgia  
Board of Commissioners



By: \_\_\_\_\_  
Oz Nesbitt, Sr., Chairman

By: \_\_\_\_\_  
Sherri L. Washington, Post 1

By: \_\_\_\_\_  
Dr. Doreen L. Williams, Post 2

Attest:  
By: \_\_\_\_\_  
Jennifer Rutledge, County Clerk

Approved as to form:  
By: \_\_\_\_\_  
M. Qader A. Baig, County Attorney

2024-651

Metro Water District — Water Efficiency Code Requirements Amendment

Part I (RELATED LAWS), Subpart A (GENERAL ORDINANCES), Article II (WATER SYSTEM), Division 1 (STANDARDS FOR DELIVERY OF WATER SERVICES), Sections 98-41 through 98-47.

Sec. 98-41. – Water Efficiency

- (a) Kitchen faucet or kitchen faucet replacement aerator. A kitchen faucet or kitchen faucet replacement aerator that allows a flow of no more than 1.8 gallons of water per minute at a pressure of 60 pounds per square inch and conforms to the applicable requirements in ASME A112.18.1/CSA B125.1.
- (b) Lavatory faucet or lavatory faucet replacement aerator. A lavatory faucet or lavatory faucet replacement aerator that allows a flow of no more than 1.2 gallons per minute at a pressure of 60 pounds per square inch and is listed in the Water Sense High-Efficiency Lavatory Faucet Specification.
- (c) Landscape irrigation.
  - (1) Flow sensor. An inline device in a landscape irrigation system that produces a repeatable signal proportional to flow rate.
  - (2) Lawn or Landscape Irrigation system. An assembly of component parts that is permanently installed for the controlled distribution of water to irrigate landscapes such as ground cover, trees, shrubs, and other plants. Lawn and Landscape Irrigation Systems refer to the same system.
  - (3) Master shut-off valve. An automatic valve such as a gate valve, ball valve, or butterfly valve) installed as part of the landscape irrigation system capable of being automatically closed by the Water Sense controller. When this valve is closed water will not be supplied to the landscape irrigation system.
  - (4) Pressure regulating device. A device designed to maintain pressure within the landscape irrigation system at the manufacturer's recommended operating pressure and that protects against sudden spikes or drops from the water source.

- (5) Rain sensor shut-off. An electric device that detects and measures rainfall amounts and overrides the cycle of a landscape irrigation system so as to turn off such system when a predetermined amount of rain has fallen.
  - (6) Water Sense irrigation controller. Is a weather-based or soil moisture-based irrigation controller labeled under the U.S. Environmental Protection Agency's Water Sense program, which includes standalone controllers, add-on devices, and plug-in devices that use current weather data as a basis for scheduling irrigation.
  - (7) Water Sense spray sprinkler bodies. A sprinkler body with integral pressure regulation, generating optimal water spray and coverage labeled under the U.S. Environmental Protection Agency's Water Sense program.
- (d) Shower head. A showerhead that allows a flow of no more than the average of 2.0 gallons of water per minute at 80 pounds per square inch of pressure, is listed in the Water Sense Specification for Showerheads and meets the US Department Definition of Energy definition of showerhead.

Sec. 98-42.- Maximum Flow and Water Consumption.

Consistent with the general approach taken in Georgia, these Maximum Flow and Water Consumption requirements and related definitions in Section 98 of the plumbing code shall apply to all plumbing systems, including those in one- and two-family dwellings. The maximum water consumption flow rates and quantities for all plumbing fixtures and fixture fittings shall be in accordance with Table 98-42.1. Exceptions are blowout design water closets having a water consumption not greater than 3 1/2 gallons (13 L) per flushing cycle, vegetable sprays, clinical sinks having a water consumption not greater than 4 1/2 gallons (17 L) per flushing cycle, laundry tray sinks or service sinks and emergency showers and eye washing stations.

Table 98-42.1. - Maximum Flow Rates and Consumption for Plumbing Fixtures and Fixture Fittings

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR Quantity
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Lavatory faucet and replacement aerators, private	Water Sense Labeled & 1.2 gpm at 60 psi
Lavatory faucet, public (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Showerhead	Water Sense Labeled & 2.0 gpm at 80 psi
kitchen faucet and replacement aerators	1.8 gpm at 60 psi <sup>g</sup>
Urinal	0.5 gallon per flushing cycle <sup>f</sup>
Water closet	1.28 gallons per flushing cycle <sup>c d e f</sup>

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/m,

1 pound per square inch = 6.895 kPa.

- (a) A hand-held shower spray is a shower head. As a point of clarification, multiple shower heads may be installed in a single shower enclosure so long as each shower head individually meets the maximum flow rate, the Water Sense requirements, and the US Department of Energy definition of the showerhead. However, multiple shower heads are not recommended for water efficiency purposes.
- (b) Consumption tolerances shall be determined from referenced standards.
- (c) For flushometer valves and flushometer tanks, the average flush volume shall not exceed 1.28
- (d) For single flush water closets, including gravity, pressure assisted and electro-hydraulic tank types, the average flush volume shall not exceed 1.28 gallons.
- (e) For dual flush water closets, the average flush volume of two reduced flushes and one full flush shall not exceed 1.28 gallons.
- (f) See 2014 GA Amendment to Section 301.1.2 'Waiver from requirements of high-efficiency plumbing fixtures'.

- (g) Kitchen faucets are permitted to temporarily increase the flow above the maximum rate, but not to exceed 2.2 gpm (8.3 L/m) at 60 psi (414 kPa) and must revert to a maximum flow rate of 1.8 gpm (6.8 L/m) at 60 psi (414 kPa) upon valve closure.

Sec. 98-43.- Clothes Washers.

Residential clothes washers shall be in accordance with the Energy Star program requirements.

Sec. 98-44. - Cooling Tower Water Efficiency.

- (a) Once-Through Cooling. Once-through cooling using potable water is prohibited.
- (b) Cooling Towers and Evaporative Coolers. Cooling towers and evaporative coolers shall be equipped with makeup water and blow-down meters, conductivity controllers and overflow alarms. Cooling towers shall be equipped with efficiency drift eliminators that achieve drift reduction to 0.002 percent of the circulated water volume for counterflow towers and 0.005 percent for crossflow towers.
- (c) Cooling Tower Makeup Water. Water used for air conditioning, and cooling towers shall not be discharged where the hardness of the basin water is less than 1500 mg/L. Exception: Where any of the following conditions of the basin water are present: total suspended solids exceed 25 ppm, CaCO<sub>3</sub> exceeds 600 ppm, chlorides exceed 250 ppm, sulfates exceed 250 ppm, or silica exceeds 150 ppm.

Sec. 98-45. - Landscape Irrigation System Efficiency Requirements.

The requirements in Section 98-45 apply to all new landscape irrigation systems connected to the public water system except those (a) used for agricultural operations as defined in the Official Code of Georgia Section 1-3-3, (b) used for golf courses, and (c) dependent upon a nonpublic water source. Nothing in this Code or this Section 98-45 is intended to require that landscape irrigation systems must be installed at all premises. The landscape irrigation efficiency requirements in this Section 98-45 apply only when someone voluntarily chooses or is otherwise required by some requirement beyond this Code, to install a landscape irrigation system on premises.

- (a) Avoiding Water Waste Through Design. All new landscape irrigation systems shall adhere to the following design standards:

- (1) Pop-up type sprinkler heads shall pop up to a height above vegetation level of not less than four (4) inches above the soil level when emitting water.
- (2) Pop-up spray heads or rotary sprinkler heads must direct flow away from any adjacent surfaces and must not be installed closer than four inches from impervious surfaces.
- (3) Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or by other means that produce no overspray or runoff.
- (4) Narrow or irregular shaped landscaped areas, less than four (4) feet in any direction across opposing boundaries shall not be irrigated by any irrigation emission device except sub-surface or low flow emitters with flow rates not to exceed 6.3 gallons per hour.

(b) Landscape Irrigation System Required Components. All new landscape irrigation systems shall include the following components:

- (1) A rain sensor shut-off installed in an area that is unobstructed by trees, roof overhangs, or anything else that might block rain from triggering the rain sensor shutoff.
- (2) A master shut-off valve for each controller is installed as close as possible to the point of connection of the water but downstream of the backflow prevention assembly.
- (3) Pressure-regulating devices such as valve pressure regulators, sprinkler head pressure regulators, inline pressure regulators, Water Sense spray sprinkler bodies or other devices shall be installed as needed to achieve the manufacturer's recommended pressure range at the emission devices for optimal performance. 4. Except for landscape irrigation systems serving a single-family home, all other systems must also include:
  - i. a Water Sense irrigation controller; and
  - ii. at least one flow sensor, which must be installed at or near the supply point of the landscape irrigation system and shall interface with the control system, when connected to the Water Sense controller will detect and report high flow conditions to such controller and automatically shut master valves. The flow sensor

serves to aid in detecting leaks or abnormal flow conditions by suspending irrigation. High flow conditions should be consistent with manufacturers' recommendations and specifications.

Sec. 98-46. – Nonpotable Water Systems.

Connections to the water supply. Reclaimed water provided from a reclaimed wastewater treatment system facility permitted by the Environmental Protection Division may be used to supply water closets, urinals, trap primers for floor drains and floor sinks, water features, and other uses approved by the Authority Having Jurisdiction, in motels, hotels, apartment and condominium buildings, and commercial, industrial, and institutional buildings, where the individual guest or occupant does not have access to plumbing. Also, other systems that may use a lesser quality of water than potable water such as water chillers, carwashes, or an industrial process may be supplied with reclaimed water provided from a reclaimed wastewater treatment facility permitted by the Environmental Protection Division. The use of reclaimed water sourced from any new private reclaimed wastewater treatment system for outdoor irrigation shall be limited to golf courses and agriculture operations as defined in the Official Code of Georgia Section 1-3-3, and such reclaimed water shall not be approved for use for irrigating any other outdoor landscape such as ground cover, tree, shrubs, or other plants. These limitations do not apply to reclaimed water sourced from existing private reclaimed water systems or from existing or new, governmentally owned reclaimed wastewater treatment systems.

Sec. 98-47. – Water Piping System Design.

Because of the variable conditions encountered in hydraulic design, it is impractical to specify definite and detailed rules for the sizing of the water piping system. Accordingly, other sizing or design methods conforming to good engineering practice standards are acceptable alternatives to those presented herein. Without limiting the foregoing, such acceptable design methods may include for multi-family buildings the Peak Water Demand Calculator from the IAPMO/ANSI 2020 Water Efficiency and Sanitation Standard for the Built Environment, which accounts for the demands of water-conserving plumbing fixtures, fixture fittings, and appliances. If future versions of the Peak Water Demand Calculator include other building types, such as commercial, such updated version shall be an acceptable design method.