



Halifax 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	Not Tested	0	0	0	0.05	µg/L	0	Not Tested		
1,2-Dichloropropane	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Arsenic	121	0.5	17	1.5	10	µg/L	1	0.83%		
Barium	42	50	50	50	2,000	µg/L	0	0.00%		
Benzene	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Cadmium	42	0.5	0.5	0.5	5	µg/L	0	0.00%		
Chromium	42	5	50	6.2	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	2	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	109	25	700	61.3	1,300*	µg/L	0	0.00%		
Ethylbenzene	Not Tested	0	0	0	700	µg/L	0	Not Tested		
Fluoride	593	100	2,270.00	713.10	4,000*	µg/L	0	0.00%		
Iron	103	25	8,300.00	568.80	300*	µg/L	23	22.33%		
Isopropyl Ether	Not Tested	0	0	0	No drinking water standard	µg/L				
Lead	149	0	114	4.1	15	µg/L	4	2.69%		
Magnesium	107	1,400	1,500.00	1,487.90	No drinking water standard	µg/L				
Manganese	107	15	4,460.00	136.10	50*	µg/L	33	30.84%		

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	37	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	2	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	198	500	29,920.00	3,214.70	10,000	µg/L	0	0.00%		
Nitrite	210	50	50	50	1,000	µg/L	0	0.00%		
pH	110	4.1	9.5	6.8	6.5-8.5*	standard units	3	2.73%	36	32.73%
Selenium	42	2.5	2.5	2.5	50	µg/L	0	0.00%		
Silver	42	25	25	25	100*	µg/L	0	0.00%		
Sodium	43	1,800	2,900,000.00	102,483.70	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	2	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	Not Tested	0	0	0	1,000	µg/L	0	Not Tested		
trans-1,2-Dichloroethene (t-DCE)	2	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	2	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	2	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	Not Tested	0	0	0	10,000	µg/L	0	Not Tested		
Zinc	103	25	4,740.00	170.40	5,000*	µg/L	0	0.00%		

* **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

