

Cass County has a lower-risk groundwater profile above glacial aquifers. Nitrite is detected in ~90% of wells, driven by sources. Contamination is often invisible — testing is the only way to confirm your well's safety.

**31%**

HOUSEHOLDS ON PRIVATE WELLS

**Glacial aquifers**

PRIMARY AQUIFER TYPE

**LOW**

OVERALL RISK LEVEL

**YOUR TOP WATER QUALITY RISKS**

CONTAMINANT	HOW COMMON	RISK LEVEL	SOURCE & CONTEXT
<b>Nitrite</b>	~90% of wells	<b>Low-Moderate</b>	
<b>Nitrate</b>	~97% of wells	<b>Low-Moderate</b>	<b>Agricultural</b> — Fertilizer, manure, and septic systems leaching into groundwater
<b>Sulfate*</b>	~100% of wells	<b>Low-Moderate</b>	<b>Geological</b> — Natural dissolution from gypsum and sulfate minerals
<b>Lead</b>	~100% of wells	<b>Low-Moderate</b>	<b>Infrastructure</b> — Older well casing materials and household plumbing
<b>Chloride*</b>	~100% of wells	<b>Low-Moderate</b>	<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 Nitrite, Nitrate, Sulfate, Lead, 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/mi/cass-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
<b>Bacteria detected</b>	<b>Immediate concern</b>	Shock chlorination; add UV system
<b>Nitrate &gt; 10 mg/L</b>	<b>EPA limit exceeded — risk for infants</b>	RO filter; avoid for bottle-fed infants
<b>Lead &gt; 15 µg/L</b>	<b>EPA action level exceeded</b>	RO filter; inspect well casing

**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**

**Well Testing Services | Raven Analytical Laboratories**  
<https://ravenwaterlab.com/>

**Full county report**  
<https://yourwaterreport.com/states/mi/cass-county/>

Free personalized well water report at <https://yourwaterreport.com/states/mi/cass-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.