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Secretary
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Director

NORTH CAROLINA
Environmental Quality

March 10, 2025

Mark Delehant
General Services Director
Burke County
P.O. Box 1217
Hildebran, NC 28637

Subject: LWSP Meet Minimum Criteria
Burke County Water System
PWSID#: 01-12-065
Burke County

Dear Mr. Delehant,

This letter is to notify you that our staff has reviewed the information contained in the 2024 Local Water Supply Plan (LWSP) update submitted by your office. Since all the required information is complete, the LWSP for the Burke County Water System hereby meets the minimum criteria established in North Carolina General Statute 143-355(l).

Your water system's 2024 LWSP is now viewable online from the LWSP website found at: https://www.ncwater.org/Water_Supply_Planning/Local_Water_Supply_Plan/search.php. The plan has been made available after our best efforts to screen any errors. As a final check, please review and report any mistakes or omissions to the review engineer. Unless notified otherwise, the Division of Water Resources considers your 2024 LWSP complete.

The 2024 LWSP must next be adopted by your water system's governing board; a model LWSP resolution is available online on the right side of the page in the Forms and Docs section at: https://www.ncwater.org/Water_Supply_Planning/Local_Water_Supply_Plan/learn.php. A copy of the signed resolution must be submitted to Linwood Peele, Water Supply Planning Section Supervisor, at the address printed at the bottom of this letter. The LWSP cannot be considered compliant with the requirements of NCGS 143-355(l) until an adopted resolution is received.

Thank you very much for your efforts to provide your customers with a safe and reliable supply of drinking water. We look forward to continuing to work with you in these efforts. Please contact Louis Murray at **louis.murray@deq.nc.gov** or (919)707-9017, or Linwood Peele at **linwood.peele@deq.nc.gov** or (919) 707-9024, if we can be of further assistance.

Sincerely,

Linwood Peele, Water Supply Planning
Branch Head
Division of Water Resources, NCDEQ

Burke County

2024

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled **PROVISIONAL** have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or limitations of usage of this data should be directed to the water system and/or DWR.

1. System Information

Complete

Contact Information

Water System Name:	Burke County	PWSID:	01-12-065
Mailing Address:	P.O. Box 1217 Hildebran, NC 28637	Ownership:	County
Contact Person:	Mark Delehant	Title:	General Services Director
Phone:	828-764-9062	Cell/Mobile:	--
Secondary Contact:	DONALD BARKER	Phone:	828-764-9068
Mailing Address:	P.O. Box 1217 Hildebran, NC 28637	Cell/Mobile:	--

Distribution System

Line Type	Size Range (Inches)	Estimated % of lines
Ductile Iron	6-12	5.00 %
Polyvinyl Chloride	2-12	95.00 %

What are the estimated total miles of distribution system lines? 104 Miles

How many feet of distribution lines were replaced during 2024? 1,050 Feet

How many feet of new water mains were added during 2024? 0 Feet

How many meters were replaced in 2024? 76

How old are the oldest meters in this system? 15 Year(s)

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? 3

What is this system's finished water storage capacity? 0.7061 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? Yes, Monthly

Does this system have a valve exercise program? Yes, As Needed

Does this system have a cross-connection program? Yes

Does this system have a program to replace meters? Yes

Does this system have a plumbing retrofit program? No

Does this system have an active water conservation public education program? Yes

Does this system have a leak detection program? Yes

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? Yes

WE ARE A PURCHASED WATER SYSTEM AND BUY WATER FROM OTHER MUNICIPALITIES. WE ARE ABLE TO PROVIDE WATER TO STOARGE TANKS FROM DIFFERENT DIRECTIONS IN THE EVENT OF AN EMERGENCY.

2. Water Use Information

Service Area

Sub-Basin(s)	% of Service Population	County(s)	% of Service Population
Catawba River (03-1)	98 %	Burke	100 %
South Fork Catawba River (03-2)	2 %		

What was the year-round population served in 2024? 5,901

What was the seasonal population and months served in 2024? (if applicable) 50 (Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec)

Has this system acquired another system since last report? No

Water Use by Type

Type of Use	Metered Connections	Metered Average Use (MGD)	Non-Metered Connections	Non-Metered Estimated Use (MGD)
Residential	2,173	0.2424	0	0.0000
Commercial	43	0.0490	0	0.0000
Industrial	8	0.0390	0	0.0000
Institutional	27	0.0076	0	0.0000

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? 0.0700 MGD

Water Sales

Purchaser	PWSID	Average Daily Sold (MGD)	Days Used	Contract MGD	Contract Expiration	Contract Recurring	Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
Rhodhiss	01-14-035	0.0025	366			Yes	Yes	8	Regular

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	0.4834		May	0.4878		Sep	0.4625	
Feb	0.5818		Jun	0.6324		Oct	0.3437	
Mar	0.4903		Jul	0.4467		Nov	0.4430	
Apr	0.4941		Aug	0.4542		Dec	0.3836	

WATER PURCHASES FROM OTHER SYSTEMS.



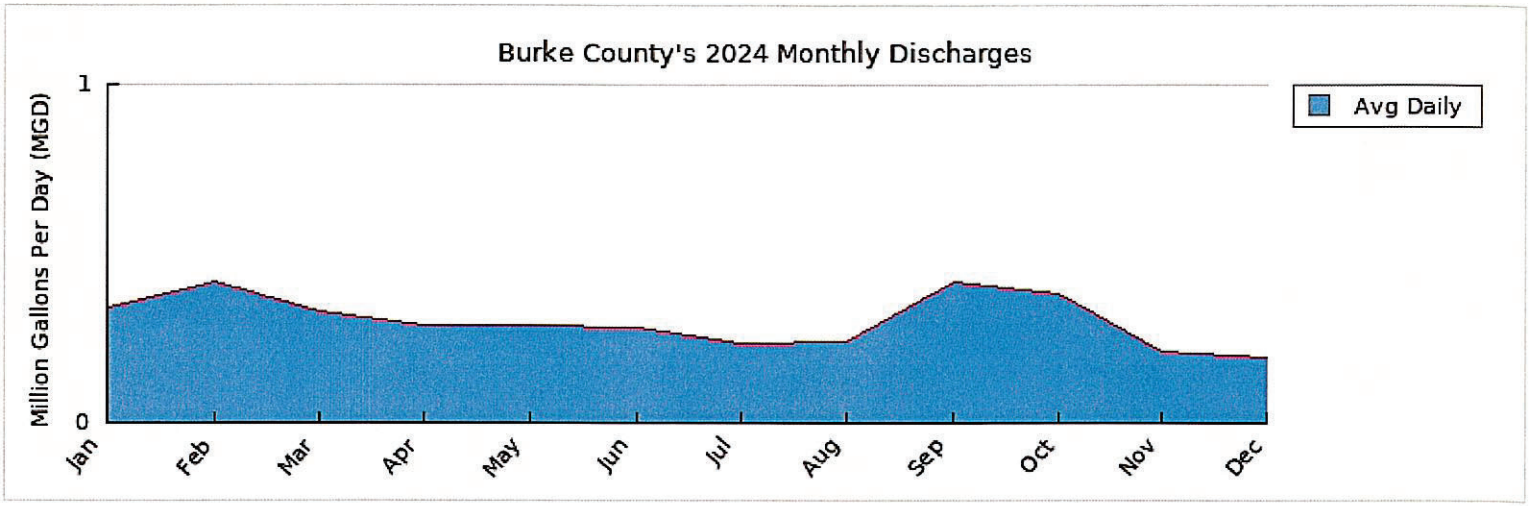
Water Purchases From Other Systems

Seller	PWSID	Average Daily Purchased (MGD)	Days Used	Contract MGD	Contract Expiration	Contract Recurring	Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
Icard Township WC	01-12-060	0.1141	366	0.1000		Yes	Yes	8	Regular
Long View	01-18-025	0.0307	366	0.0000		Yes	Yes	12	Regular
Morganton	01-12-015	0.2699	366	0.3000		Yes	Yes	8	Regular
Valdese	01-12-010	0.0624	366	0.7000		Yes	Yes	8	Regular

4. Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.3426	May	0.2903	Sep	0.4176
Feb	0.4189	Jun	0.2826	Oct	0.3806
Mar	0.3319	Jul	0.2365	Nov	0.2099
Apr	0.2866	Aug	0.2407	Dec	0.1949



How many sewer connections does this system have? 192

How many water service connections with septic systems does this system have? 2,169

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

BURKE COUNTY DOES NOT DISCHARGE TO A STREAM OR RIVER. ALL WASTEWATER GOES TO A MUNICIPAL WASTEWATER TREATMENT PLANT NOT OWNED BY BURKE COUNTY.

Wastewater Permits

Permit Number	Type	Permitted Capacity (MGD)	Design Capacity (MGD)	Average Annual Daily Discharge (MGD)	Maximum Day Discharge (MGD)	Receiving Stream	Receiving Basin
WQCS00324	CS	0.0000	0.0000	0.0000		CATAWBA	South Fork Catawba River (03-2)

BURKE COUNTY HOLDS A COLLECTION SYSTEM PERMIT ONLY.

Wastewater Interconnections

Water System	PWSID	Type	Average Daily Amount		Contract Maximum (MGD)
			MGD	Days Used	
Hickory	01-18-010	Discharging	0.1360	366	0.5000
Valdese	01-12-010	Discharging	0.1670	366	0.5000
Connelly Springs	01-12-065	Receiving	0.0077	366	0.1250
Rutherford College	01-12-055	Receiving	0.0890	366	0.1000
Town of Hildebran	01-12-065	Receiving	0.1002	366	0.2000
Town of Rhodhiss	01-14-035	Receiving	0.0407	366	0.0660

CITY OF HICKORY OWNS AND OPERATES THE TOWN OF HILDEBRAN SEWER SYSTEM THAT INTERCONNECTS WITH OUR SYSTEM. WE HAVE BEEN PROVIDED WITH THEIR SEWER BILLING RECORD INFORMATION AND THAT DATA WAS USED TO CALCULATE THE FLOWS LISTED IN SECTION 4 THIS YEAR AND WILL BE GOING FORWARD.

5. Planning

Projections

	2024	2030	2040	2050	2060	2070
Year-Round Population	5,901	5,901	5,901	5,901	5,901	5,901

Seasonal Population	50	50	50	50	50	50
Residential	0.2424	0.2424	0.2424	0.2424	0.2424	0.2424
Commercial	0.0490	0.0624	0.0624	0.0624	0.0624	0.0624
Industrial	0.0390	0.0413	0.0413	0.0413	0.0413	0.0413
Institutional	0.0076	0.0075	0.0075	0.0075	0.0075	0.0075
System Process	0.0700	0.0700	0.0700	0.0700	0.0700	0.0700
Unaccounted-for	0.0666	0.0250	0.0250	0.0250	0.0250	0.0250

Demand v/s Percent of Supply

	2024	2030	2040	2050	2060	2070
Surface Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ground Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Purchases	1.1307	1.1448	1.1448	1.1448	1.1448	1.1448
Future Supplies		0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MGD)	1.1307	1.1448	1.1448	1.1448	1.1448	1.1448
Service Area Demand	0.4746	0.4486	0.4486	0.4486	0.4486	0.4486
Sales	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Future Sales		0.0000	0.0000	0.0000	0.0000	0.0000
Total Demand (MGD)	0.4771	0.4511	0.4511	0.4511	0.4511	0.4511
Demand as Percent of Supply	42%	39%	39%	39%	39%	39%



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 41 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.

Are there other demand management practices you will implement to reduce your future supply needs?

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs?

How does the water system intend to implement the demand management and supply planning components above?

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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