



Rockingham County

Contaminant	Number of wells tested	Minimum	Maximum	Average	<u>Maximum Contaminant Level (MCL)</u> * 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-Dibromomethane	16	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	16	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	577	0.5	20	1.8	10	µg/L	4	0.69%		
Barium	245	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	245	0.5	5	0.6	5	µg/L	0	0.00%		
Chromium	245	0.5	40	5.2	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	45	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	577	25	1,040.00	46.80	1,300*	µg/L	0	0.00%		
Ethylbenzene	20	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	3,229	100	9,990.00	429.10	4,000*	µg/L	3	0.09%		
Iron	575	25	27,270.00	602.40	300*	µg/L	138	24.00%		
Isopropyl Ether	16	0.25	0.25	0.25	No drinking water standard	µg/L				
Lead	584	2.5	115	3.6	15	µg/L	14	2.40%		
Magnesium	577	4,000	4,100.00	4,078.00	No drinking water standard	µg/L				
Manganese	577	15	6,760.00	64.50	50*	µg/L	123	21.32%		

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	230	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	47	0.25	1.4	0.27	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	361	500	43,000.00	1,328.60	10,000	µg/L	0	0.00%		
Nitrite	357	50	50	50	1,000	µg/L	0	0.00%		
pH	577	4.6	9.2	7.0	6.5-8.5*	standard units	2	0.35%	98	16.98%
Selenium	245	2.5	26	2.7	50	µg/L	0	0.00%		
Silver	245	25	25	25	100*	µg/L	0	0.00%		
Sodium	209	500	490,000.00	21,433.50	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	39	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	16	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	45	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	45	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	45	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	18	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	575	25	11,240.00	109.60	5,000*	µg/L	2	0.35%		

* **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

Funded by an ARRA supplement from NIEHS (P42-ES005948) 2009-2011

