

Orange County has an elevated 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

ELEVATED

OVERALL
RISK LEVEL

YOUR TOP WATER QUALITY RISKS

CONTAMINANT	HOW COMMON	RISK LEVEL	SOURCE & CONTEXT
Manganese*	~50% above aesthetic limit	Moderate	Geological — Found in reducing aquifer zones alongside iron
Iron*	~36% above aesthetic limit	Moderate	Geological — Common in glacial and alluvial aquifers; staining and taste
Chloride*	~25% above aesthetic limit	Moderate	Road/Geological — Road salt application and natural mineral deposits
Nitrate	~14% above limit	High	Agricultural — Fertilizer, manure, and septic systems leaching into groundwater
Sulfate*	~0.7% above aesthetic limit	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 Manganese, Iron, Chloride, Nitrate, 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/tx/orange-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
Manganese > 0.05 mg/L	Aesthetic + health concern at high levels	Oxidation + filtration system
Iron > 0.3 mg/L	Staining, taste — aesthetic issue	Oxidizing iron filter
Nitrate > 10 mg/L	EPA limit exceeded — risk for infants	RO filter; avoid for bottle-fed infants

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/tx/orange-county/>

