Durham County (Rougemont)

2025

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1. System Information

Contact Information

Complete

Water System Name:	Durham County (Rougemont)	PWSID:	40-32-018
Mailing Address:	5926 Highway 55 East Durham, NC 27713	Ownership:	County
Contact Person:	Stephanie Brixey	Title:	Deputy Director
Phone:	919-560-9034	Cell/Mobile:	--

Distribution System

Line Type	Size Range (Inches)	Estimated % of lines
Ductile Iron	6	100.00 %

What are the estimated total miles of distribution system lines? **2 Miles**

How many feet of distribution lines were replaced during 2025? **0 Feet**

How many feet of new water mains were added during 2025? **0 Feet**

How many meters were replaced in 2025? 0

How old are the oldest meters in this system? **9 Year(s)**

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? **1**

What is this system's finished water storage capacity? **0.0200 Million Gallons**

Has water pressure been inadequate in any part of the system since last update? *Line breaks that were repaired quickly should not be included.* **No**

Programs

Does this system have a program to work or flush hydrants? **No**

Does this system have a valve exercise program? **Yes, Annually**

Does this system have a cross-connection program? **Yes**

Does this system have a program to replace meters? **No**

Does this system have a plumbing retrofit program? **No**

Does this system have an active water conservation public education program? **No**

Does this system have a leak detection program? **Yes**

Each meter will give a leak message if flow has been continuous for a 24-hour period.

Water Conservation

What type of rate structure is used? **Increasing Block**

How much reclaimed water does this system use? **0.0000 MGD** For how many connections? **0**

Does this system have an interconnection with another system capable of providing water in an emergency? **No**

An interconnection is not feasible based on the number of users and the distance an interconnection would need to be.

2. Water Use Information

Service Area

Sub-Basin(s)	% of Service Population	County(s)	% of Service Population
Neuse River (10-1)	**100 %**	**Durham**	**100 %**

What was the year-round population served in 2025? **65**

Has this system acquired another system since last report? **No**

The service area has not changed and the maps on file are correct.

Water Use by Type

Type of Use	Metered Connections	Metered Average Use (MGD)	Non-Metered Connections	Non-Metered Estimated Use (MGD)
Residential	**25**	**0.0022**	**0**	**0.0000**
Commercial	**5**	**0.0006**	**0**	**0.0000**
Industrial	**0**	**0.0000**	**0**	**0.0000**
Institutional	**3**	**0.0001**	**0**	**0.0000**

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? **0.0001 MGD**

System process water is flushing of the distribution line and mixing of chemicals (ex. soda ash) as needed.

3. Water Supply Sources

Monthly Withdrawals & Purchases

	Average Daily Use (MGD)	Max Day Use (MGD)		Average Daily Use (MGD)	Max Day Use (MGD)		Average Daily Use (MGD)	Max Day Use (MGD)
Jan	**0.0028**	**0.0163**	May	**0.0029**	**0.0151**	Sep	**0.0026**	**0.0110**
Feb	**0.0045**	**0.0193**	Jun	**0.0029**	**0.0143**	Oct	**0.0025**	**0.0129**
Mar	**0.0030**	**0.0211**	Jul	**0.0039**	**0.0216**	Nov	**0.0026**	**0.0132**
Apr	**0.0026**	**0.0118**	Aug	**0.0041**	**0.0323**	Dec	**0.0025**	**0.0118**

Ground Water Sources

Name or Number	Average Daily Withdrawal (MGD)		Max Day Withdrawal (MGD)	12-Hour Supply (MGD)	CUA Reduction	Year Offline	Use Type
	MGD	Days Used					
Well A	**0.0017**	**365**		**0.0144**			**Regular**
Well B	**0.0014**	**365**		**0.0108**			**Regular**

Ground Water Sources (continued)

Name or Number	Well Depth (Feet)	Casing Depth (Feet)	Screen Depth (Feet)		Well Diameter (Inches)	Pump Intake Depth (Feet)	Metered?
			Top	Bottom			
Well A							**Yes**
Well B							**Yes**

Are ground water levels monitored? **No,**

Does this system have a wellhead protection program? **No**

Water Treatment Plants

Plant Name	Permitted Capacity (MGD)	Is Raw Water Metered?	Is Finished Water Ouput Metered?	Source

Rougemont Water Plant	0.0252	Yes	No	Well A and B

Did average daily water production exceed 80% of approved plant capacity for five consecutive days during 2025? **No**

If yes, was any water conservation implemented?

Did average daily water production exceed 90% of approved plant capacity for five consecutive days during 2025? **No**

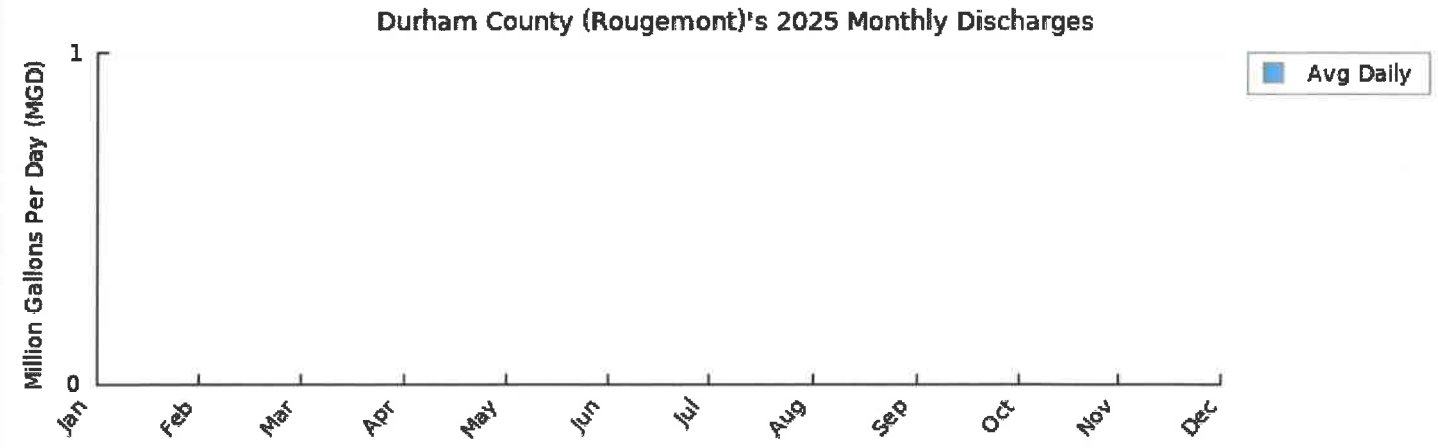
If yes, was any water conservation implemented?

Are peak day demands expected to exceed the water treatment plant capacity in the next 10 years? **No**

4. Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.0000	May	0.0000	Sep	0.0000
Feb	0.0000	Jun	0.0000	Oct	0.0000
Mar	0.0000	Jul	0.0000	Nov	0.0000
Apr	0.0000	Aug	0.0000	Dec	0.0000



How many sewer connections does this system have? **0**

How many water service connections with septic systems does this system have? **33**

Are there plans to build or expand wastewater treatment facilities in the next 10 years? **No**

5. Planning

Projections

	2025	2030	2040	2050	2060	2070
Year-Round Population	65	65	65	65	65	65
Seasonal Population	0	0	0	0	0	0
Residential	0.0022	0.0024	0.0024	0.0024	0.0024	0.0024
Commercial	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Industrial	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Institutional	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
System Process	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Unaccounted-for	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Demand v/s Percent of Supply

	2025	2030	2040	2050	2060	2070
Surface Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ground Water Supply	0.0252	0.0252	0.0252	0.0252	0.0252	0.0252

Purchases	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Future Supplies		0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MGD)	0.0252	0.0252	0.0252	0.0252	0.0252	0.0252
Service Area Demand	0.0031	0.0033	0.0033	0.0033	0.0033	0.0033
Sales	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Future Sales		0.0000	0.0000	0.0000	0.0000	0.0000
Total Demand (MGD)	0.0031	0.0033	0.0033	0.0033	0.0033	0.0033
Demand as Percent of Supply	12%	13%	13%	13%	13%	13%

The purpose of the above chart is to show a general indication of how the long-term per capita water demand changes over time. The per capita water demand may actually be different than indicated due to seasonal populations and the accuracy of data submitted. Water systems that have calculated long-term per capita water demand based on a methodology that produces different results may submit their information in the notes field.

Your long-term water demand is 34 gallons per capita per day. What demand management practices do you plan to implement to reduce the per capita water demand (i.e. conduct regular water audits, implement a plumbing retrofit program, employ practices such as rainwater harvesting or reclaimed water)? If these practices are covered elsewhere in your plan, indicate where the practices are discussed here. **No Changes.**

Are there other demand management practices you will implement to reduce your future supply needs? **No changes.**

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs? **No changes.**

How does the water system intend to implement the demand management and supply planning components above? **No changes.**

Additional Information

Has this system participated in regional water supply or water use planning? **No**

What major water supply reports or studies were used for planning?

Please describe any other needs or issues regarding your water supply sources, any water system deficiencies or needed improvements (storage, treatment, etc.) or your ability to meet present and future water needs. Include both quantity and quality considerations, as well as financial, technical, managerial, permitting, and compliance issues:

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