



# Artesian Well: Water Quality Test Results

Contaminant*/Test Year**	Result	Unit of Measurement	SRL ***	Trigger Level ***	MCL ***
Arsenic (2018)	0.006	mg/L	0.001	0.01	0.01
Barium (2018)	0.007	mg/L	0.001	2	2
Cadmium (2018)	<0.001	mg/L	0.001	0.005	0.005
Chromium (2018)	<0.001	mg/L	0.001	0.1	0.1
Mercury (2018)	<0.0002	mg/L	0.0002	0.002	0.002
Selenium (2018)	<0.002	mg/L	0.002	0.05	0.05
Beryllium (2018)	<0.001	mg/L	0.0001	0.004	0.004
Nickel (2018)	<0.005	mg/L	0.005	0.1	0.1
Antimony (2018)	<0.001	mg/L	0.001	0.006	0.006
Thallium (2018)	<0.001	mg/L	0.001	0.002	0.002
Cyanide (2018)	<0.01	mg/L	0.01	0.2	0.2
Fluoride (2018)	<0.01	mg/L	0.1	2	4
Nitrite (2018)	<0.1	mg/L	0.1	0.5	1
Nitrate (2018)	<0.01	mg/L	0.1	5	10
Nitrate + Nitrite<N (2018)	<0.5	mg/L	0.5	5	10
Iron (2018)	0.09	mg/L	0.1	0.3	0.3
Manganese (2018)	0.263 ****	mg/L	0.001	0.05	0.05
Silver (2018)	<0.010	mg/L	0.010	0.05	0.05
Chloride (2018)	2.3	mg/L	0.1	250	250
Sulfate (2018)	<0.2	mg/L	0.2	250	250
Zinc (2018)	<0.005	mg/L	0.005	5	5
Sodium (2018)	6.11	mg/L	5	N/A	N/A
Hardness as Calcium Carbonate (2018)	61.4	mg/L	10	N/A	N/A
Conductivity (2018)	168	uS/cm	10	700	700
Turbidity (2018)	<0.1	NTU	0.1	1.0	1.0
Color (2018)	<5	Color Unit	5	15	15
Nickel (2018)	<0.001	mg/L	0.001	0.1	N/A
Lead (2018)	<0.001	mg/L	0.001	N/A	0.015
Copper (2018)	<0.005	mg/L	0.005	N/A	1.3

\* 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.



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 (2018)

Water Source	pH Average	pH Range
Artesian Well	7.7	7.4 – 8.0
Allison Springs	7.6	7.4 – 7.7
McAllister Wellfield	7.7	7.5 – 8.0
Shana Park	7.6	7.4 – 7.8

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

*NOTE: The following wells are not online and therefore do not have data: Hoffman, Kaiser and Indian Summer.*