

Essex County has a moderate risk profile. Radon is detected in ~100% of wells, driven by geological sources. Contamination is often invisible — testing is the only way to confirm your well's safety.

1%

HOUSEHOLDS ON
PRIVATE WELLS

Varies

PRIMARY
AQUIFER TYPE

MODERATE

OVERALL
RISK LEVEL

YOUR TOP WATER QUALITY RISKS

CONTAMINANT	HOW COMMON	RISK LEVEL	SOURCE & CONTEXT
Radon†	~100% of wells	Advisory	Geological — Radioactive gas dissolved from uranium-bearing rock
PFOA	~63% above limit	High	Industrial — Firefighting foam and industrial manufacturing discharge
Chloride*	~20% above aesthetic limit	Moderate	Road/Geological — Road salt application and natural mineral deposits
PFOS	~20% above limit	High	Industrial — Firefighting foam and industrial discharge
Manganese*	~18% above aesthetic limit	Moderate	Geological — Found in reducing aquifer zones alongside iron

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

† No finalized EPA primary MCL. Figure shows detection frequency, not regulatory exceedance.

WHAT TO DO NEXT

- Order a water test.**
Test for Radon, PFOA, Chloride, PFOS, 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/nj/essex-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
Radon > 4,000 pCi/L	EPA proposed limit; also affects indoor air	Aeration system; test indoor air
PFOA detected	Health advisory level	Reverse osmosis filter
PFOS detected	Health advisory level	Reverse osmosis filter
Manganese > 0.05 mg/L	Aesthetic + health concern at high levels	Oxidation + filtration system

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

Environmental Well Testing: Well Water Testing Services | New Jersey

<https://envwelltesting.com>

Full county report

<https://yourwaterreport.com/states/nj/essex-county/>

Free personalized well water report at
<https://yourwaterreport.com/states/nj/essex-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.