WESTERN WATER COMPANY 2018 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 2018 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 59%	Source Little Miami River Aquifer Warren County
Cincinnati Water Works	40%	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, 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?

The Ohio EPA requires us to test our water on a regular basis to ensure its safety. Western Water Company had no violations to report for the 2018 sampling. In 2018 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. Two of these are required to monitor for turbidity so we are required to show these results on our report. Turbidity does not present any risk to your health. They monitor turbidity, which is a measure of cloudiness of water, because it is a good indicator that filtration systems are functioning properly.

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 http://www.epa.state.oh.us/ddagw or by calling 614-644-2752. 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 http://www.epa.gov/safewater/lead".

REVISED 02/19/2020

			018 Western Wate	er Company Water (Quality Data		
CONTAMINANTS	YEAR SAMPLE	DETECTIO N LEVEL	MCL	MCLG	RANGE OF DETECTION	VIOLATION	SOURCE OF CONTAMINANTS
			RGANIC (REG	ULATED) CON		93.1	CONTINUING
FLUORIDE	2018	1.13 mg/l	4.0 mg/L	4.0 mg/L	0.89-1.27 mg/l	NONE	EROSION OF NATURAL DEPOSITS, WATER ADDITIVE WHICH PROMOTES STRONG TEETH. DISCHARGE FROM FERTILIZER AND ALUMINUI FACTORIES RUNOFF FROM FERTILIZER USE: LEACHING
NITRATES	2018	<.50 ug/l	10.0 mg/L	10.0 mg/L	n/a	NONE	FROM SEPTIC TANKS, SEWAGE; EROSION OF NATURAL DEPOSITS
LEAD	2018	<5.0 ug/l	AL=15.0 ug/l	AL=15.0 ug/l	n/a	NONE	CORROSION OF HOUSE-HOLD PLUMBING SYSTEMS
	Zero out o	f 30 samples	was found to ha	ave lead levels in	excess of the	ead action	level of 15ppb
COPPER	2018	0.768 mg/l	AL=1.3 mg/l	AL=1.3 mg/l	n/a	NONE	CORROSION OF HOUSE-HOLD PLUMBING SYSTEMS
70711 001150711				100 A	7.5 4.6 4.6 4.6	La caracteristic de la car	ction level of 1.3 ppm
TOTAL COLIFORM	2018	0.00%	0	0	0	NONE	Naturally present in the environment.
TOTAL CHLORINE	2018	1.20 mg/l	MRDLG=4	MRDLG=4	.60-1.50 mg/l	NONE	WATER ADDATIVE TO CONTROL MICROBES
BARIUM	2018	0.045 mg/l	2 mg/l	2 mg/l	n/a	NONE	Erosion of natural deposits Discgarge from drilling wastes and metal refineries
		OF	RGANIC CONT	AMINANTS (RE	GULATED)		
HALOACITIC ACID 5	2018	<6.0 ug/l	60 ug/L	N/A	<6.0 ug/l	NONE	BY PRODUCT OF DRINKING WATER CHLORINATION
TTHM'S	2018	37.5 ug/l	80 ug/L	N/A	29.4-37.5 ug/l	NONE	BY PRODUCT OF DRINKING WATER CHLORINATION
<u> </u>			KEV TO	ADDDEN/IATIO	10	<u> </u>	
				ABBREVIATIO	1 .		() 12
MCI - MAXIMUM CONTAMINA	NI LEVEL - II	HE HIGHEST LEV	VEL OF CONTAMIN	NANT ALLOWED IN	DRINKING WATER	(0.00
MCLG - MAXIMUM CONTAMII	MANTIEVEL C	COAL THE LEVI	EL OE CONTAMINA	NIT IN DRINKING V	VATED BELOW WIL	IICH	CA CONTRACTOR OF THE CONTRACTO
THERE IS NO KNOWN RISK	1 1 1 1 1 1 1 1	SOAL - THE LEVI	EL OF CONTAINING	ANT IN DICINITING V	VATER BELOW WI	IIOT	
AL ACTION LEVEL THE CO	NICENTERATIO	N OF A CONTAI	AINIANIT VARILOUI TE	NOCEDE A TREAT	MENT OF OTHER		1
AL - ACTION LEVEL - THE CO REQUIREMENT WHICH A WA	2.7.0			IGGERS A TREAT	WENT OF OTHER		2
TT- TREATMENT TECHNIQUI				PE THE LEVEL OF	A CONTAMINANT II	T DEINKING	MATER
MG/L - MILLIGRAMS PER LIT		J PROCESS IN	LINDED TO REDUC	LINE ELVEL OF A	OON) AWIII VANS II	V DICINICIA	Waltin
UG/L - MICROGRAMS PER LI	TER (PPB)						
N/R - NOT REGULATED			*				
		`	······································				
PCI/L - PICO CURIES PER LIT	TER, A MEASU	RE OF RADIOA	CTIVITY IN WATER	<u> </u>			
MREM/YR MILLIREMS PER	 YEAR, A MEA	SURE OF RADIA	TION ABSORBED	BY THE BODY			
ND - NOT DETECTABLE AT S	SAMPLE TIME		\$				
NA - NOT APPLICABLE			:				
MRDLG - MAXIMUM RESIDUA	N DISINEECTI	ON LEVEL COA	<u></u>		1		3

2018 CCR Data for GCWW Wholesale Customers

0.70-0.89 No 2018 Additive which promotes strong teath. May come from erosion of natural deposits.

In No 2018 Runoff from Harilizer use, leaching from septic tanta, sewage, erosion of natural deposits.

In No ne Solf runoff nr No na Naturally present in the environment.
na No 2018 Eroalon of natural deposits; Discharge from metal ratinaries. Highest Compliance Range of Level Detections 1.24 2018 2018 2018 2018 2018 Yeer Violetion Regulated Contaminants (Contaminants subject to a Maximum Contaminant Level (MCL), Action Level (AL) or Trestment Technique (TT)*
| Miller Water | Highest Compilance Level Range of Datections Datected 0.67 0.66-0.68 0.88-0.88 100% < 0.3 NTU MCLO. TT2 < 0.3 NTU 95% of the time Maximum Allowed (MCL, AL, TT)* Ē Total Organic Carbon Bartum Nitrate Turbidity Bubstance Fluoride

				MINE Water				Boff	Botton Water	
Substance	TE .	WCLG.	Average Level Detected	Range of Detections	Violation	Year Sampled	Average Level Detected	Range of Detections	Violation	Year Sampled
Chloroform	qaa	70	3,60	The same of the sa	E E	2018	1.11	90	10	2018
9mmodichlommethane	ê	0	5,01	2	2	2018	2.97	na.	Ju .	2018
Olbramochloramethane	ę	99	Į,	EU .	2	2018	5.52	2	JU .	2018
Bromoform	qu	0	1:1	au.	Ē	2018	4.15	na na	=2	2018
Sulfate	Edd	138	.9	40-67	υg	2016	61	46 - 51	au.	2018
Shorate	qd	na Na	24	14 - PI	2	2013	E	lu u	-QIU	2013
Hexavalent Chromium	gg	#L	0.058	0.048 - 0.068	2	2013	0,205	0.200 -0.210	6 E	2013
4-Dioxene	QOO	ac.	0.326	nd - 0.575		2013	0,545	0.276 - 0,814	92	2013
Mohedanum	8	•	9	1.2 - 2.5	2	2013	7	3.5 - 4.8	92	2013
Strontium	g	•5	205	190 - 220	ē	2013	170	160 - 150	90	2013
Billion N	9	200	0.20	nd - 0.58	2	2013	0.66	0.60 - 0.72	2	2013

**Detected contaminants from the plant tap

The waite reported under **Published Compliance Level Datected** for Total Organic Carbon (TOC) is the lowest rate between percentage of TOC estually 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 value on the TOC removal requirements.

nesting to control production of the property Results of GCWW Voluntary Monitoring for Cryptosporidium:

Bodium; GCWW has tasted for sodium in treated water as it leaves the treatment plants and has found 20 mg (milliprams) per liter in the Miles water and 30 mg per liter in the Bolton water. There are approximately 4 cups in a liter. Turbidity: We are required to report on the turbidity as an indication of the effectiveness of our filtration system. Turbidity is a measure of the federal cost and stated that the federal month, and shall not exceed 1 NTU of the campies analyzed sech month, and shall not exceed 1 NTU and shall not exceed 1 NTU any shall not exceed 1 NTU in the As reported in the table above. GCWWs higher incorded turbidity result for 2018 was 0.28 NTU (Atlier Water) and the toward monthly percentage of samples meeting the turbidity limits was 100%.

GCWW has a current unconditioned (cense to operate our water system. GCWW was in compilance with all state primary drivking water rules during 2018.

The Miller Treatment Plent uses the Obio River as its source water. As with all surface waters, the Obio EPA has also classified the portion of the Great Minni Aquifer that supplies water to the well fleds for the Boiton Treatment Plant as highly susceptible to contamination. If does not have an overlying protective day layer, the ground water has low lowes of infants, and there are potential sources of contamination nearby.

ppb: parts per billion or micrograms per liter, ppp: part per million or miligrams per liter, na; not upplicable.
NTU: Naphabonautic Turkkilly Unit, used to measure clarky in drinking water, not not detectable at testing limits, mr. not regulated.

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. Makimum Contaminant Lavel or MCL: The highest level of a contaminant that is attowed in dinking wester, MCLs are set as close to the MCLCs as featible using the best contaminant in difficing water. The < symbolic A symbol which means less than. A result of <3 means that the lowest This is noted be debeted was 5 and the contaminant in that sample was not detected avaitable treatment technology;
Action Level or ALL: The concentration of a contaminant, which, if exceeded, briggers
Action Level or ALL: The concentration of a contaminant, which a value system shall lobbw.
Treatment or other requiements which a value system shall lobbw.
Treatment Technique or TT: A nequired process intended to reduce the level of a

Table of Detected Contaminants

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

TABLE OF DETECTED CONTAMINANTS

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Residual Disinfectants			47				
Total Chlorine (ppm)	MRDLG =	MRDL =	0.92	0.85 - 0.99	No	2018	Water additive used to control microbes.
Inorganic Contaminants		į.					
Nitrate (ppm)	10	10	0.31	0.31	No	2018	Runoff from fertilizers, erosion of natural deposits.
Fluoride (ppm)	4	4	0.91	0.86 - 0.95	Nọ	2018	Water additive required by the State of Ohio E.P.A.
Disinfection Byproducts							
Total Trihalomethanes (ppb)	0	80	35.7	28.1 – 35.7	No	2018	By-product of drinking water chlorination.
Haloacetic Acids (ppb)	na	60	<6.0	Nd	No	2018	By-product of drinking water chlorination.
Unregulated		,					
Chloroform(ppb)	Na	Na	2.6	1.8-2.6	No	2018	EPA regulations required us to
Bromoform(ppb)	Na	Na	10.7	8.8-10.7	No	2018	monitor these contaminants while EPA
Bromodichloromethane(ppb)	Na	Na	7.8	5.8-7.8	No	2018	considers setting limits on them.
Dibromochloromethane(ppb)	Na	Na	14.6	11.7-14.6	No	2018	The contaminants are by-products of drinking water chlorination.

Lead and Coppe	r							
Lead and Copper	MCLG	AL	90 th percentile	# of sites found above the AL	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Lead (ppb)	0	15	<5.0	1-30	Nd – 50.6	No	2017	Corrosion of household plumbing systems.
Copper (ppm)	1.3	1.3	<0.05	0-30	Nd -0.266	No	2017	Corrosion of household plumbing systems.