### WESTERN WATER COMPANY 2023 WATER QUALITY REPORT

### **IS MY DRINKING WATER SAFE?**

Water quality is the first priority at Western Water Company. Constant testing by the dedicated staff of certified operators and laboratory personnel ensure the highest standards for drinking water quality are being met at all times. The test results for 2023 show Western Water Company's water to be of the highest quality. If you have any questions about water quality, please contact Jim Swearingen at the Water Treatment Plant, weekdays at (513)899-3211 between 8:00 A.M. and 5:00 P.M.

### WHAT IS THE SOURCE OF MY WATER?

Western Water Company's water comes from an aquifer along the Little Miami River in Warren County. Western Water also purchases water from other water systems and then distributes the various supplies to their customers.

	Percent	Source
Western Water Company	57%	Little Miami River Aquifer
		Warren County
Cincinnati Water Works	43%	Ohio River, and Great Miami Aquifer

# WHY ARE THERE CONTAMINANTS IN MY WATER?

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.

# WHAT ARE SOURCES OF CONTAMINANTION TO DRINKING WATER?

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

Contaminants that may be present in source water include: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; (B) 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; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm runoff and residential uses; (D) 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; (E) 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.

### **SUSCEPTIBILITY ANALYSIS**

The aquifer that supplies drinking water to Western Water Company has a high susceptibility to contamination, as indicated by the presence of nitrates in the treated water in 1994 and 1996. The high susceptibility is due to the sensitive nature of the aquifer in which the drinking water wells are located. These wells are near existing potential contaminant sources which have been identified. Further nitrate testing since 1996 has indicated very low levels of nitrates in the finished water. These results are listed in this report and previous Consumer Confidence Reports, you the customer have received over the past few years. Although the aquifer is susceptible to contamination, our testing indicates nitrates are at very low levels in the finished water. Please contact Jim Swearingen at 513-899-3211 Ext. 5 if you would like more information about the assessment.

### **DO I NEED TO TAKE SPECIAL PRECAUTIONS?**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno compromised persons such as persons with cancer undergoing chemo therapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800)426-4791.

# IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OUR OPERATIONS?

In 2021, our PWS was sampled as part of the State of Ohio's Drinking Water Per- and Polyfluoroalkyl Substances (PFAS) Sampling Initiative. Results from this sampling indicated PFAS were detected in our drinking water below the action level established by Ohio EPA. Follow up monitoring is being conducted. For more information about PFAS, and to view our latest results, please visit pfas.ohio.gov.

In 2023 Western Water Company had an unconditional license to operate our water system.

### **TURBIDITY**

Western Water Company purchases water from other water systems as explained in the source water section. We are required to report on the turbidity as an indication of the effectiveness or their filtration system. Turbidity is a measure of the cloudiness of water. The limit set by the EPA is 0.3 NTU in 95% of the samples analyzed each month, and shall not exceed 1 NTU at any time. As reported in GCWW's Data sheet provided with this CCR GCWW's highest recorded turbidity result for 2023 was .09 NTU at the Miller Water Plant and the lowest monthly percentage of samples meeting the turbidity limits was 100%.

### **HOW CAN I GET INVOLVED?**

Our Water Officials will meet to answer questions each month at the Treatment Plant. Please feel free to participate. Call Jim Swearingen for dates and times at 1-513-899-3211.

### **LEAD CAN CAUSE SERIOUS HEALTH PROBLEMS**

"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. Western Water Company 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 thirty seconds to two 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. A list of laboratories certified in the State of Ohio to test for lead may be found at <a href="http://www.epa.state.oh.us/ddagw or by calling 614-644-2752">http://www.epa.state.oh.us/ddagw or by calling 614-644-2752</a>. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800-426-4719 or at <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>".

WESTERN WATER CO. 2023 WATER QUALITY DATA SHEET

	MESIEKI	N WATER CO.	2023 WAT	ER QUALI	I Y DATA SHEET		
CONTAMINANTS	YEAR SAMPLE	DETECTED	MCL	MCLG	RANGE OF DETECTION	VIOLATION	SOURCE OF CONTAMINANTS
. <del>-</del> -	,	1	INORGAN	IC (REGUI	ATED) CONTAMIN	ANTS	
FLUORIDE	2023	1,01 mg/l	4.0 mg/L	4.0 mg/L	0,81-1,23 mg/l	NONE	EROSION OF NATURAL DEPOSITS, WATER ADDITIVE WHICH PROMOTES STRONG TEETH, DISCHARGE FROM FERTILIZER AND ALUMINUM FACTORIES
NITRATES	2020	0.93 mg/l	10.0 mg/L	10,0 mg/L	n/a	NONE	RUNOFF FROM FERTILIZER USE; LEACHING FROM SEPTIC TANKS SEWAGE; EROSION OF NATURAL DEPOSITS
BARIUM	2019		2 MG/L	2MG/L	N/A	NONE	Erosion of natural deposits discharge from drilling was tesand metal refinerles
MICROBIOLOGICAL	CONTAMI	NANTS					
E.coli (RTCR)	2023	1 sample	П	n/a	n/a	NONE	*** See below
RESIDUAL DISINFE	TANTS						
TOTAL CHLORINE	2023	1.01 mg/l	MRDL=4	MRDLG=4	.91-1.05 mg/l	NONE	WATER ADDATIVE TO CONTROL MICROBES
			ORGANI	C CONTAN	IINANTS (REGULA	TED)	
HALOACETIC ACID 5	2023	11.2 ug/l	60 ug/L	N/A	3.9-13.3 ug/l	NONE	BY PRODUCT OF DRINKING WATER CHLORINATION
TTHM'S	2023	44,375 ug/l	80 ug/L	N/A	15.4 - 68.8 ug/l	NONE	BY PRODUCT OF DRINKING WATER CHLORINATION
LEAD AND COPPER	<b>1</b>						
LEAD	2023	1.10 ug/l	AL=15.0 ug/l	Zero	<0.6 - 3.0 ug/L	NONE	CORROSION OF HOUSE-HOLD PLUMBING SYSTEMS
	Zero out of	30 samples wa	as found to	have lead le	evels in excess of the	e lead actio	n level of 15 ug/L (80ug/L)
							· · · · · · · · · · · · · · · · · · ·

.007 - 1.320 mg/L

CORROSION OF HOUSE-HOLD PLUMBING SYSTEMS

### Unregulated Contaminant Monitoring Rule-5th round(UCMR5)

0.220 mg/l

Unregulated contaminants are those for which U.S. EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of these contaminants in drinking water and whether future regulation is warranted. Western Water Co. participated in the fifth round of the Unregulated Contaminant Monitoring Rule (UCMR5). For more information on UCMR5 results please call 513-722-1682.

1.3 mg/L

	Year		UCMR5	Average Level			
Substance	Detected	Unit	mrl	Detected	Range of Detection	Violation	
Perflourooctanesulfon							
ic acid (PFOS)	2023	ppt	4	9.8	5.5-14.1	na	

One out of 30 samples was found to have copper levels in excess of the copper action level of 1.3 mg/l

AL=1.3

mg/L

### **KEY TO ABBREVIATIONS**

MCI - MAXIMUM CONTAMINANT LEVEL - THE HIGHEST LEVEL OF CONTAMINANT ALLOWED IN DRINKING WATER

MCLG - MAXIMUM CONTAMINANT LEVEL GOAL - THE LEVEL OF CONTAMINANT IN DRINKING WATER BELOW WHICH

THERE IS NO KNOWN RISK TO HEALTH

MRDLG-MAXIMUM RESIDUAL DISINFECTANT LEVEL GOAL; THE LEVEL OF RESIDUAL DISINFECTANT BELOW WHICH THERE IS NO KNOWN OR EXPECTED RISK TO HEALTH MRDL-MAXIMUM RESIDUAL DISINFECTANT LEVEL; THE HIGHEST RESIDUAL DISINFECTANT LEVEL ALLOWED

AL - ACTION LEVEL - THE CONCENTRATION OF A CONTAMINANT WHICH TRIGGERS A TREATMENT OF OTHER

REQUIREMENT WHICH A WATER SYSTEM MUST FOLLOW

TT- TREATMENT TECHNIQUE-A REQUIRED PROCESS INTENDED TO REDUCE THE LEVEL OF A CONTAMINANT IN DRINKING WATER

MG/L - MILLIGRAMS PER LITER (PPM)

UG/L - MICROGRAMS PER LITER (PPB)

N/R - NOT REGULATED

COPPER

PCI/L - PICO CURIES PER LITER, A MEASURE OF RADIOACTIVITY IN WATER

MREMYR. - MILLIREMS PER YEAR, A MEASURE OF RADIATION ABSORBED BY THE BODY

ND - NOT DETECTABLE AT SAMPLE TIME

NA - NOT APPLICABLE

MRDL - MAXIMUM RESIDUAL DISINFECTION LEVEL

 ${\sf MRDLG-MAXIMUM\ RESIDUAL\ DISINFECTION\ LEVEL\ GOAL}$ 

<sup>\*\*\*</sup> One sample was found posative , four repeat samples were collected all were negative. in July 2023

<sup>\*\*\*</sup> Naturally present in the environment.

# 2023 CCR Data for GCWW Wholesale Customers

Regulated Contaminants : Contaminants subject to a Maximum Contaminant Level (MCL), Action Level (AL) or Tree

									morton states			ypical source of Contamination
Substance	됴	Maximum Allowed (MCL, AL, TT)*	MCLG*	Highest Compliance Level Detected	Range of Detections	Violation	Year Sampled	Highest Compliance Level Detected	Range of Detections	Violation	Year Sampled	
Fluoride	ppm	4.0	4.0	0.86	0.73-1.0	No	2023	88.0	0.75-0.95	8	2023	Additive which promotes strong teeth. May come from erosion of natural deposits
Nitrate	ppm	10	10	1.15	0.56-1.15	N <sub>o</sub>	2023	1.37	nd - 1.37	S	2023	Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits
Turbidity	Ę	TT1 < 1 NTU Max and	വജ	0.09	0.04-0.09	ŏ	2023	חר	nr n	No	na	Soil runoff
		TT2 < 0.3 NTU 95% of the time	na	100% < 0.3 NTU			2023					
Total Organic Carbon		7	ಗಾ	2.38	2,06-3,26	No	2023	JU	ar .	₹	na	Naturally present in the environment.
Barium	ppm	2	2	0.03	na <sup>2</sup>	Š	2023	0.020	na²	No	2023	2023 Erosion of natural deposits; Discharge of drilling wastes; Discharge from metal refinenes.

Unregulated Contaminants for which EPA requires monitoring to determine where certain substances occur and whether it needs to regulate those substances.

Bolton

					ĺ						Henry to come a many
Substance	Unit	MCLG*	Average Level Detected	Range of Detections	Violation	Year Sampled	Average Level Detected	Range of Detections	Violation	Year Sampled	
Chloroform	ppb	70	4.03	na²	na	2023	0.9	R3.2	na	2023	
Bromodichloromethane	ppb	0	4.94	na²	na	2023	2.06	ಷ್ಟ	na	2023	
Dibromochloromethane	ppb	60	3.99	na²	na	2023	4.82	ng <sub>2</sub>	na		Byproducts of drinking water disinfection,
Bromoform	ppo	0	nd	na <sup>2</sup>	na	2023	4.45	na²	na	ı	
Sulfate	ppm	na	57	44 - 72	na	2023	46	45 - 46	na	2023	
Unregulated Contaminant N	Konitorin	Contaminant Monitoring Rule - fifth round (UCMR5)									

nant Monitoring Rule (UCMRS). U.S. EPA issues a list of unre that may be present in drinking water but are not yet subject to U.S. EPA drinking d. For more information on UCMRS results, please call 513,591,7701.

				Miller Water			And the second	Bolto	Bolton Water		Typical Source of Contamination
Substance	Unit	UCMR5 MRL*	Average Level Detected	Range of Detection	Violation	Year Sampled	Average Level Range of Detected Detection	Range of Detection	Violation	Year	
fluorooctanoic acid OA)	ppt	4	nd	na	na .	2023	_	ಷ	na		Perfluoralkyl and polyfluoralkyl substances (PFAS compounds) are manmade chemicals that have been used in consumer products since the 1000s counts in
flourooctanesulfonic	ppt	4	nd	na	na	2023	5.2	4.2-6.1	na	2023	the manufacture of non-stick coatings, clothing, carpet, and food wrappers.  Research into the harm that PFAS compounds may rause to human health is
afluoropropylene oxide er acid (HFPO-DA or )X)	Ppt	Os.	æ.	æ	na	2023	nd	na	na	2023	ongoing.  GCWW is already working with the Ohio EPA to investigate source water mailty.
luorobutanesutfonic (PFBS)	ppt	ω	nd	na	na	2023	3.9	3.7-4.1	па	2023	and operational or treatment modifications to minimize PFAS levels in the drinking water. Please see GCWW's website for more information -
fluorobutanoic acid BA)	Þþ	5	nd	กล	na	2023	5.2	5.1-5.2	na	2023	https://www.cincinnati-oh.gov/water/water-quality-and-treatment/water-your-health/pfas/

Perflu (PFO) Perflou acid (F Hexaff dimer GenX) Perfluu acid (F Perfluu

Delected contaminants from the plant tap

\*\*COVIW collects one sample per year.\*\*

\*\*The value reported under "Highest Compliance Level Detected" for Total Organic Carbon (TOC) is the lowest ratio between percentage of TOC actually removed to the percentage of TOC required to be removed. A value of greater than one (1) indicates that the water system is in compliance with TOC removal requirements. A value of less than one (1) indicates a violation of the TOC removal requirements.

# Results of GCWW Voluntary Monitoring for Cryptosporidium:

GCWW has tested for Cryptosporidium (Crypto) in treated waters and has never detected it.

Crypto is a microscopic microorganism that, when ingested, can result in diarrhea, fever and other gastrointesthial symptoms. GCWW also tested for Crypto in the Ohio River surface water and it was detected in 1 of 4 samples during 2023. The organism is found in surface waters and comes from animal and human wastes which enter the watershed. Crypto is eliminated by an effective combination of treatment including sedimentation, filtration, and districction.

Sodium: GCWW has tested for sodium in treated water as it leaves the treatment plants and has found 25 mg (miligrams) per liter in the Miller water and 36 mg per liter in the Bolton water. There are appr ximately 4 cups in a liter.

Turbidity: We are required to report on the furbidity as an indication of the effectiveness of our filtration system. Turbidity is a measure of the cloudiness of water. The turbidity limit set by the EPA is 0.3 NTU in 95% of the samples analyzed each month, and shall not exceed 1 NTU at any time. As reported in the table above, GCWW's highest recorded turbidity result for 2023 was 0.09 NTU (Affler Water) and the lowest monthly percentage of samples meeting the turbidity limits was 100%.

GCWW has a current unconditioned license to operate our water system. GCWW was in compliance with all state primary drinking water rules during 2023.

The Miller Treatment Plant uses the Ohio River as its source water. As with all surface waters, the Ohio EPA has classified the Ohio River as highly susceptible to contamination. The Ohio EPA has also classified the portion of the Great Marni Buried Valley Aquifer that supplies water to the well fields for the Bolton Treatment Plant as highly susceptible to contamination. It does not have an overlying protective day layer, the ground water has low levels of nitrate, and there are potential sources of contamination nearby.

ppb: parts per billion or micrograms per liter ppm: parts per million or milligrams per liter na: not applicable

measure clarity in drinking water nd: not detectable at testing limits nr. not regulated NTU: Nephelometric Turbidity Unit, used to

the quality of the data reported for UCMR5.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking Minimum Reporting Level or MRL: The level of a contaminant that can reliably be detected using the specified analytical method. This level was established by EPA to ensure consistency in

water below which there is no known or expected risk to health. MCLGs allow for a margin

available treatment technology.

Action Level or AL: The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system shall follow.

Treatment Technique or TT: A method for treating water to achieve acceptable levels of the contaminants in lieu of resublishing a maximum contaminant level.

The < symbol: A symbol which means less than, A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected. allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best Maximum Contaminant Level or MCL: The highest level of a contaminant that is