



McDowell 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	8	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	8	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	631	0.5	93	1.9	10	µg/L	5	0.79%		
Barium	337	50	50	50	2,000	µg/L	0	0.00%		
Benzene	8	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	336	0.5	5	0.6	5	µg/L	0	0.00%		
Chromium	336	0.5	40	5.2	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	Not Tested	0	0	0	70	µg/L	0	Not Tested		
Copper	631	25	4,420.00	69.10	1,300*	µg/L	4	0.63%		
Ethylbenzene	14	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	803	100	3,150.00	300.50	4,000*	µg/L	0	0.00%		
Iron	630	10	41,450.00	501.90	300*	µg/L	146	23.17%		
Isopropyl Ether	8	0.25	0.25	0.25	No drinking water standard	µg/L				
Lead	651	2.5	974	8	15	µg/L	36	5.53%		
Magnesium	631	2,000	2,100.00	2,033.50	No drinking water standard	µg/L				
Manganese	631	15	1,780.00	40.80	50*	µg/L	90	14.26%		

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	321	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	Not Tested	0	0	0	20* (recommended taste and odor threshold)	µg/L	0	Not Tested		
Nitrate	406	500	8,410.00	663.80	10,000	µg/L	0	0.00%		
Nitrite	435	50	50	50	1,000	µg/L	0	0.00%		
pH	629	5.2	8.5	6.8504	6.5-8.5*	standard units	0	0.00%	164	26.07%
Selenium	335	2.5	40	2.8	50	µg/L	0	0.00%		
Silver	337	25	25	25	100*	µg/L	0	0.00%		
Sodium	319	1,000	850,000.00	24,258.20	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Toluene	Not Tested	0.25	0.25	0.25	1,000	µg/L	0	Not Tested		
trans-1,2-Dichloroethene (t-DCE)	Not Tested	0	0	0	100	µg/L	0	Not Tested		
Trichloroethylene (TCE)	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Vinyl chloride	Not Tested	0	0	0	2	µg/L	0	Not Tested		
Xylenes (Total)	8	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	630	25	24,370.00	227.30	5,000*	µg/L	6	0.95%		

* **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

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