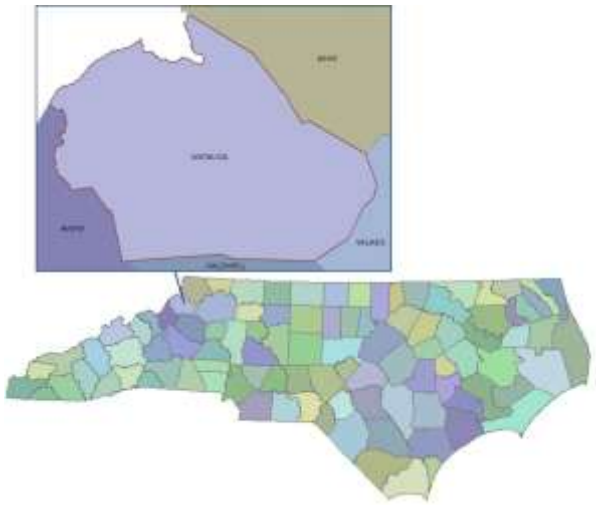

Watauga County

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	6	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	6	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	724	0.5	38	2	10	µg/L	17	2.35%		
Barium	143	49	100	99.3	2,000	µg/L	0	0.00%		
Benzene	8	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	146	0.5	5	0.7	5	µg/L	0	0.00%		
Chromium	143	5	33	5.2	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	19	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	711	25	10,210.00	346.20	1,300*	µg/L	49	6.89%		
Ethylbenzene	8	0.25	0.85	0.4	700	µg/L	0	0.00%		
Fluoride	1,432	100	8,020.00	451.30	4,000*	µg/L	7	0.49%		
Iron	720	25	44,140.00	407.70	300*	µg/L	106	14.72%		
Isopropyl Ether	6	0.25	0.25	0.25	No drinking water standard	µg/L				
Lead	729	2.5	626	6.7	15	µg/L	38	5.21%		
Magnesium	711	8,100	8,600.00	8,343.00	No drinking water standard	µg/L				
Manganese	712	15	2,170.00	35.30	50*	µg/L	55	7.73%		

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	147	0.3	2.5	0.3	2	µg/L	1	0.68%		
Methyl tertiary butyl ether (MTBE)	19	0.25	287	35.00	20* (recommended taste and odor threshold)	µg/L	3	15.79%		
Nitrate	92	500	10,490.00	1,979.50	10,000	µg/L	0	0.00%		
Nitrite	98	50	50	50	1,000	µg/L	0	0.00%		
pH	712	4.5	9.7	6.9	6.5-8.5*	standard units	8	1.12%	162	22.75%
Selenium	143	2.5	5	2.5	50	µg/L	0	0.00%		
Silver	145	25	25	25	100*	µg/L	0	0.00%		
Sodium	49	1,000	149,000.00	14,363.30	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	21	0.25	11.5	0.78	5	µg/L	1	4.76%		
Toluene	8	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	19	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	19	0.25	1.3	0.31	5	µg/L	0	0.00%		
Vinyl chloride	19	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	8	0.25	2.8	0.89	10,000	µg/L	0	0.00%		
Zinc	708	25	28,840.00	386.60	5,000*	µg/L	8	1.13%		

* **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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