# Well Water Contaminants in Bertie County

## Private Well Water Test Results

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Maximum Contaminant Level (MCL)</th>
<th>NC 2L Groundwater</th>
<th>Health Advisory</th>
<th>State Health Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total wells tested</strong></td>
<td><strong>Number of wells tested above standard</strong></td>
<td><strong>Percentage (%) of wells tested above standard</strong></td>
<td><strong>Minimum</strong></td>
<td><strong>Maximum</strong></td>
</tr>
<tr>
<td><strong>Arsenic</strong></td>
<td>10</td>
<td>104</td>
<td>0%</td>
<td>0.71</td>
</tr>
<tr>
<td><strong>Barium</strong></td>
<td>2000</td>
<td>79</td>
<td>0%</td>
<td>70.71</td>
</tr>
<tr>
<td><strong>Beryllium</strong></td>
<td>4</td>
<td>4</td>
<td>0%</td>
<td>2.12</td>
</tr>
<tr>
<td><strong>Cadmium</strong></td>
<td>5</td>
<td>79</td>
<td>0%</td>
<td>0.71</td>
</tr>
<tr>
<td><strong>Chromium</strong></td>
<td>100</td>
<td>79</td>
<td>0%</td>
<td>7.07</td>
</tr>
<tr>
<td><strong>Copper</strong></td>
<td>1300</td>
<td>79</td>
<td>0%</td>
<td>35.36</td>
</tr>
<tr>
<td><strong>Lead</strong></td>
<td>15</td>
<td>104</td>
<td>0%</td>
<td>3.54</td>
</tr>
<tr>
<td><strong>Mercury</strong></td>
<td>2</td>
<td>63</td>
<td>0%</td>
<td>0.35</td>
</tr>
<tr>
<td><strong>Nitrate</strong></td>
<td>10000</td>
<td>62</td>
<td>1.61%</td>
<td>707.11</td>
</tr>
<tr>
<td><strong>Nitrite</strong></td>
<td>1000</td>
<td>62</td>
<td>0%</td>
<td>70.71</td>
</tr>
<tr>
<td><strong>Selenium</strong></td>
<td>50</td>
<td>79</td>
<td>0%</td>
<td>3.54</td>
</tr>
<tr>
<td><strong>Uranium</strong></td>
<td>30</td>
<td>0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Barium</strong></td>
<td>700</td>
<td>79</td>
<td>1.27%</td>
<td>70.71</td>
</tr>
<tr>
<td><strong>Boron</strong></td>
<td>700</td>
<td>0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Cadmium</strong></td>
<td>2</td>
<td>79</td>
<td>0%</td>
<td>0.71</td>
</tr>
<tr>
<td><strong>Chromium</strong></td>
<td>10</td>
<td>79</td>
<td>0%</td>
<td>7.07</td>
</tr>
<tr>
<td><strong>Cobalt</strong></td>
<td>1</td>
<td>0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Nickel</strong></td>
<td>100</td>
<td>0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Zinc</strong></td>
<td>1000</td>
<td>77</td>
<td>1.3%</td>
<td>35.36</td>
</tr>
<tr>
<td><strong>Iron</strong></td>
<td>2500 (DEQ)</td>
<td>79</td>
<td>22.78%</td>
<td>70.71</td>
</tr>
<tr>
<td><strong>Manganese</strong></td>
<td>300 (EPA)</td>
<td>104</td>
<td>13.46%</td>
<td>21.21</td>
</tr>
<tr>
<td><strong>Sodium</strong></td>
<td>20000 (EPA)</td>
<td>77</td>
<td>100%</td>
<td>4700</td>
</tr>
</tbody>
</table>

**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):

### 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](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.

For more information visit: [https://sph.unc.edu/superfund-pages/for-communities/](https://sph.unc.edu/superfund-pages/for-communities/)


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