

Sampson County has a moderate risk profile. Iron is detected in ~75% of wells, driven by geological sources. Contamination is often invisible — testing is the only way to confirm your well's safety.

N/A  
HOUSEHOLDS ON  
PRIVATE WELLS

Varies  
PRIMARY  
AQUIFER TYPE

**MODERATE**  
OVERALL  
RISK LEVEL

**YOUR TOP WATER QUALITY RISKS**

CONTAMINANT	HOW COMMON	RISK LEVEL	SOURCE & CONTEXT
Iron*	~75% of wells	Moderate	Geological — Common in glacial and alluvial aquifers; staining and taste
Arsenic	~10% above limit	High	Geological — Naturally dissolves from bedrock and glacial sediment
Uranium	~100% of wells	Low-Moderate	Geological — Naturally occurring in granitic and sedimentary bedrock
Chloride*	~100% of wells	Low-Moderate	Road/Geological — Road salt application and natural mineral deposits
Sulfate*	~98% of wells	Low-Moderate	Geological — Natural dissolution from gypsum and sulfate minerals

\* Secondary standard — an aesthetic limit for taste, odor, or staining. Not a health-based EPA limit.

**WHAT TO DO NEXT**

- Order a water test.**  
Test for Iron, Arsenic, Uranium, Chloride, coliform bacteria. Bacteria annually; others every 3–5 years.
- Get your free county report.**  
See full data, treatment options, and certified labs at <https://yourwaterreport.com/states/nc/sampson-county/>
- Upload your lab results.**  
We'll interpret them, flag anything above limits, and recommend next steps — free.

**KNOW YOUR WELL**

Well age / year drilled \_\_\_\_\_

Last water test date \_\_\_\_\_

Treatment systems installed \_\_\_\_\_

Well driller / service contact \_\_\_\_\_

**WHAT YOUR RESULTS MEAN**

Use this to interpret your lab report — match the contaminant to your result.

IF YOUR TEST SHOWS	WHAT IT MEANS	CONSIDER
Bacteria detected	Immediate concern	Shock chlorination; add UV system
Iron > 0.3 mg/L	Staining, taste — aesthetic issue	Oxidizing iron filter
Arsenic > 10 µg/L	EPA limit exceeded — chronic cancer risk	Reverse osmosis or activated alumina filter
Uranium > 30 µg/L	EPA limit exceeded — kidney risk	Reverse osmosis or ion exchange

**WHO SHOULD USE THIS**

- Homeowners on private wells — not covered by public water testing
- Home buyers doing due diligence before closing
- Families with infants, elderly, or immunocompromised members
- Anyone who hasn't tested their well in the past 3 years

**LOCAL RESOURCES**

**Full county report**  
<https://yourwaterreport.com/states/nc/sampson-county/>

Free personalized well water report at  
<https://yourwaterreport.com/states/nc/sampson-county/>

Data: EPA ECHO · USGS NWIS · Water Quality Portal · U.S. Census ACS  
For informational purposes only. Contact a licensed professional for testing and treatment.