



## Madison 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
<a href="#">1,2-Dibromoethane</a>	22	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
<a href="#">1,2-Dichloropropane</a>	22	0.25	0.25	0.25	5	µg/L	0	0.00%		
<a href="#">Arsenic</a>	997	0	102	1.3	10	µg/L	2	0.20%		
<a href="#">Barium</a>	280	50	50	50	2,000	µg/L	0	0.00%		
<a href="#">Benzene</a>	22	0.25	0.25	0.25	5	µg/L	0	0.00%		
<a href="#">Cadmium</a>	280	0.5	5	0.5	5	µg/L	0	0.00%		
<a href="#">Chromium</a>	280	0.5	150	5.8	100	µg/L	1	0.36%		
<a href="#">cis-1,2-Dichloroethene (c-DCE)</a>	23	0.25	0.25	0.25	70	µg/L	0	0.00%		
<a href="#">Copper</a>	997	0	11,070.00	106.00	1,300*	µg/L	11	1.10%		
<a href="#">Ethylbenzene</a>	28	0.25	0.25	0.25	700	µg/L	0	0.00%		
<a href="#">Fluoride</a>	1,041	100	7,930.00	368.80	4,000*	µg/L	7	0.67%		
<a href="#">Iron</a>	993	0	63,380.00	719.00	300*	µg/L	269	27.09%		
<a href="#">Isopropyl Ether</a>	22	0.25	0.25	0.25	No drinking water standard	µg/L				
<a href="#">Lead</a>	1,007	0	272	7.2	15	µg/L	72	7.15%		
<a href="#">Magnesium</a>	997	2,000	192,000.00	9,875.00	No drinking water standard	µg/L				
<a href="#">Manganese</a>	997	0	1,800.00	53.70	50*	µg/L	199	19.96%		

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
<a href="#">Mercury</a>	265	0.3	0.3	0.3	2	µg/L	0	0.00%		
<a href="#">Methyl tertiary butyl ether (MTBE)</a>	25	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
<a href="#">Nitrate</a>	200	500	4,550.00	676.30	10,000	µg/L	0	0.00%		
<a href="#">Nitrite</a>	212	50	50	50	1,000	µg/L	0	0.00%		
<a href="#">pH</a>	997	5.5	10	7.2	6.5-8.5*	standard units	9	0.90%	89	8.93%
<a href="#">Selenium</a>	280	2.5	2.5	2.5	50	µg/L	0	0.00%		
<a href="#">Silver</a>	280	25	25	25	100*	µg/L	0	0.00%		
<a href="#">Sodium</a>	245	1,000	223,000.00	13,050.60	No drinking water standard	µg/L				
<a href="#">Tetrachloroethylene (PCE)</a>	23	0.25	1	0.32	5	µg/L	0	0.00%		
<a href="#">Toluene</a>	24	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
<a href="#">trans-1,2-Dichloroethene (t-DCE)</a>	23	0.25	0.25	0.25	100	µg/L	0	0.00%		
<a href="#">Trichloroethylene (TCE)</a>	23	0.25	0.25	0.25	5	µg/L	0	0.00%		
<a href="#">Vinyl chloride</a>	23	0.25	0.25	0.25	2	µg/L	0	0.00%		
<a href="#">Xylenes (Total)</a>	22	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
<a href="#">Zinc</a>	993	0	10,670.00	176.70	5,000*	µg/L	3	0.30%		

\* **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.<sup>8</sup> 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.<sup>8</sup>

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

