



Rowan County

Contaminant	Number of wells tested	Minimum	Maximum	Average	Maximum Contaminant Level (MCL) * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
1,2-Dibromoethane	12	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	14	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	1,769	0.5	309	1.7	10	µg/L	19	1.07%		
Barium	959	50	50	50	2,000	µg/L	0	0.00%		
Benzene	16	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	959	0.5	10.1	0.6	5	µg/L	2	0.21%		
Chromium	958	0.5	75.6	5.6	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	36	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	1,770	25	5,250.00	75.80	1,300*	µg/L	19	1.07%		
Ethylbenzene	18	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	4,337	100	18,680.00	332.30	4,000*	µg/L	11	0.25%		
Iron	1,763	25	220,000,000.00	125,698.70	300*	µg/L	370	20.99%		
Isopropyl Ether	12	0.25	0.25	0.25	No drinking water standard	µg/L				
Lead	1,788	2.5	587	4.8	15	µg/L	48	2.69%		
Magnesium	1,770	4,100	4,500.00	4,310.70	No drinking water standard	µg/L				
Manganese	1,770	15	12,080.00	84.40	50*	µg/L	303	17.12%		

Contaminant	Number of wells tested	Minimum	Maximum	Average	Maximum Contaminant Level (MCL) * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
Mercury	933	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	40	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	1,049	500	51,940.00	1,760.40	10,000	µg/L	0	0.00%		
Nitrite	1,067	50	50	50	1,000	µg/L	0	0.00%		
pH	1,768	5	9.4	7.1	6.5-8.5*	standard units	6	0.34%	237	13.40%
Selenium	957	2.5	74.3	2.7	50	µg/L	1	0.10%		
Silver	957	25	25	25	100*	µg/L	0	0.00%		
Sodium	840	500	627,000.00	14,254.40	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	26	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	18	0.25	57.7	6.63	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	36	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	36	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	36	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	12	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	1,761	25	39,660.00	288.20	5,000*	µg/L	10	0.57%		

* **Secondary MCL:** Secondary contaminants may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.⁸ The **Secondary Maximum Contaminant Level (SMCL)** is a non-enforceable standard for secondary contaminants in drinking water. SMCLs may be based upon a contaminant's likelihood to cause changes to the taste, odor, or color of drinking water, or, may be based on the likelihood of the contaminant to cause technical changes such as damage to water fixtures or an increased availability of other contaminants in drinking water.⁸

Tracking and Analyzing Contaminants (TrAC) in Private Well Water in NC

UNC Superfund Research Program- Research Translation Core

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