



Artesian Well: Water Quality Test Results

Contaminant* (2021)	Result	Unit of Measurement	SRL ***	Trigger Level ***	MCL ***
Arsenic	0.0049	mg/L	0.001	0.01	0.01
Antimony	<0.001	mg/L	0.001	0.006	0.006
Barium	0.0069	mg/L	0.001	2	2
Beryllium	<0.0003	mg/L	0.0003	0.004	0.004
Cadmium	<0.001	mg/L	0.001	0.005	0.005
Chloride	2.2	mg/L	0.1	250	250
Chromium	<0.001	mg/L	0.001	0.1	0.1
Color	5	Color Unit	5	15	15
Conductivity	66.1	uS/cm	10	700	700
Copper	<0.005	mg/L	0.005	N/A	1.3
Cyanide	<0.01	mg/L	0.01	0.2	0.2
Fluoride	0.11	mg/L	0.1	2	4
Hardness as Calcium Carbonate	71.6	mg/L	10	N/A	N/A
Iron	0.085	mg/L	0.1	0.3	0.3
Lead	<0.001	mg/L	0.001	N/A	0.015
Manganese	0.254 ****	mg/L	0.001	0.05	0.05
Mercury	<0.0002	mg/L	0.0002	0.002	0.002
Nickel	<0.001	mg/L	0.001	0.1	0.1
Nitrate	<0.1	mg/L	0.1	5	10
Nitrate + Nitrite<N	<0.5	mg/L	0.5	5	10
Nitrite	<0.1	mg/L	0.1	0.5	1
Selenium	<0.002	mg/L	0.002	0.05	0.05
Silver	<0.001	mg/L	0.001	0.05	0.05
Sodium	6.90	mg/L	5	N/A	N/A
Sulfate	<0.2	mg/L	0.2	250	250
Thallium	<0.0001	mg/L	0.0001	0.002	0.002
Total Dissolved Solids (TDS)	136	mg/L	10	500	500
Turbidity	0.35	NTU	0.1	1.0	1.0
Zinc	<0.005	mg/L	0.005	5	5

* The City tests for many different contaminants, like volatile organic compounds (VOCs) and synthetic organic compounds (SOCs), but only reports on detected contaminants.

** With the exception of nitrate, which is tested annually, all other contaminants listed are tested every three years.

*** See definitions on the next page.

**** Manganese is a secondary contaminant that can cause aesthetic issues and is not based on health risks.



Artesian Well: Water Quality Test Results

Additional Test Information

A nitrate sample was not collected from the Artesian Well in 2020. The City collected two nitrate samples in 2021. One in January and one in July.

Definitions	
SRL	State Reporting Level - The minimum reporting level required by the State of Washington Department of Health (DOH)
MCL	Maximum Contaminant Level - The MCL is the maximum level allowed of a contaminant in water which is delivered to any user of a public water system
MCLG	Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG allows for a margin of safety.
Trigger Level	A level set by Washington State DOH that if compounds are detected above this level will trigger additional sampling.
mg/L	Milligrams per liter
NTU	Nephelometric Turbidity Unit – A unit of measurement for turbidity (cloudiness of water)
uS/cm	Unit of measurement for conductivity

pH - City of Olympia Water Sources (2021)

Water Source	pH Range
Artesian Well	6.9 – 7.7

pH scale: Zero is acidic like lemon juice, 7 is neutral and 14 is alkaline like baking soda.