

Roanoke city has a moderate risk profile. Manganese is the primary concern, 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
<b>Manganese*</b>	~28% above aesthetic limit	Moderate	<b>Geological</b> — Found in reducing aquifer zones alongside iron
<b>Iron*</b>	~10% above aesthetic limit	Moderate	<b>Geological</b> — Common in glacial and alluvial aquifers; staining and taste
<b>Lead</b>	~9% above limit	Moderate	<b>Infrastructure</b> — Older well casing materials and household plumbing
<b>Arsenic</b>	~100% of wells	Low–Moderate	<b>Geological</b> — Naturally dissolves from bedrock and glacial sediment
<b>Chloride*</b>	~100% of wells	Low–Moderate	<b>Road/Geological</b> — Road salt application and natural mineral deposits

\* 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 Manganese, Iron, Lead, Arsenic, 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/va/roanoke-city/>
- 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
<b>Bacteria detected</b>	<b>Immediate concern</b>	Shock chlorination; add UV system
<b>Manganese &gt; 0.05 mg/L</b>	<b>Aesthetic + health concern at high levels</b>	Oxidation + filtration system
<b>Iron &gt; 0.3 mg/L</b>	<b>Staining, taste — aesthetic issue</b>	Oxidizing iron filter
<b>Lead &gt; 15 µg/L</b>	<b>EPA action level exceeded</b>	RO filter; inspect well casing
<b>Arsenic &gt; 10 µg/L</b>	<b>EPA limit exceeded — chronic cancer risk</b>	Reverse osmosis or activated alumina filter

## 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/va/roanoke-city/>

Free personalized well water report at  
<https://yourwaterreport.com/states/va/roanoke-city/>

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