

Well Water Contaminants in Haywood County

Contaminant	Drinking Water Standard	Private Well Water Test Results					
		Total wells tested	Number of wells tested above standard	Percentage (%) of wells tested above standard	Minimum	Maximum	Average
Maximum Contaminant Level (MCL)							
Arsenic	10	1994	0	0%	0.71	7.07	2.71
Barium	2000	1152	0	0%	70.71	704	76.66
Beryllium	4	5	0	0%	2.12	2.12	2.12
Cadmium	5	1391	0	0%	0.71	3.54	0.77
Chromium	100	1152	1	0.09%	7.07	140	7.37
Copper	1300	1152	3	0.26%	35.36	6740	65.91
Lead	15	1994	42	2.11%	3.54	220	4.55
Mercury	2	729	0	0%	0.35	1.2	0.35
Nitrate	10000	676	6	0.89%	707.11	39000	1137.77
Nitrite	1000	676	3	0.44%	70.71	1500	77.35
Selenium	50	1152	0	0%	3.54	15	3.57
Uranium	30	0	-	-	-	-	-
NC 2L Groundwater							
Barium	700	1152	1	0.09%	70.71	704	76.66
Boron	700	0	-	-	-	-	-
Cadmium	2	1391	29	2.08%	0.71	3.54	0.77
Chromium	10	1152	15	1.3%	7.07	140	7.37
Cobalt	1	0	-	-	-	-	-
Nickel	100	0	-	-	-	-	-
Zinc*	1000	1148	49	4.27%	35.36	59000	407.58
Health Advisory							
Iron*	2500 (DEQ)	1152	340	29.51%	70.71	80000	810.94
Manganese*	300 (EPA)	1994	219	10.98%	21.21	6030	38.67
Sodium	20000 (EPA)	1093	1084	99.18%	707.11	260000	7460.44
State Health Goal							
Hexavalent Chromium	0.07	0	-	-	-	-	-
Thallium	0.2	5	5	100%	1.41	1.41	1.41
Vanadium	0.3	0	-	-	-	-	-

Contaminant levels are measured in micrograms per liter (µg/L), which is equal to parts per billion (ppb). Note: Copper and Lead standards are called "Action Levels".

*The EPA also has a nuisance standard for aesthetic effects caused by these contaminants, however, this table uses the health-based standard.

Maximum Contaminant Level (MCL): The highest level of a contaminant that the US EPA allows in drinking water supplied by public utilities. An MCL takes into consideration the best available treatment technology and associated costs along with health risk. More information about MCL standards: <https://bit.ly/epa-MCL>.

NC 2L Groundwater: Set by NC DEQ as the highest level of a contaminant allowed in groundwater, which may be tolerated without creating a threat to human health or which would otherwise make the groundwater unsuitable for its intended best usage, such as a drinking water. Note: Barium, Cadmium, and Chromium have different standards under state and federal regulations; both are included in this table. More information about NC 2L Groundwater standards: <https://bit.ly/nc2Lgw>.

Health Advisory: In the absence of federal standards, the US EPA and state agencies can issue advisories to communicate the level of a contaminant in drinking water at which harmful health and/or aesthetic effects are not anticipated to occur over a specific period of time.

State Health Goal: In the absence of state and federal standards, level established by NC DHHS to communicate to private well users the risk associated with using their well water.

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For more information visit:

<https://sph.unc.edu/superfund-pages-for-communities/>

Eaves LA, Keil AP, Rager JE, George A, Fry RC. Analysis of the novel NCWELL database highlights two decades of co-occurrence of toxic metals in North Carolina private well water: Public health and environmental justice implications. *Sci Total Environ.* 2022 Mar 15;812:151479. doi: [10.1016/j.scitotenv.2021.151479](https://doi.org/10.1016/j.scitotenv.2021.151479). Epub 2021 Nov 9. PMID: 34767890.

