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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-

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.

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 its 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.

E). Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 runcome from gas stations.

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 http://water.epa.gov/drink/hotline/index.cfm

Water Treatment Improvements

Bowling Green is underway on several additional improvements to the plant. Construction of a new membrane pumping station has already begun and we are in the design process for upgrades to the rapid sand filters. In May of 2016, we are replacing all of the Reverse Osmosis membranes in the Membrane Treatment Plant. Additionally, the carbon media in all 12 Granular Activated Carbon pressure tanks will be replaced in 2016 in preparation for the Harmful Algae Bloom season.

Design work for an additional Microfiltration train will occur in 2016 along with several electrical upgrades to the plant.

C). Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff and residential

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.

A). Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

water include:

Contaminants that may be present in source

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.

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.

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.



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 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 means to supply consistently high quality water to the consumer. The water plant's operators work around the clock, 7 days a week to sors work around the clock, 7 days a week to sasure the quality of your drinking water

Source of Bowling Green's Water



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 City of Bowling water system contacts. The City of Bowling and water system contacts. The City of Bowling and creations for concern about the water.

2015 Water Quality Report



City of Bowling Green



Water Treatment Plant

Water Treatment Plant: 419-878-6986 Utilities Director: 419-354-6246 Customer Service: 419-354-6258

The City of Bowling Green has a current unconditional license to operate our Water System.

nute traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public **Definitions** health (MCLG), the amount detected, the usual source of such contaminants, and a key to the units of measurement. This table does not show the numerous other contaminants we tested for, and did not detect in our water. 2015 Water Quality Data Action Level - The concentration of a contami nant which, if exceeded, triggers treatment or Violation | Sample Detected | Range of other requirements which a water system must MCL MCLG Contaminant (Units) Likely Source of Contamination Y/N Year Level Detections Microbiological Contaminants **IDSE** - Initial Distribution System Evaluation is Turbidity (NTU) No 2015 TT = 0.30.16 .05 - 0.16 NA a one-time study conducted by water systems Soil Runoff Turbidity (% samples meeting to identify distribution system locations with No 2015 TT 100% 100% NA standards) greater concentrations of trihalomethanes 2.5-2.9 Naturally Present in the Environment (THM's) and haloacetic acids (HAA's). No 2015 TT 2.50 NA Total Organic Carbon (TOC) Inorganic Contaminants Maximum Contaminant Level - The Discharges from metal refineries & of drilling "Maximum Allowed" (MCL) is the highest level 2 Barium (ppm) No 2015 2 0.016 NA wastes; Erosion of natural deposits of a con-taminant that is allowed in drinking 2015 AL = 1.30.122 NA 1.3 Corrosion of household plumbing systems Copper (ppm) No water. MCL's are set as close to the MCLG's as feasible using the best available treatment Water additive which promotes stong teeth; Ero-Fluoride (ppm) No 2015 4 1.22 0.80-1.22 4 sion of Natural Deposits technology. AL = 15No 2015 < 4 NA 0 Corrosion of household plumbing systems Maximum Contaminant Level Goal - The Lead ** (ppb) No lead sample sites out of 61 sites sampled were above the AL of 15 ppb. 'Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known Runoff from fertilizer use; sewage; erosion of natu-Nitrate (ppm) as Nitrogen No 2015 4.73 0.20 - 4.73 10 or expected risk to health. MCLG's allow for a ral deposits margin of safety. Volatile Organic Contaminants Total Trihalomethanes TTHM 2015 27.8 - 73.8 0 No 80 54.2 By-product of drinking water chlorination Maximum Residual Disinfectant Level Goal (ppb) (MRDLG) - The level of drinking water disin-5.7 0 No 2015 NR NA Bromodichlor-methane (ppb) fectant below which there is no known or ex-EPA regulations require us to monitor for these 0 NA Chloroform (ppb) No 2015 NR 6.5 pected risk to health. MRDLG's do not reflect contaminants while EPA considers setting a limit 0 the benefits of the use of disinfect-ants to con-Dibromochloro-methane (ppb) No 2015 NR 3.1 NA on them. trol microbial contaminants. No 2015 60 25.6 11.8 - 35.9 NA Haloacetic Acids (HAA5) (ppb) No 2015 NR 21.4 5.9 - 21.4 NA By-product of drinking water chlorination Dichloroacetic Acid (ppm) Maximum Residual Disinfectant Level Trichloroacetic Acid (ppm) 2015 No NR 14.5 3.1 - 14.5 NA (MRDL) - The level of drinking water disinfect-No 2015 NR 3.9 1.0 - 3.9 NA ant below which there is no known or expected Dibromoacetic Acid (ppm) risk to health. MRDLG's do not reflect the NR NA No 2015 1.4 1.4 Monobromoacetic Acid (ppm) benefits of the use of disinfect-ants to control Residual Disinfectants microbial contaminants. **MRDL** Total Chlorine (ppm) 1.13 - 1.68 Water additive used to control microbes 2015 **MRDL** 1.35 No G 4.0 NTU - A unit of measure to determine the con-Corrective centration of particles in the water that affect **TT Violation Explanation** Length **Health Effects Language** Action clarity. Failed to monitor continuously the On 9/10/15 staff was per-9/10/15 Implemented a man- This was not an emergency. Plant tap turbidity is Parts per Million (ppm) - Units of measure for forming calibration on the ual 8-hour shift refiltrate turbidity of the microfiltrathru also measured at the entry point of the water disconcentration of contaminant. A part per miltion membrane in accordance with Microfiltration Membrane 10/06/15 cording on paper for tribution system in which all effluent turbidities met lion corresponds to one second in approxiall OEPA standards. If it had been an emergency, Pall Rack 1 & Rack rules 3745-81-73(C) and 3745-91-- Turbidity In-line Meters as mately 115 days. 08(G)(1) required by the OEPA. After 2 meter readings to you would have been notified immediately. Turthe calibration was peralert operators of bidity has no health effects. However, turbidity Parts per Billion (ppb) - Units of measure for formed, the operator failed to problems in the can interfere with disinfection and provide a mediconcentration of contaminant. A part per billior return the meter to active future. All fully um for microbial growth. Turbidity may indicate corresponds to one second in approximately mode, which caused the chemical certified the presence of disease-causing organisms. 31.7 years. meter to stay on hold posioperators have been These organisms include bacteria, viruses and tion and record false turbidity informed of their parasites that can cause symptoms such as nau-Treatment Technique (TT) - A treatment techreadings in the SCADA data responsibilities as sea, cramps, diarrhea, and associated headaches nique is a required process intended to reduce related to these records. the level of a contaminant in drinking water. turbidity meters. Engineering controls **Unregulated Contaminant Monitoring Rule** are being pursued (UCMR) - An EPA program to collect data for within our new contaminants that do not have health based SCADA system to standards set under the safe drinking water prevent this in the future. Key to Table '<" Symbol - A symbol which means less than. A result of <5 means that the lowest AL = Action Level ppm = parts per million, or milligrams per liter level that could be detected was 5 and that the ppb = parts per billion, or micrograms per liter MCL = Maximum Contaminant Level contaminant in that sample was not detected. MCLG = Maximum Contaminant Level Goal TT = Treatment Technique MRDL = Maximum Residual Disinfectant Level NTU = Nephelometric Turbidity Units NR = Not Regulated MRDLG = Maximum Residual Disinfectant Level Goal NA = Not available = A symbol that means less than Turbidity is a measure of the cloudiness of the water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is 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 2015 was 0.16 and 100% of our samples met the turbidity limits.

The following table shows the results of our water-quality analysis. Every regulated contaminant that we detected in the water, even in the most mi-

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 requirements.

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/departments/utilities-department/water-treatment-plant.