### **FAYETTEVILLE UTILITIES**

### June 15, 2023

### **DRINKING WATER CONSUMER CONFIDENCEREPORT FOR 2022**

### License to Operate (LTO) Status Information

In 2022 we had an unconditional license to operate our water system.

### How do I participate in decisions concerning my drinking water?

Public participation and comments are encouraged, no public meetings are held, but if you would like to participate or comment please contact:

Village of Fayetteville Utilities

Andy Huber

81 West Pike Street

Fayetteville, OHIO 45118

Phone: 513 875 3535 EXT. 3

www.villageoffayetteville.org

The Village of Fayetteville PWS #OH0800411 has furnished this report to provide information to you, the consumer on the quality of our drinking water.

The Village of Fayetteville receives all its water from Western Water Company of Morrow with its plant at Little Miami Aquifer, Warren County. Western Water Company also uses water from The City of Cincinnati Water Works and Brown County Rural Water.

Attached are copies of Western Water's report on the source of contamination to drinking water. Information on contaminants and the EPA Hotline for safe drinking water (800-426-4791.)

In addition to these reports The Village of Fayetteville takes daily chlorine samples and a monthly bacteria sample collected by a level 1 Certified Supervisor and sent to MASI Lab for testing.

Copies of all these reports are available by calling Fayetteville Utilities @ 513-875-3535 EXT 3

Wester Water's Source Water Assessment Report is available for viewing at the following URL:http://western-h2o.com/wp-content/uploads/2023/06/wwc-water-quality-report-2022.pdf

## WESTERN WATER COMPANY 2022 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 2022 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.

Western Water Company	Percent 56%	Source Little Miami River Aquifer Warren County
Cincinnati Water Works	43%	Ohio River, and Great Miami Aquifer
Brown County Rural Water	1%	Ohio River Valley 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, pends, 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, RPA 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.

On 11/09/2022 we were informed that one of our routine bacteria samples collected on 11/08/2022 was total coliform positive. As required by the Ground Water Rule, we collected 7 samples from our wellfield for fecal contamination analysis. WE found well #1 was positive for e-coli contamination. Inadequately treated or inadequately protected water may contain disease causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps and associated headaches. Fecal indicators are microbes whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems. After receiving the results of the routine total coliform positive the wells were turned off and another source was used. After finding a positive result in well #1 we had the well pulled from the ground, then disinfected, re-installed and 4 additional samples were taken from well #1. On 11/21/2022 we were informed that all 4 samples were negative for bacteria. During this period in question the well was not used until samples were found to be negative.

There is a revision to the 2021 CCR concerning the reported Lead and Copper 90th percentile. Lead was reported at <5 ppb, but should have been 1.3 ppb. Copper was reported at .648 ppb but should have been .455 ppb.

In 2022 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 2022 was .11 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.cpa.state.oh.us/ddagw or by cailing 614-644-2752">http://www.cpa.state.oh.us/ddagw or by cailing 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.cpa.gov/safewater/lead">http://www.cpa.gov/safewater/lead</a>".

## **Table of Detected Contaminants**

Listed below is information on those contaminants that were found in the **Brown County Rural Water Association** drinking water.

## **TABLE OF DETECTED CONTAMINANTS**

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants	
Residual Disinfectants								
Total Chlorine (ppm)	MRDLG = 4	MRDL = 4	1.25	1.22 - 1.28	No	2022	Water additive used to control microbes.	
Inorganic Contaminants								
Nitrate (ppm)	10	10	0.93	NA	No	2022	Runoff from fertilizers, erosion of natural deposits	
Fluoride (ppm)	4	4	0.93	0.88- 0.97	No	2022	Water additive required by State of Ohio E.P.A.	
Antimony (ppm)	0.006	0.006	<3	NA	No	2020	Discharge from refineries; fine retardants; ceranics; electronics	
Агеспіс (ррш)	0	0.010	∢	NA	No	2020	Erosion of natural deposits; runoff from industrial sites	
Selenium (ppm)	0.05	0.05	⊲	NA	No	2020	Discharge from refineries and mines: crosion of natural deposits.	
Thallium (ppm)	0.0005	0.002	<1	NA	No	2020	Discharge from factories	
Disinfection Byproducts								
Total Trihalomethanes (ppb)	NA	80	28.3	23.4 – 28.3	No	2022	By product of drinking water chlorination.	
HAA5 (ppb)	NA	60	3.8	3.2-3.8	No	2022	By-product of drinking water chlorination.	

Lead and Copper								
Lead and Copper	MCLG	44	90 <sup>th</sup> percentile	# of sites found above the AL	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Lead (ppb)	0	15	0.0	0-30	nd-8.9	No	2020	Corrasion of household plumbing systems.
Copper (ppm)	1.3	1.3	0.0	0-30	nd	No	2020	Corrosion of household plumbing systems.
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Definitions of some terms contained within this report.

Maximum Contaminant Level Goal (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 Contaminant level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Parts per Million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

Parts per Billion (ppb) or Micrograms per Liter (µg/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of 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.

Maximum Residual Disinfectant Level (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.

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

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.

Picocuries per liter (pCi/L): A common measure of radioactivity.

CONTAMBNANTS	CONTAMINANTS YEAR SAMPLE		MCE.	MCLG	RANGE OF DETECTION	VIOLATION	SOURCE OF
	1 47 4113 1111		GANIC (RE	GIR ATEM	CONTAMINANTS	<u></u>	CONTAMINANTS
FLUORIDE	2022	1.114 rag/t	4.0 mg/L	4.0 mg/L	0.75-1.19 mg/l	NONE	EROSION OF MATURAL DEPOSITS. WATER MEDITOR WASHINGTON STRONG TEETAL DISCHARGE FROM FERTH IZER AND AUSTRELIE ALEGORIES.
NITRATES	2020	0.93 ug/l	10.G mg#	10.0 mg/L	, ru/a	NONE	FLINGFF FROM FERTE LYPR USE: LEACHING FROM 85-TAC TANKS, BLAYAGE: ERIORTON OF MATURAL DIEPOSTYS
BARIUM	2019	0,0479 MG/L	2 MG/L	2MG/L	N/A	NONE	Erenten ist attitud Empressensistergen en eren ig medianand gestat rejensisten
MICROBIOLOGICAL	CONTAMIN	ANTS				1	
E.coli (RTCR)	2022	1 sample	TT.	nta	n/a	NONE	Sea Selue
RESIDUAL DISINFEC	TANTS						
TOTAL CHLORINE	2022	1.03 mg/l	MREDI.=4	MRDLG=4	.96-1.09 mg/l	NONE	WATER ADDATIVE TO CONTROL MICRORES
		ORG	ANIC CON	TAMINANT	S (REGULATED)		1
HALOAGEBIC ACID-5	2022	11.3 ug/i	60 ugAL	N/A	4.4-13.3 upl	NONE	SY PRODUCT OF DEBURBE WATER ORLOROUSEDON
TTHE	2022	41.6 ug/i	80 ugA.	N/A	14.6-39.3 ug#	NONE	BY PRODUCT OF DRINGING MATER CRECIBIATION
LEAD AND COPPER			1	<u> </u>		1	
LEAD	2022	1.20 ug/l	ÁL≃15,8 ug/f	Zero	<0,6 - 80 ug/L	NONE	CURROSION OF HOUSEHOLD PLIASING SYSTEMS
	One out of	30 samples wa	ss found to	have lead le	vels in excess of th	e lead actio	n level of 15 ug/L (80ug/L)
			At ==13			1	COMPANY OF PARKET PARKET

LEAD AND CUPPER	1		<u> </u>	<u>.                                    </u>			į.					
LEAD	2022	1.20 ug/l	AL=15.8 ug/f	Zero	<6,6 - 80 ug/L	NONE	CURRORIGN OF HOUSE-HOLD PLINESHING SYSTEMS					
	One out of 30 samples was found to have lead levels in excess of the lead action level of 15 ug/L (80ug/L)											
COPPER	2022	0.459 mg/l	At=1.3 mg/L	1.3 mg/L	.005641 mg/L	NONE	SASTENS CONSCIENCE HANGES-HANTO SA COMBINES					
Zero out of 30 samples was found to have copper levels in excess of the copper action level of 1.3 mg/l												

<sup>\*\*\*</sup> One well was positive for bacteria after disinfection four repeat samples were collected all were negative.

### KEY TO ABBREVIATIONS

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

MCI.G - MAXIMUM CONTAMINANT LEVEL GOAL - THE LEVEL OF CONTAMINANT IN DRINKING WATER BELOW WHICH

THERE IS NO KNOWN RISK TO HEALTH

MRDLG-MAXIMUM RESPONDED FIRST LEVEL GOAL, THE LEVEL OF RESIDUAL DISINFECTANT BELOW WHICH THERE IS NO KNOWN OR EXPECTED RISK TO HEALTH HEALTH

MROU-MAXIMUM RESIDUAL DISIRFECTANT LEVEL: THE HIGHEST RESIDUAL DISIRFECTANT LEVEL ALLOWED

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

REQUIREMENT WHICH A WATER SYSTEM MUST FOLLOW

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

MG/L - MILLIGRAMS PER LITER (PPM)

UG/L - MICROGRAMS PER LITER (PPB)

N/R - NOT REGULATED

PCVL - PICO CURIES PER LITER, A MEASURE OF RADIOACTIVITY IN WATER

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

NO - NOT DETECTABLE AT SAMPLE TIME

The second secon

NA - NOT APPLICABLE

MRDL - MAXIMUM RESIDUAL DISINFECTION LEVEL

MRDLG - MAXIMUM RESIDUAL DISINFECTION LEVEL GOAL

<sup>\*\*\*</sup> Typical Source of Contaminants, Human and animal fecal waste.

### 2022 CCR Data for GCWW Wholesale Customers

Requisted Contaminents<sup>1</sup>: Contaminents subject to a Maximum Contaminent Level (MCL), Action Level (AL) or Treatment Technique (TT)\*

	•	<del> </del>		, , , , , , , , , , , , , , , , , , ,	Miller Water	Bolton Water				Typical Source of Contamination		
Substance	∪nit	Meximum Allowed (MGL, AL, TT)*	MCLG*	Highest Compilance Level Detected	Runge of Detectors	Violation	Year Sampled	Highest Complance Level Datected	Range of Estections	Violetion	Sampled	
Fluoride	<b>DD171</b>	4.0	4.0	0.87	0.65-0.98	No	2022	0.86	0.74-0.97	No		Additive which promotes strong teeth. May come from erozion of natural deposits.
Nitrate	DOITI	10	10	0.94	0.64-0.94	No	2022	1.79	nd 1.79	Na	2022	Hursoff from fertilizer use, leaching from septic tanks, sewage, erotion of natural deposits.
Turbidity	MTU	TT1 < 1NTU Max and	ne	0.11	0.08-0.11	No	2022	IN	nsr .	Nio	ne .	Soll nnoff
1		TT2 < 0.3 NTU 95% of the time	na	100% < 0.9 NTU						ł		
Total Organic Carbon <sup>3</sup>	<b></b>	TT	na	1.68	1,60-3,49	No	2022	ar .	nr	No	ne	Netwally present in the environment.
Berlym	PPHT	2	2	0.04	ra <sup>2</sup>	No	2022	0.014	na*	No	2022	Erosion of natural deposits; Discharge of drilling wastes: Discharge from metal refination.

Unrequisted Contaminents 1 for which EPA requires mentiodes to determine where certain substances occur and whether it needs to regulate those substances.

Miles Water								Boiton Water					
Substance	Unft	MCLG*	Average Range of Detections		Violetion	Year Sampled	Avanege Level Detacted	Range of Detections	Violation	Year Sampled			
Ch'oraform	ciqq	70	3.79	næ²	na	2322	1.06	ne²	na.	2022			
Bromedichleromethene	ppb	0	3.93	na <sup>2</sup>	NB	2022	2.95	ne	n/a	2022			
Dibromoch joromethane	ppb	60	3,43	.082	ne ne	2022	8.38	na na	ηen	2022			
Bromoform	gpb	0	nd	n# <sup>2</sup>	De	2022	5.94	пя <sup>2</sup>	nea .	2022			
Suffate .	ppry	ne ne	59	43 - 74	me	2022	42	40 - 43	na	2022			

Detected conteminents from the plant top

<sup>2</sup>GCWW collects one sample per year.

The value reported under "Highest Compilance Level Defected" for Total Organic Carbon (TOD) is he lowest ratio between percentage of TOD actually removed to the percentage of TOD required to be removed. A value of greater than one (1) indicates that the water system is in compilance with TOC removal requirements. A value of less than one (1) indicates to volution of the recurrence.

### Results of GCWW Voluntary Monitoring for Gryptosporkdum:

GCWW has lested for Cryptosporidium (Crypto) in Inested waters and has never detected it.

Ctypto is a microscopic microorganism that, when ingested, can result in derrives, fever end other gastrointestinal symptoms.

GCWW also tested for Choto in the Otio River surface water and it was not detacted in 9 samples during 2022. The

organism is found in surface weights and comes from swinned and human wastes which enter the weights and comes from swinned and human wastes which enter the weights and comes from swinned and human wastes which enter the weights and comes from swinned and human wastes which enter the weights and comes from swinned and human wastes which enter the weights are

by an effective combination inducting estimentation, fitration, and disinfection.

Southum: GCWW has based for sodium in treated water as it leaves the freshment plants and has found 90 mg (milionams) per liter in the Millor water and 28 mg per liter in the Boton water. There are approximately 4 cups in a liter,

Turbidity: We are required to report on the turbidity as an indication of this effectiveness of our filtration system. Turbidity is a measure of the cloudiness of weter. The turbidity limit set by the SPA is 0.3 NTU in 95% of the samples analyzed each month, and shell not exceed 1 NTU at any time. As reported in the table above, GCWW's highest recorded turbidity result for 2022 was 0.11 NTU (Allier Water) and the lowest monthly percontage of samples mosting the strictly limits was 100%.

GCWW has a current unconditioned. Ilconse to operate our water system. GCWW was in compliance with as state primary drinking water rules during 2022.

The Milar Treatment Plant uses the Onle River as its source water, As with all surface waters, the Onlo EPA has also destitled in Onlo River as highly susceptible to contamination. The Onlo EPA has also classified the parties of the Great Maria Shiphy susceptible to contamination. It does not have an overlying protective claysays, the pround water has low levels or filtrate, such there are potential sources of contamination nearby.

#### Abbraviations

high: parts per billion or militrograme per lifer pass; parts per milition or militigrams per lifer net not applicable NTU: Nephelometric Turbidity Unit, used to measure date it in drinking water not not defoctable attesting limits not not regulated

### \*Definitions

Meximum Contaminant Level Goal or MCLG: The level of a contaminant in diraking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Messimum Conteminant Level or MCL: The highest level of a conteminant trail is altowed in thinking water. MCL are set at a dose to the MCLGs as feasible using the best available beautinal behindlegy.

Aption Level or AL: The concentration of a conteminant, which, if exceeded, higgars 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 conteminants in lieu of satabishing 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.