Boiling Springs

2022

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

Contact Information

Complete

Water System Name:	Boiling Springs	PWSID:	01-23-025
Mailing Address:	PO Box 1014 Boiling Springs, NC 28017	Ownership:	Municipality
Contact Person:	Mike Gibert	Title:	Public Works Director
Phone:	704-434-2357	Cell/Mobile:	--
Secondary Contact:	Justin Longino	Phone:	704-434-2357
Mailing Address:	PO Box 1014 Boiling Springs, NC 28017	Cell/Mobile:	--

Distribution System

Line Type	Size Range (Inches)	Estimated % of lines
Asbestos Cement	6	2.00 %
Cast Iron	6	5.00 %
Ductile Iron	6-16	10.00 %
Polyvinyl Chloride	2-12	83.00 %

What are the estimated total miles of distribution system lines? 43 Miles

How many feet of distribution lines were replaced during 2022? 1,430 Feet

How many feet of new water mains were added during 2022? 0 Feet

How many meters were replaced in 2022? 12

How old are the oldest meters in this system? 20 Year(s)

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? 123

What is this system's finished water storage capacity? 0.2000 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

The Town plans to start replacing the oldest water meters in the system starting this year 2023.

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? Yes

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

2. Water Use Information

Service Area

Sub-Basin(s)	% of Service Population	County(s)	% of Service Population
Broad River (01-1)	100 %	Cleveland	100 %

What was the year-round population served in 2022? 4,769

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	1,784	0.2323	0	0.0000
Commercial	148	0.0420	0	0.0001
Industrial	1	0.0011	0	0.0000
Institutional	47	0.0770	0	0.0000

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? 0.0052 MGD

System processes = estimated water main flushing, fire department training and usage.
Non-metered usage = bulk water purchased.

Water Sales

Purchaser	PWSID	Average Daily Sold (MGD)	Days Used	Contract			Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
				MGD	Expiration	Recurring			
Cleveland County SD	01-23-055	0.0000	0			Yes	Yes	6	Emergency

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	0.3350	0.4420	May	0.3780	0.5010	Sep	0.4030	0.4990
Feb	0.3490	0.4150	Jun	0.4370	0.5750	Oct	0.3710	0.4800
Mar	0.3160	0.3780	Jul	0.5100	0.7650	Nov	0.3230	0.4220
Apr	0.3690	0.6900	Aug	0.4290	0.5620	Dec	0.3170	0.5370

All water purchased from the City of Shelby. PWS ID # 01-23-010.

Water Purchases From Other Systems

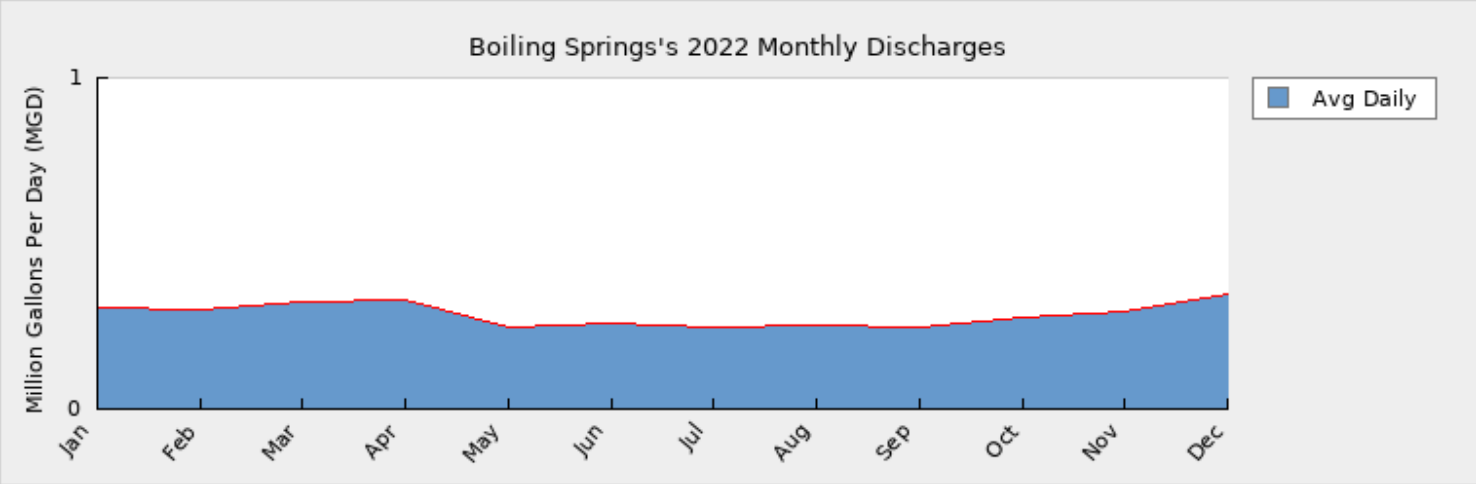
Seller	PWSID	Average Daily Purchased (MGD)	Days Used	Contract			Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
				MGD	Expiration	Recurring			
CLEVELAND COUNTY SD	01-23-055	0.0000	0			Yes	Yes	6	Emergency
SHELBY	01-23-010	0.3800	365	1.0000	2034	Yes	Yes	16	Regular

Cleveland County Water installed a new larger 6" receiving interconnect to the Town of Boiling Springs water system. Currently the interconnect is for emergency use.

4. Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.3040	May	0.2490	Sep	0.2480
Feb	0.3020	Jun	0.2560	Oct	0.2760
Mar	0.3260	Jul	0.2470	Nov	0.2920
Apr	0.3300	Aug	0.2510	Dec	0.3460



How many sewer connections does this system have? 1,066

How many water service connections with septic systems does this system have? 779

Are there plans to build or expand wastewater treatment facilities in the next 10 years? Yes

The Town W/S CIP recommends plans to upgrade the electric power from 208 volts 3 phase to 480 volts 3 phase and build a new residuals digester in the next 5 years at the wastewater treatment plant.

The average daily discharge includes the wastewater from the Town of Lattimore collection system permit # WQCSD0717.

Wastewater Permits

Permit Number	Type	Permitted Capacity (MGD)	Design Capacity (MGD)	Average Annual Daily Discharge (MGD)	Maximum Day Discharge (MGD)	Receiving Stream	Receiving Basin
NC0071943	WWTP	0.6000	0.6000	0.2860	1.0000	SANDY RUN CREEK	Broad River (01-1)
WQCS00222	CS	0.0000	0.0000	0.0000		COLLECTION SYSTEM	Broad River (01-1)

Wastewater Interconnections

Water System	PWSID	Type	Average Daily Amount		Contract Maximum (MGD)
			MGD	Days Used	
Cleveland County SD	01-23-055	Receiving	0.0170	365	0.0750

The Town of Boiling Springs operates the sewer collection system and treats the wastewater from the Town of Lattimore. The water provider for the Town of Lattimore is Cleveland County Water.

5. Planning

Projections

	2022	2030	2040	2050	2060	2070
Year-Round Population	4,769	4,800	4,850	4,900	4,950	5,000
Seasonal Population	0	0	0	0	0	0
Residential	0.2323	0.2370	0.2390	0.2410	0.2430	0.2450
Commercial	0.0421	0.0426	0.0431	0.0436	0.0441	0.0446
Industrial	0.0011	0.0013	0.0015	0.0017	0.0019	0.0022
Institutional	0.0770	0.0775	0.0780	0.0785	0.0790	0.0795
System Process	0.0052	0.0053	0.0054	0.0055	0.0056	0.0057
Unaccounted-for	0.0223	0.0225	0.0230	0.0235	0.0240	0.0245

Demand v/s Percent of Supply

	2022	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	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Future Supplies		0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MGD)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Service Area Demand	0.3800	0.3862	0.3900	0.3938	0.3976	0.4015
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)	0.3800	0.3862	0.3900	0.3938	0.3976	0.4015
Demand as Percent of Supply	38%	39%	39%	39%	40%	40%

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 49 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? The Town of Boiling Springs will work to reduce the per capita water use by continuing our active water conservation public education program, a plumbing retrofit program, a rate structure that encourages water conservation, and a water meter replacement program.

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs? The Town of Boiling Springs future per capita demand will be evaluated annually and additional measures will be implemented as needed to ensure that the per capita usage is being maintained or reduced.

How does the water system intend to implement the demand management and supply planning components above? With continued technical assistance from engineering and NCRWA. The Town recently recieved funding from an AIA grant $150,000 for updating the Town Distibution System GIS Mapping, Distribution System Hydraulic Modeling, CIP, and Revenue Modeling.

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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