Water Quality Report 2016



Village of Grand Rapids



Customer Service and Administrative Offices:

419-832-5305 Information@GrandRapidsOhio.com

The Village of Grand Rapids encourages public interest and participation in our community's decisions affecting drinking water. We have a current, unconditioned license to operate our water system. Regular Village Council meetings are held at 7 pm at the Town Hall located at 24282 Front Street. Find out more about the Village Council Meeting dates and the Village of Grand Rapids on the internet at

Lead in Drinking Water

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. The City of Bowling Green 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 levels in your home's water, you may wish to have your water tested.

Although there is no detectable lead in our drinking water as it leaves the treatment plant, by the time it reaches your tap, lead levels may increase as a result of materials used in your home's plumbing. Infants and young children are typically more vulnerable to lead in drinking water than the general population. Additional information is available from the **Safe Drinking Water Hotline at 1-800-426-4791 or at <u>http://</u> water.epa.gov/drink/hotline/index.cfm**

Water Treatment Improvements

Two significant improvements have been designed and one constructed at the Bowling Green Water Treatment Plant. A second reservoir pumping station has been completed and has been placed in service which allows the City to get maximum production out of the plant during high demand periods. The other major project underway and ready for construction bids is refurbishing the rapid sand filters. The existing plant has 6 rapid sand filters that are scheduled to be completely rebuilt this coming year. Three of the sand filters were constructed in 1951 and the other three were added in 1968 plant expansion.



Source Water Assessment

The City of Bowling Green public water system uses surface water drawn from an intake on the Maumee River. For the purposes of source water assessments, in Ohio, all surface waters are considered to be susceptible to contamination. By their nature, surface waters are readily accessible and can be contaminated by chemicals and pathogens which may rapidly arrive at the public drinking water intake with little warning or no time to prepare. The City of Bowling Green's drinking water source protection area contains potential contaminant sources such as runoff from agriculture, industrial storm water, gas stations, home construction, feed lots, wastewater treatment discharges, airports, cemeteries, auto repair shops, landfills, above ground storage tanks, railroads, roadways, and oil and gas wells.

The City of Bowling Green's public water system treats the water to meet drinking water quality standards, but no single treatment technique can address all potential contaminants. The potential for quality impacts can be further decreased by implementing measures to protect the Maumee River.

More detailed information is provided in the City of Bowling Green's Drinking Water Source Assessment report, which can be obtained by calling **419-878-6986**.

The Village of Grand Rapids and the City of Bowling Green Water Treatment Plant has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included in this report is general health information, water quality test results, how to participate in decisions concerning your drinking water, and water system contacts. The Village of Grand Rapids will notify you immediately if there is any reason for concern about the water.



Source of Bowling Green's Water

The City of Bowling Green draws surface water from the Maumee River during periods when the river supply is of high water quality. The water is then stored in the City's 170 million gallon above-ground reservoir to be used at times when the river water quality is less desirable. The reservoir storage provides a means to supply consistently high quality water to the consumer. The water plant's operators work around the clock, 7 days a week to assure the quality of your drinking water meets or exceeds all Federal and State requirements. Your drinking water goes through a continuously monitored, 10-step multi-barrier treatment process, which takes several hours to complete.

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 the water poses a health risk.

The source of drinking water and bottled water includes rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive materials, and can pick up substances from the presence of animals or 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 water runoff and residential uses.

D). Organic chemicals contaminants, including synthetic and volatile organic chemicals, which are byproducts 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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. It's important to remember that the presence of certain contaminants does not necessarily indicate that the water poses a health risk.

Nitrates in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

The following table show	ws the re	sults of	our water	-quality a	nalysis. Ev Tho tablo	/ery reç	julated contaminant that we detected	Definitions
highest level allowed by usual source of such co ous other contaminants	regulati regulati ntamina we teste	on (MCL nts, and ed for, ar	, the ide), the ide a key to t nd did not	al goals fe the units o detect in	our water.	alth (N ment.	This table does not show the numer-	Action Level - The con- centration of a contami- nant which, if exceeded, triggers treatment or oth-
Bowl	ina	Gree	en's	2016	Wate	er C	Duality Data	er requirements which a water system must fol-
	Viola-	Sample		Detected	Range of			low.
Contaminant (Units)	tion Y/N	Year	MCL	Level	Detec- tions	MCLG	Likely Source of Contamination	System Evaluation is a
Microbiological Contan	ninants							one-time study conduct- ed by water systems to
Turbidity (NTU)	۶	2016	TT = 0.3	0.16	.05 - 0.16	NA		identify distribution sys- tem locations with great-
Turbidity (% samples meeting standards)	٩	2016	F	100%	100%	NA	Soil Runoff	er concentrations of tri- halomethanes (THM's) and haloacetic acids (HAA's).
Total Organic Carbon (TOC)	No	2016	Ħ	2.78	2.78-2.89	NA	Naturally Present in the Environment	Maximum Contaminant Level - The "Maximum
Inorganic Contaminant	S							Allowed" (IVICL) IS the highest level of a con-
Barium (ppm)	N	2016	2	0.013	AN	7	Discharges from metal refineries & of drilling wastes; Erosion of natural de-	taminant that is allowed in drinking water. MCL's are set as close to the
Fluoride (ppm)	۶ ۷	2016	4	1.23	0.79-1.23	4	Water additive which promotes stong teeth; Erosion of Natural Deposits	MCLG's as feasible us- ing the best available treatment technology
Nitrate (ppm) as Nitrogen	No	2016	10	6.91	0 - 6.91	10	Runoff from fertilizer use; sewage; ero- sion of natural deposits	Maximum Contaminant
Volatile Organic Contai	minants							Level Goal - The "Goal" (MCI G) is the
Bromodichlormethane (ppb)	Š	2016	NR	6.9	NA	0		level of a contaminant in drinking water below which there is no known
Bromoform(ppb)	Š	2016	NR	4.4	NA	0	EPA regulations require us to monitor for these contaminants while EPA con-	or expected risk to health. MCLG's allow for a margin of safety.
Chloroform (ppb)	No	2016	NR	3.7	NA	0	siders setting a limit on them.	Maximum Residual Dis-
Dibromo-chloromethane (ppb)	٩	2016	NR	9.7	NA	0		infectant Level Goal (MRDLG) - The level of drinking water disinfect-
Dichloroacetic Acid (ppm)	No	2016	NR	17.7	3.0 - 17.7	NA		ant below which there is no known or expected risk to health. MRDLG's
Trichloroacetic Acid (ppm)	Q	2016	R	8.9	2.4 - 8.9	AN		of the use of disinfect- ants to control microbial
Dibromoacetic Acid (ppm)	Q	2016	NR	4.5	1.0 - 4.5	NA		Maximum Residual Dis- infectant Level (MRDL)
Monobromoacetic Acid (ppm)	No	2016	NR	1.4	1.4	NA		 The level of drinking water disinfectant below which there is no known
Synthetic Organic Cont	taminant	s	-	_	-			or expected risk to health.
Atrazine (ppb) No	2016		0.8	2		Ru	noff from herbicide used on row crops	

Grand Rapids' 2016 Water Quality Data NTU - A unit of measure t												
Contaminant (Units)	minant (Units) Violation Sample MCL Detected Range of MCLG Likely Source of Contamination determine the concentra-											
Volatile Organic Contam	inants				·	-		that affect clarity.				
Total Trihalomethanes	No	2016	80	47.7	33.8 - 63.7	0	By-product of drinking	Parts per Million (ppm)				
Haloacetic Acids (HAA5) No 2016 60 16.7 15.8 - 22.4 NA Water chlorination Parts per Million (pp												
Residual Disinfectants centration of contaminant.												
Total Chlorine (ppm)	No	2016	MRDL 4.0	.85	.2–1.6	MRDLG 4.0	Water additive used to control mi- crobes	sponds to one second in				
Inorganic Contaminants approximately 115 days.												
Lead (mg/L)	Lead (mg/L) No 2016 AL=.015 <.005 NA NA Corrosion of household Parts per Billion (ppb) - Units of measure for con-											
Copper (mg/L)	No	2016	AL=1.3	.01	<.005055	1.3	plumbing systems	centration of contaminant.				
* Unregulated contaminar	its monitoring	g helps EPA to	determine v	where certain	contaminants or	ccur and wheth	her it needs to regulate those contaminants.	A part per billion corre-				
Data presented in this table is from the most recent monitoring done in compliance with regulations. Sponds to one second in approximately 31.7 years												
MCL = Maximum Contaminan MCLG = Maximum Contaminan MRDL = Maximum Residual Dis MRDLG = Maximum Residual Dis < = A symbol that means I	MCL= Maximum Contaminant Levelppb=parts per billion, or micrograms per liter"<" Symbol - A symbol which means less thanTreatment Technique (TT)MCLG= Maximum Contaminant Level GoalTT=Treatment TechniqueA result of <5 means that the lowest level that could be detected was 5 and that the contami- nant in that sample was not detectedA treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a con- taminant in drinking water.											
0.3 NTU in 95% of the daily samples and shall not exceed 1 NTU at any time. As reported above, Bowling Green's highest recorded turbidity result for 2016 was 0.16 and 100% of our samples met the turbidity limits. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, 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. At risk individuals 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 microbiological contaminants are available from the Safe Drinking Water Hotline 1-800-426-4791.												
Some people who drink water containing Trihalomethanes 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.												
Bowling Green's drinking water contains small amounts of naturally-occurring minerals such as calcium and magnesium. Fluoride is added to protect teeth as required by law.												
The value reported in the table under "Detected Level" 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 indicates that the water system is in compliance with TOC removal requirements. A value of less than one indicates a violation of TOC removal												
The City of Bowling Green encourages public interest and participation in our community's decisions affecting drinking water. Board of Public Utilities meetings are held regularly at 5:00 p.m. the second and fourth Mondays of each month at the City Administrative Services Building located at 304 North Church Street in the City Council Chambers. The public is welcome to attend these meetings to ask questions or express concerns as a lobby visitation if desired. Find out more about the City of Bowling Green on the internet at http://www.bgohio.org/												
This Consumer Confidence Rule from 1989 to March31. suring the integrity of the drir lic health protection under the longer a maximum contamin rences to conduct an assess	ce Report (C 2016, and be nking water d ie new rule, a iant level viol sment to dete	CR) reflects cl egin complian- listribution sys as it requires v lation for multi ermine if any s	nanges in dr ce with a ne tem and mo vater system ple total coli significant de	inking water w rule, the Re initoring for th is that are vu form detectio eficiencies ex	regulatory requir evised Total Coli ne presence of to Inerable to micro m. Instead, the r ist. If found, the	rements during iform, on April otal coliform b obial contamin new rule requi se must be co	g 2016. All water systems were required to con 1, 2016. The new rule maintains the purpose t acteria, which includes E. coli bacteria. The U.S lation to identify and fix problems. As a result, u res water systems that exceed a specified frequ rrected by the Public Water System (PWS).	nply with the Total Coliform o protect public health by en- S. EPA anticipates greater pub- inder the new rule there is no iency of total coliform occur-				