



Alamance 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-Dibromoethane	52	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	48	0.25	11.9	0.93	5	µg/L	2	4.17%		
Arsenic	3,035	0	21	1.3	10	µg/L	5	0.16%		
Barium	673	100	387	171.8	2,000	µg/L	0	0.00%		
Benzene	53	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	674	0.5	6	0.7	5	µg/L	1	0.15%		
Chromium	644	0.5	60	5.2	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	153	0.25	1.5	0.27	70	µg/L	0	0.00%		
Copper	3,036	0	35,840.00	73.80	1,300*	µg/L	13	0.43%		
Ethylbenzene	80	0.25	0.7	0.28	700	µg/L	0	0.00%		
Fluoride	4,335	100	4,200.00	247.80	4,000*	µg/L	2	0.05%		
Iron	3,022	0	53,600.00	697.50	300*	µg/L	866	28.66%		
Isopropyl Ether	56	0.25	4.4	0.4464	No drinking water standard	µg/L				
Lead	3,084	0	22,000.00	11.40	15	µg/L	82	2.66%		
Magnesium	3,032	1000	2,910.00	1,875.00	No drinking water standard	µg/L				
Manganese	3,037	0	7,740.00	105.00	50*	µg/L	964	31.74%		

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	655	0.3	2	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	167	0.25	477.9	5.8213	20* (recommended taste and odor threshold)	µg/L	3	1.80%		
Nitrate	2,014	500	26,850.00	1,235.80	10,000	µg/L	0	0.00%		
Nitrite	2,021	50	50	50	1,000	µg/L	0	0.00%		
pH	3,034	5	11.1	7.02	6.5-8.5*	standard units	16	0.53%	500	16.48%
Selenium	644	2.5	12	2.6	50	µg/L	0	0.00%		
Silver	643	25	164	25.2	100*	µg/L	0	0.00%		
Sodium	238	500	400,000.00	19,787.80	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	143	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	58	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	151	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	153	0.25	2	0.27	5	µg/L	0	0.00%		
Vinyl chloride	151	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	56	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	3,020	0	27,160.00	1,124.20	5,000*	µg/L	172	5.70%		

* **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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