



## Metropolitan North Georgia Water Planning District

International Tower | 229 Peachtree St., NE | Suite 100 | Atlanta, GA 30303

### **Public Notice October 8, 2020**

**Re:** Proposed Amendment to the Water Resource Management Plan – Appendix B, Fayette County - Water

**Submitted By:** City of Fayetteville

**General Description:** The Metropolitan North Georgia Water Planning District received a request from the City of Fayetteville on September 29, 2020 to modify the Water Resource Management Plan.

The City of Fayetteville requests that Appendix B, Fayette County - Water be revised to include an expanded water supply capacity from groundwater sources from 0.937 to 1.3 MGD in 2025 and 2.0 in 2050 as well as remove the planned future capacity for the Fayetteville WTP. These changes will reduce the need for purchased water and account for growth to 2050 based on a City forecasted growth rate of two percent per year. Additional background is provided in the attached letter and proposed redlines to Appendix B.

MAYOR  
Edward J. Johnson, Jr.

CITY MANAGER  
Ray Gibson

CITY CLERK  
Anne Barksdale



COUNCIL  
Scott Stacy,  
Mayor Pro Tem  
T. Joe Clark  
Richard J. Hoffman  
Darryl Langford  
Paul C. Oddo, Jr.

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9-29-2020

Re: Amendment to Update Appendix B

To Whom It May Concern;

The City of Fayetteville respectfully requests a change to Appendix B of the Metro Districts Plan to update the Summary of Planned Sources for the Fayetteville Water System. The City of Fayetteville is not seeking a renewal of the 3.0 MGD withdrawal permit from Whitewater Creek due to the in-effectiveness of operation of the plant and is seeking to modify our permitted Groundwater permit from .937 MGD to 1.3 MGD from the Crystalline Rock Aquifer. The City of Fayetteville's current system demand in the winter months is approximately 1.2 MGD and we believe that with the increase in the withdrawal the City will be less reliant on purchasing water from Fayette County Water System. Without an increase in the permit withdrawal limits the City will have to limit operation of the wells due to the yields and we anticipate that we will have to purchase \$30,000 worth of water per month from Fayette County Water System. Due to these factors, the City is requesting an expedited review of the plan modification to help in efficiency and reduce the costs for operation over the winter months. If approved, the City is requesting the following changes to the Appendix B of the Plan: By 2025 Fayetteville WTP 0 MGD By 2050 0 MGD-Groundwater/Fayetteville By 2025 1.3 MGD Groundwater/Fayetteville By 2050 2 MGD. We also request that the Capital Projects Section of the plan be removed which discusses that the City of Fayetteville will construct a reservoir. The City has explored this project and it is not cost effective for the City to pursue.

We appreciate the consideration of the request of the Amendment to Appendix B as we strive to serve our community in the most efficient, cost effective manner possible.

If you have any questions, please feel free to contact me at [chindman@fayetteville-ga.gov](mailto:chindman@fayetteville-ga.gov) or 770-460-4664.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Hindman".

Chris Hindman  
Director of Public Services

Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal Monthly Average (MGD)	Planned 2050 Withdrawal (MGD)	
			Monthly (Note 1)	Peak Day
Lake Horton (Horton Creek)	Fayette	14.0	23.3	31.0
Flint River		Fills Lake Horton only		
Whitewater Creek				
Flat Creek (Lake Kedron/Peachtree)				
Lake McIntosh				
Whitewater Creek	Fayetteville	3.0	0.0	0.0
Crystalline Rock Aquifer	Fayetteville	0.937	0.937	0.937
Crystalline Rock Aquifer	Fayette	0.875	0.875	0.875
<b>Total Withdrawal (MGD)</b>		<b>35.3</b>	<b>25.1</b>	<b>32.8</b>

Notes:

(1) Monthly average day is 1.2 times annual average day.

Summary of Needs

Water Demands & Capacities	2025 Peak Day (Note 2) (PD-MGD)		2050 Peak Day (Note 2) (PD-MGD)	
	Scenario 1	Scenario 2	Scenario 1	Scenario 2
Fayette County Needs	20.6	20.5	26.7	22.5
Self Supplied	-2.1	-2.1	-1.6	-1.6
<b>Total Projected Demand from Facilities (PD-MGD)</b>	<b>18.5</b>	<b>18.4</b>	<b>25.0</b>	<b>20.8</b>
Treatment Capacity (Note 3)	28.5		32.8	
<b>Total Projected Demand from Facilities (AAD-MGD)</b>	Scenario 1 2025 (AAD-MGD)	Scenario 2 2025 (AAD-MGD)	Scenario 1 2050 (AAD-MGD)	Scenario 2 2050 (AAD-MGD)
	11.6	11.5	15.6	13.0

Notes:

(2) Peak day is 1.6 times annual average day.

(3) Scenario 1 is being used for the phasing plan below.

Phasing Plan

Facilities (Note 4)	Existing (2016)	By 2025	By 2050
	Permitted Plant Capacity (PD-MGD)	Plant Capacity at End of Period (PD-MGD)	Plant Capacity at End of Period (PD-MGD)
<b>Flint Basin</b>			
Fayette County Crosstown WTP	13.5	13.5	31.0
South Fayette WTP	9.2	9.2	
Fayetteville WTP	3.0	4.0	
<b>Groundwater</b>			
Fayetteville	0.937	0.937	0.937
Fayette County	0.875	0.875	0.875
<b>Total Capacity (PD-MGD)</b>	<b>27.5</b>	<b>28.5</b>	<b>32.8</b>

Notes:

(4) The schedule shown above is intended to be a general guideline to identify general expansion needs. Expansion capacity may be required sooner or later than indicated depending on local population and employment growth, water service extensions and other planning variables. Specific conditions for withdrawal and operation permits will be determined by Georgia EPD.

Capital Projects

The City of Fayetteville should finalize the planning and development of the Whitewater Creek Reservoir. This facility would provide Fayetteville with a reliable water source and allow their WTP to operate through droughts, which in past years have forced the shut-down of the WTP. The Fayetteville WTP is currently rated to run a 4 PDD-MGD but is limited by its withdrawals permit of 3 PDD-MGD.

Non-Capital Programs

The following non-capital programs are specific to Fayette County. These programs are in addition to those that apply to all counties within the Metro Water District. Maintain interconnections and water supply agreements with City of Atlanta and Clayton County.

Summary of Planned Sources

Source	Local Water Provider	Current Permitted Withdrawal Monthly Average (MGD)	Planned 2050 Withdrawal (MGD)	
			Monthly (Note 1)	Peak Day
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Flint River		Fills Lake Horton only		
Whitewater Creek				
Flat Creek (Lake Kedron/Peachtree)				
Lake McIntosh				
Whitewater Creek	Fayetteville	3.0	0.0	0.0
Crystalline Rock Aquifer	Fayetteville	0.937	2.0	2.0
Crystalline Rock Aquifer	Fayette	0.875	0.875	0.875
<b>Total Withdrawal (MGD)</b>		<b>35.3</b>	<b>23.1</b>	<b>29.9</b>

Notes:

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	Scenario 1	Scenario 2	Scenario 1	Scenario 2
Fayette County Needs	20.6	20.5	26.7	22.5
Self Supplied	-2.1	-2.1	-1.6	-1.6
<b>Total Projected Demand from Facilities (PD-MGD)</b>	<b>18.5</b>	<b>18.4</b>	<b>25.0</b>	<b>20.8</b>
Treatment Capacity (Note 3)	24.9		29.9	
<b>Total Projected Demand from Facilities (AAD-MGD)</b>	Scenario 1 2025 (AAD-MGD)	Scenario 2 2025 (AAD-MGD)	Scenario 1 2050 (AAD-MGD)	Scenario 2 2050 (AAD-MGD)
	11.6	11.5	15.6	13.0

Notes:

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Phasing Plan

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Fayette County	0.875	0.875	0.875
<b>Total Capacity (PD-MGD)</b>	<b>27.5</b>	<b>24.9</b>	<b>29.9</b>

Notes:

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