



Carteret 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	12	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	12	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	577	0.5	19	1.3	10	µg/L	2	0.35%		
Barium	227	50	50	50	2,000	µg/L	0	0.00%		
Benzene	12	0.25	4.3	1.58	5	µg/L	0	0.00%		
Cadmium	228	0.5	5	0.5	5	µg/L	0	0.00%		
Chromium	228	0.5	103	5.4	100	µg/L	1	0.44%		
cis-1,2-Dichloroethene (c-DCE)	36	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	657	25	6,210,000.00	9,620.90	1,300*	µg/L	27	4.11%		
Ethylbenzene	14	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	1,503	100	6,400.00	547.60	4,000*	µg/L	1	0.07%		
Iron	572	25	110,000.00	863.50	300*	µg/L	247	43.18%		
Isopropyl Ether	12	0.25	0.25	0.25	No drinking water standard	µg/L				
Lead	671	2.5	7,790.00	16.00	15	µg/L	17	2.53%		
Magnesium	577	50	50	50	No drinking water standard	µg/L				
Manganese	578	15	4,100.00	42.50	50*	µg/L	98	16.96%		

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	221	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	36	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	484	500	7,940.00	563.30	10,000	µg/L	0	0.00%		
Nitrite	500	50	50	50	1,000	µg/L	0	0.00%		
pH	575	5.1	8.6	7.62	6.5-8.5*	standard units	1	0.17%	5	0.87%
Selenium	227	2.5	24.3	2.7	50	µg/L	0	0.00%		
Silver	227	25	25	25	100*	µg/L	0	0.00%		
Sodium	237	2,000	330,000.00	17,524.40	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	34	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)	36	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	36	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	36	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	12	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	573	25	36,000.00	162.00	5,000*	µg/L	1	0.17%		

* **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

