

Spring Hope

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

Water System Name: Spring Hope PWSID: 04-64-025
Mailing Address: PO Box 87
Spring Hope, NC 27882 Ownership: Municipality

Contact Person: Andrew Delonno Title: Town Manager
Phone: 252-478-5186 Cell/Mobile: -

Secondary Contact: Mike Houston Phone: 919-812-6088
Mailing Address: , NC 28525 Cell/Mobile: -

Complete

Distribution System

Line Type	Size Range (Inches)	Estimated % of Lines
Asbestos Cement	6-10	83.00 %
Polyvinyl Chloride	6-8	17.00 %

What are the estimated total miles of distribution system lines? 15 Miles

How many feet of distribution lines were replaced during 2022? 0 Feet

How many feet of new water mains were added during 2022? 2,600 Feet

How many meters were replaced in 2022? 18

How old are the oldest meters in this system? 31 Year(s)

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? 12

What is this system's finished water storage capacity? 0.3000 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.* Yes

During 2022, we have experienced multiple main breaks that drained the entire water system, which resulted in millions of gallons in water loss. We are however actively seeking funding to have inserta-valves installed throughout the town to allow us to isolate leaks when they occur.

Programs

Does this system have a program to work or flush hydrants? Yes, Quarterly

Does this system have a valve exercise program? No

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? No

Does this system have a leak detection program? Yes

We use NCRWA as needed. Public Works looks for leaks during their routine jobs throughout town.

Water Conservation

What type of rate structure is used? **Flat/Fixed**

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**

N/A

2. Water Use Information

Service Area

Sub-Basin(s)	% of Service Population	County(s)	% of Service Population
Tar River (15-1)	100 %	Nash	100 %

What was the year-round population served in 2022? **1,307**

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	663	0.0776	0	0.0000
Commercial	81	0.0086	0	0.0000
Industrial	8	0.0053	0	0.0000
Institutional	21	0.0123	0	0.0000

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? **0.0055 MGD**

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	0.0719		May	0.0475		Sep	0.0657	
Feb	0.1096		Jun	0.0149		Oct	0.0866	
Mar	0.0912		Jul	1.2228		Nov	0.0465	
Apr	0.0553		Aug	0.0531		Dec	0.9015	



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					
001 (Ash St.)	0.2316	126		0.1330			Regular
002 (Montgomery St.)	0.0303	365		0.0450			Regular
004 (McLean St.)	0.4028	92		0.0300			Regular
006 (Old Spring Hope Rd.)	0.0218	365		0.0480			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			
001 (Ash St.)	507	337	0	0	6	0	Yes
002 (Montgomery St.)	298	90	0	0	6	217	Yes
004 (McLean St.)	225	87	0	0	6	160	Yes

006 (Old Spring Hope Rd.)	400	143	0	0	8	319	Yes
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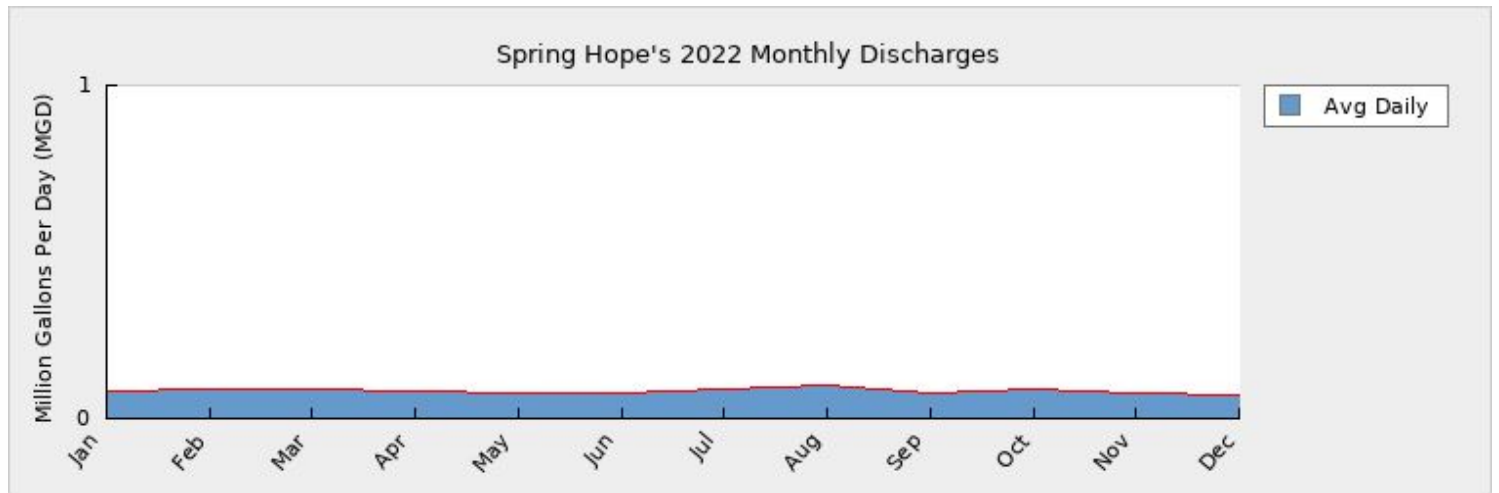
Are ground water levels monitored? Yes, As Needed

Does this system have a wellhead protection program? Yes

4. Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.0831	May	0.0782	Sep	0.0785
Feb	0.0890	Jun	0.0777	Oct	0.0881
Mar	0.0911	Jul	0.0863	Nov	0.0748
Apr	0.0827	Aug	0.0982	Dec	0.0699



How many sewer connections does this system have? 748

How many water service connections with septic systems does this system have? 12

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

Wastewater Permits

Permit Number	Type	Permitted Capacity (MGD)	Design Capacity (MGD)	Average Annual Daily Discharge (MGD)	Maximum Day Discharge (MGD)	Receiving Stream	Receiving Basin
NC0020061	WWTP	0.4000	0.4000	0.0830	1.2000	Tar River	Tar River (15-1)

5. Planning

Projections

	2022	2030	2040	2050	2060	2070
Year-Round Population	1,307	1,360	1,430	1,495	1,564	1,636
Seasonal Population	0	0	0	0	0	0
Residential	0.0776	0.0807	0.0848	0.0886	0.0926	0.0968
Commercial	0.0086	0.0089	0.0094	0.0098	0.0103	0.0107
Industrial	0.0053	0.0530	0.0530	0.0530	0.0530	0.0530
Institutional	0.0123	0.0128	0.0134	0.0140	0.0147	0.0153
System Process	0.0055	0.0057	0.0059	0.0061	0.0063	0.0065
Unaccounted-for	0.1243	0.0149	0.0155	0.0161	0.0167	0.0173

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	0.2560	0.2560	0.2560	0.2560	0.2560	0.2560
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)	0.2560	0.2560	0.2560	0.2560	0.2560	0.2560
Service Area Demand	0.2336	0.1760	0.1820	0.1876	0.1936	0.1996
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)	0.2336	0.1760	0.1820	0.1876	0.1936	0.1996
Demand as Percent of Supply	91%	69%	71%	73%	76%	78%



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 59 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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