

# 2023 Consumer Confidence Report for Public Water System MURRAY HILL WATER SYSTEM

This is your water quality report for January 1 to December 31, 2023

For more information regarding this report contact:

MURRAY HILL WATER SYSTEM provides ground water from the Trinity Aquifer located in Hill and Bosque Counties and purchases water from Arrowhead Water System.

Name: Tommy Bradley

Phone: (800) 338-6425 ext. 3315

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (800) 338-6425 ext. 2211.

## Definitions and Abbreviations

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The following tables contain scientific terms and measures, some of which may require explanation.

#### Action Level:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

#### Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

#### Level 1 Assessment:

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

#### Level 2 Assessment:

A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

#### Maximum Contaminant Level or MCL:

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

#### Maximum Contaminant Level Goal or MCLG:

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.

#### Maximum residual disinfectant level or MRDL:

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

#### Maximum residual disinfectant level goal or MRDLG:

The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

#### MFL

million fibers per liter (a measure of asbestos)

#### mrem:

millirems per year (a measure of radiation absorbed by the body)

#### na:

not applicable.

#### NTU

nephelometric turbidity units (a measure of turbidity)

#### pCi/L

picocuries per liter (a measure of radioactivity)

#### ppb:

micrograms per liter or parts per billion

#### ppm:

milligrams per liter or parts per million

#### ppq

parts per quadrillion, or picograms per liter (pg/L)

#### ppt

parts per trillion, or nanograms per liter (ng/L)

#### Treatment Technique or TT:

A required process intended to reduce the level of a contaminant in drinking water.

## Information about your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that 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.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons 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 providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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>.

### Public Participation Opportunities

Date: August 5, 2024

Time: 10:00 a.m.

Location: HILCO United Services, 4581 FM 933, Whitney, TX 76692

**Information about Source Water**

MURRAY HILL WATER SYSTEM purchases water from ARROWHEAD WATER SYSTEM. ARROWHEAD WATER SYSTEM provides ground water from the Trinity Aquifer located in Hill and Bosque Counties.

Water System Detail Information						
Water System No.:	TX1090038				Federal Type:	C
Water System Name:	ARROWHEAD WATER SYSTEM HILL				Federal Source:	GW
Principal County Served:	HILL				System Status:	A
Principal City Served:					Activity Date:	01-01-1913
PBCU Sample Summary Results						
MP Begin Date	Type	# Samples	Measure	Units	Analyte Code/Name	Last Sample Date
<a href="#">01-01-2019</a> 12-31-2021	90%	5	0.2	MG/L	CU90 - COPPER SUMMARY	08-10-2021
<a href="#">01-01-2019</a> 12-31-2021	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
<a href="#">01-01-2019</a> 12-31-2021	90%	5	0.0018	MG/L	PB90 - LEAD SUMMARY	08-10-2021
<a href="#">01-01-2019</a> 12-31-2021	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
<a href="#">01-01-2016</a> 12-31-2018	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
<a href="#">01-01-2016</a> 12-31-2018	90%	5	0.1	MG/L	CU90 - COPPER SUMMARY	08-08-2018
<a href="#">01-01-2016</a> 12-31-2018	90%	5	0	MG/L	PB90 - LEAD SUMMARY	08-08-2018
<a href="#">01-01-2016</a> 12-31-2018	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
<a href="#">01-01-2013</a> 12-31-2015	90%	5	0.09	MG/L	CU90 - COPPER SUMMARY	09-16-2015
<a href="#">01-01-2013</a> 12-31-2015	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
<a href="#">01-01-2013</a> 12-31-2015	90%	5	0	MG/L	PB90 - LEAD SUMMARY	09-16-2015
<a href="#">01-01-2013</a> 12-31-2015	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
<a href="#">01-01-2002</a> 12-31-2010	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	

<a href="#">01-01-2002</a> 12-31-2010	90%	5	0.0699	MG/L	CU90 - COPPER SUMMARY	07-20-2009
<a href="#">01-01-2002</a> 12-31-2010	90%	5	0.000139	MG/L	PB90 - LEAD SUMMARY	07-20-2009
<a href="#">01-01-2002</a> 12-31-2010	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	

### Water System Detail Information

Water System No.:	TX1090014	Federal Type:	C
Water System Name:	MURRAY HILL WATER SYSTEM	Federal Source:	GW
Principal County Served:	HILL	System Status:	A
Principal City Served:		Activity Date:	01-01-1913

### PBCU Sample Summary Results

MP Begin Date	Type	# Samples	Measure	Units	Analyte Code/Name	Last Sample Date
<a href="#">01-01-2019</a> 12-31-2021	90%	10	0.085	MG/L	CU90 - COPPER SUMMARY	08-10-2021
<a href="#">01-01-2019</a> 12-31-2021	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
<a href="#">01-01-2019</a> 12-31-2021	90%	10	0	MG/L	PB90 - LEAD SUMMARY	08-10-2021
<a href="#">01-01-2019</a> 12-31-2021	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
<a href="#">01-01-2016</a> 12-31-2018	90%	10	0.074	MG/L	CU90 - COPPER SUMMARY	08-08-2018
<a href="#">01-01-2016</a> 12-31-2018	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
<a href="#">01-01-2016</a> 12-31-2018	90%	10	0	MG/L	PB90 - LEAD SUMMARY	08-08-2018
<a href="#">01-01-2016</a> 12-31-2018	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
<a href="#">01-01-2013</a> 12-31-2015	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
<a href="#">01-01-2013</a> 12-31-2015	90%	10	0.085	MG/L	CU90 - COPPER SUMMARY	09-16-2015
<a href="#">01-01-2013</a> 12-31-2015	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	

<a href="#">01-01-2013</a> 12-31-2015	90%	10	0	MG/L	PB90 - LEAD SUMMARY	09-16-2015
<a href="#">01-01-2002</a> 12-31-2010	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
<a href="#">01-01-2002</a> 12-31-2010	90%	10	0.0738	MG/L	CU90 - COPPER SUMMARY	07-17-2009
<a href="#">01-01-2002</a> 12-31-2010	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
<a href="#">01-01-2002</a> 12-31-2010	90%	10	0.0011	MG/L	PB90 - LEAD SUMMARY	07-17-2009

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 is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact Tommy Bradley at (800) 338-6425 ext. 3315.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/10/2021	1.3	1.3	0.085	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

## 2023 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2023	2	1.5 - 1.5	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

\*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2023	4	3.64 - 3.64	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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\*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	10/05/2022	0.053	0.053 - 0.053	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.

Fluoride	2023	0.439	0.371 - 0.439	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2023	0.0386	0.0249 - 0.0386	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	10/22/2019	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.

#### Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine	2023	1.99	1.20 – 2.50	4	4	mg/L	N	Water additive used to control microbes.

