

# 2022 Consumer Confidence Report

## Montgomery Gardens Water System PWSID 2120008

On September 18, 1998, the U.S. Environmental Protection Agency (EPA) adopted a rule requiring all water utilities to provide a detailed annual report informing its customers of the quality of their drinking water. Tyler Water Utilities is proud of our history of providing our customers with a safe and reliable supply of drinking water. In accordance with EPA requirements, the City of Tyler hereby provides this Annual Water Quality Report, which covers the period from January 1, 2022, to December 31, 2022.

For information regarding this report contact: **Annie Bates 903) 874-8244**

### REQUIRED INFORMATION

Some persons may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. *Cryptosporidium* is a tiny intestinal parasite found naturally in the environment. It is spread by human and animal waste. If ingested, cryptosporidium may cause cryptosporidiosis, an abdominal infection (symptoms include nausea, diarrhea, and abdominal cramps). Some of the ways *Cryptosporidium* can be spread include drinking contaminated water, eating contaminated food that is raw or undercooked, exposure to the feces of animals or infected individuals (i.e., changing diapers without washing hands afterward), or exposure to contaminated surfaces. Not everyone exposed to the organism becomes ill. However, Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline at (800)426-4791. En Espanol: Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono (903)874-8244

Our supplier the City of Tyler has tested for *Cryptosporidium* in both untreated and treated water. It has only been found in the untreated water supply and has not been found in the Tyler treated drinking water. Tyler works to protect the watershed from contamination and optimizes the treatment process. Although Tyler's water treatment process removes *Cryptosporidium*, immuno-compromised persons should consult their physician regarding appropriate precautions to avoid infection.

### SOURCES OF DRINKING WATER

Montgomery Gardens Water System receives raw surface water from two major sources. Raw water from Lake Tyler and Lake Tyler East, located approximately eight miles southeast of Tyler, is pumped to Golden Road Water Treatment Plant. Raw water from Lake Palestine, located approximately ten miles southwest of Tyler, is pumped to Lake Palestine Water Treatment Plant. At the treatment plants, raw water is treated, filtered, and disinfected before distribution. Tyler's water distribution system is also supplemented by eleven deep wells tapping the Carrizo-Wilcox aquifer. Tyler's wells are currently categorized as inactive, but would be available in an emergency.

### ADDITIONAL INFORMATION

To ensure tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at (800)426-4791. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These problems are not necessarily cause for health concern. For more information on taste, odor, or color of drinking water, please contact Community Water at (903)874-8244. TCEQ completed an assessment of your source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this water quality report. For more information on source water assessments and protection efforts at our system, call (903)939-8716.

### WATER QUALITY RESULTS

The following tables provide the water quality results of Montgomery Gardens drinking water. Please note that a list of definitions has been provided to help you understand the tables.

**DEFINITIONS**

- AL (Action Level)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Contaminant** - Any physical, chemical, biological or radiological substance or matter in water. The presence of contaminants does not necessarily indicate that the water poses a health risk.
- HRA Avg. (Highest Running Annual Average)** - The highest of four (4) values calculated by averaging each quarter's average result with the previous three (3) quarter's average results.
- LMPS (Lowest Monthly Percentage of Samples)** - The lowest of the monthly percentage of samples that meets the turbidity limit of <0.3 NTU.
- MCL (Maximum Contaminant Level)** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.
- MCLG (Maximum Contaminant Level Goal)** - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- N/A** - Not Applicable
- ND** - Indicates that the parameter tested below the detection limit.
- NTU (Nephelometric Turbidity Unit)** - A unit of turbidity determined by measuring the side scattering of light caused by particulate matter.
- Parameter** - a particular chemical, combination of chemicals or microbiological entity that can be assigned a value: commonly a concentration, but may also be a logical entity (present or absent)
- pCi/l (Picocuries per liter)** - A measure of radioactivity.
- ppb (Parts per Billion)** - In drinking water, one atom or molecule of a substance in one billion molecules of water. Example: One cent in 10 million dollars equals one ppb.
- ppm (Parts per Million)** - In drinking water, one atom or molecule of a substance in one million molecules of water. Example: One cent in 10 thousand dollars equals one ppm.
- TT (Treatment Technique)** - A required process intended to reduce the level of a parameter in drinking water.
- umho/cm** - A unit of measurement for conductivity.
- < (less than sign)** - The sign indicating the value was 'less than' or not detected at the detection limit of the analytical method or 'less than' the regulatory limit.

**Montgomery Gardens  
DRINKING WATER QUALITY MONITORING ANALYSIS**

January 1, 2022, to December 31, 2022

**Regulated at the Customer's Tap**

Parameters	Units	90th Percentile	MCL	MCLG	# of Sites Exceeding AL	Sources in Drinking Water
Copper	ppm	0.04	AL = 1.3	1.3	0	Erosion of natural deposits
Lead	ppm	0.015	AL = 1.5	0	0	Corrosion of customer plumbing

Montgomery Gardens last Lead and Copper Rule sampling was in 2020. The results for the 2020 lead and copper sampling indicated that our water system is below the action limit for lead and copper.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

**Regulated in the Distribution System**

Parameters	Units	Highest Level Detected	Range of Individual Samples	MCL	MCLG	Source in Drinking Water
*Total Trihalomethanes (TTHMs)	ppb	79	31.0 – 65.1	80	0	Chlorination byproduct
Total Haloacetic Acids	ppb	40	20.7 – 32.6	60	0	Chlorination byproduct

\* TTHMs – Some people who drink water containing TTHMs in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems and may have an increased risk of getting cancer.

Chloramines	ppm	Average of 1.63	0.9 – 2.4	4	4	Disinfectant to control microbes
Total Coliform Bacteria	Less than 5% per month		0 – 4	5%	0	Naturally present in the environment
Fecal coliform / <i>E. coli</i>	no samples were Positive for 2022			MCL = A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive.		

Fecal coliforms and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems.

**Regulated at the Treatment Plant**

Parameter	Limit (Treatment Technique)	Level Detection	MCL/MCLG	Source
Turbidity	Highest Single Measurement	1.0 NTU	0.22 NTU	N/A Soil runoff
	Lowest Monthly Percentage (%) Meeting			
	Limit	0.3 NTU	100%	

Measuring turbidity is required by state and federal law, and aids the City in determining the effectiveness of the clarification and filtration processes in removing particulate matter from drinking water. The City of Tyler met all turbidity requirements in 2022.

**Regulated at Treatment Plant and Wells**

Parameter	Units	Max	Range	MCL	MCLG	Source
Barium	ppm	0.049	0.039 – 0.058	2	2	Erosion of natural deposits
Fluoride	ppm	0.192	0.0597 – 0.324	4	4	Drinking water additive
Nitrate	ppm	0.267	0.267 – 0.267	10	10	Fertilizer runoff; Erosion of natural deposits

Nitrite (sample date 8/12/21)	Ppm	0.0529	0.0529 – 0.0529	1	1	Run off from fertilizer use; Leaching from septic, sewage, Erosion of natural deposits
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**Unregulated Parameters**

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of the unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. Any unregulated contaminants detected are reported in the following table. For additional information and data visit <https://www.epa.gov/dwucmr/fourth-unregulated-contaminant-monitoring-rule>, or call the Safe Water Hotline at (800-426-4791).

Constituent Parameter	Sampling Type	Units	Average	Range	MCL
HAA5	Distribution	ppb	20.5	20.7 – 32.6	N/A
Manganese	Distribution	ppm	<0.001	<0.001	N/A
<b>Secondary and Other Constituents</b>					

**Parameters**

Alkalinity, Total	Units	Average	Range	Maximum Secondary Constituent Level
Alkalinity, Bicarb.	ppm	37.3	31.0 – 36.6	N/A
Aluminum	ppm	0.019	0.015 – 0.022	N/A
Conductivity	umho/cm	261	209 – 313	0.20
Hardness, Total	ppm	31.8	6.63 – 57	N/A
Total Dissolved Solids	ppm	127	116 – 191	N/A
Total Organic Carbon	ppm	2.64	1.84 – 4.40	N/A
Calcium	ppm	10.1	4.13 – 16.0	N/A
Chloride	ppm	24.8	15.2 – 34.2	N/A
Magnesium	ppm	2.36	0.594 – 4.13	N/A
Manganese	ppm	<0.001	<0.001	N/A
Sodium	ppm	27.2	22.5 – 31.8	N/A
Copper	ppm	0.0014	<0.001 – 0.0028	N/A
Iron	ppm	<0.05	<0.05	N/A
Nickel	ppm	<0.001	<0.001 – 0.0011	N/A
Zinc	ppm	<0.005	<0.005	N/A
Monochloroacetic acid	ppm	2.12	<1.0 – 5.6	5.0
Dichloroacetic acid	ppb	12.4	6.5 – 17.9	N/A
Trichloroacetic acid	ppb	4.91	1.7 – 9.7	N/A
Monobromoacetic acid	ppb	<1.0	<1.0	N/A
Dibromoacetic acid	ppb	1.07	<1.0 – 2.3	N/A
Bromochloroacetic acid	ppb	4.86	3.3 – 7.7	N/A

**Other Parameters**

Antimony	Units	Result	MCL	MCLG
Arsenic	ppm	<0.001	0.001	6
Beryllium	ppm	<0.001	0.004	N/A
Cadmium	ppm	<0.001	0.005	4
Chromium	ppm	<0.001	0.1	5
Mercury	ppm	<0.0002	0.002	100
Selenium	ppm	<0.005	0.005	2
Silver	ppm	<0.001	0.1	50
Thallium	ppm	<0.001	0.002	N/A

**Radioactive Parameters**

Gross Alpha Emitters (2017)	pCi/l	<2.0	15	Source: Decay of natural & manmade deposits
Gross Beta Emitters (2017)	pCi/l	2.4	50	
Radium 228 (2017)	pCi/l	0.59	5	

**Water Loss Audit**

In the water loss audit submitted to the Texas Water Development Board for the time period of January through December 2022, our system lost an estimated 1,056,366,177 gallons of water. If you have any questions about the water loss audit please call 903-531-1238.

