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TRUMBULL COUNTY

2017 DRINKING WATER

CONSUMER CONFIDENCE REPORT

BAZETTA / CHAMPION PUBLIC WATER SYSTEM

INTRODUCTION

Trumbull County has a current, unconditioned license to operate this Public Water System. Trumbull County has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. This report was required as part of the Safe Drinking Water Act Re-authorization of 1996 and is required to be delivered to the consumer by July 1, 2018. 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.

Trumbull County Bazetta/Champion Public Water System obtains its source water from the City of Warren, which draws from Mosquito Creek Reservoir. Mosquito Creek Reservoir is considered a surface water source and requires extensive treatment before it can be used as drinking water.

Water Source Assessment

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 time to prepare.

The City of Warren 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 water quality impacts can be further decreased by implementing measures to protect Mosquito Creek Reservoir and its watershed. More detailed information is provided in the City of Warren's Drinking Water Source Assessment Report, which can be obtained by calling the chemist at 330-841-2578.

WHAT ARE SOURCES OF CONTAMINATION TO DRINKING WATER

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

- Viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock, and wildlife.
- Salts and metals can be natural or may result from storm runoff and wastewater discharges, and farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water run-off, and residential uses.
- Organic chemicals, which originate from industrial processes, petroleum production, gas stations, storm runoff, and septic systems.
- Radioactive substances, 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. Drinking water, including bottled water, may reasonably 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.

Safe Drinking Water Hotline 1-800-426-4791

BAZETTA / CHAMPION WATER FACTS

In its effort to supply the safest possible product, the City of Warren Public Water System uses chloramines for disinfection of viruses and bacteria. Fluoride is also added to enhance dental protection. The levels of these two additives are monitored daily to ensure proper dosages are being added.

The Bazetta/Champion area receives treated water from the City of Warren through two master meters. One master meter is located on Elm Road, and the other is on Route 45.

On average, the County purchases approximately 14.68 million gallons of water per month from the city for the Bazetta/Champion area. Once through the meter pit, it's distributed through 30 miles of waterline varying in size from 6 through 24 inches in diameter.

The combined service area has 3091 service connections and services an estimated 7728 people. A booster station and 200,000 gallon elevated storage tank are located in the Champion half of the system. A new 500,000 gallon tank was constructed and put into operation in November 2009.

The County strives to provide safe and aesthetically pleasing drinking water to its residents as well as many businesses and visitors.

SPECIFIC HEALTH CONCERNS

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. These people should seek advice about drinking water from their health care providers. EPA / CDC guidelines on appropriate means to **lessen the risk of an infection** by *cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791)

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 Trumbull County Bazetta/Champion Public Water System is responsible for providing high quality drinking water, but cannot control the variety of materials used in household 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 in your water, you may wish to have your water tested. A list of laboratories certified in Ohio to test for lead or perform other analyses on public drinking water may be found at 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 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Revised Total Coliform Rule (RTCR) Information

The Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements during 2017. All water systems were required to comply with the Total Coliform Rule from 1989 to March 31, 2016, and begin compliance with a new rule, the Revised Total Coliform Rule, on April 1, 2016. The new rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of total coliform bacteria, which includes E. coli bacteria. The U.S. EPA anticipates greater public health protection under the new rule, as it requires water systems that are vulnerable to microbial contamination to identify and fix problems. As a result, under the new rule there is no longer a maximum contaminant level violation for multiple total coliform detections. Instead, the new rule requires water systems that exceed a specified frequency of total coliform occurrences to conduct an assessment to determine if any significant deficiencies exist. If found, these must be corrected by the PWS.

ABOUT YOUR DRINKING WATER

The EPA requires regular sampling to ensure drinking water safety. The City of Warren (CW) and Trumbull County Sanitary Engineers (TCSE) conducted sampling for bacteria, inorganic, radiological, synthetic organic, and volatile organic contaminants during 2017. Samples were collected for a total of 56 different contaminants, most of which were not detected in the City of Warren's water supply. The Ohio EPA requires the City to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of their data, though accurate, are more than one year old.

CITY OF WARREN DETECTED CONTAMINANTS FOR 2017

| CONTAMINANT | UNIT | MCLG | MCL | DETECTED | TESTED | MAJOR SOURCE | VIOLATION |
|--|------|------|-----|---------------|--------------|---|-----------|
| Fluoride | ppm | 4 | 4 | 0.97 | 2017 CW | Erosion of natural deposits; Water additive which promotes strong teeth; discharge from fertilizer and aluminum factories | NO |
| Nitrate | ppm | 10 | 10 | .47 | 2017 CW | Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits | NO |
| HAA-Haloacetic Acid ³ | ppb | NA | 60 | 39.18 Avg. | 2017 TCSE | By-product of drinking water chlorination Range 9.68-25.6 | NO |
| Trihalo-methanes TTHMs ³ | ppb | NA | 80 | 71.9 Avg. | 2017 TCSE | By-product of drinking water chlorination Range 35.7-73.8 | NO |
| Barium | ppm | 2 | 2 | 0.017 | 2017 CW | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits | NO |
| Turbidity ¹ | ntu | NA | TT | 0.15 | 2017 CW | Soil run-off | NO |

| | | | | | | | |
|-------------------------------|-----|------|-------------|--------------|--------------|--|----|
| Atrazine | ppb | 3 | 3 | .16 | 2016 CW | Runoff from herbicide used on row crops | NO |
| Simazine | ppm | 4 | 4 | .14 | 2015 CW | Runoff from herbicide used on row crops | NO |
| TOC ² | ppm | NA | TT | .82 | 2017 CW | Naturally present in the environment | NO |
| Lead | ppb | 0 | AL= 15 | BDL | 2017 TCSE | Corrosion of household plumbing system Range ND – 9.01 | NO |
| Copper | ppb | 1300 | AL= 1300 | 18.4 | 2017 TCSE | Corrosion of household plumbing system and leaching from wood preservatives | NO |
| PH | | | | 8.8 Avg. | 2016 CW | Measure of the acidity or alkalinity of a solution | |
| Hardness | ppm | | | 8.5 Avg. | 2016 CW | Hardness is caused by compounds of calcium, magnesium, and a variety of other metals. For grains/gal. divide by 17.1 | |
| Total Chlorine Chloramines | ppm | 4 | 4 | 1.58 Avg. | 2017 TCSE | Water additive used to control microbes Range-1.12-1.98 | NO |

UNREGULATED CONTAMINANTS

SUBSTANCES FOR WHICH EPA REQUIRES MONITORING TO DETERMINE WHERE CERTAIN SUBSTANCES OCCUR AND WHETHER IT NEEDS TO REGULATE THOSE SUBSTANCES.

| CONTAMINANT | UNIT | MCLG | MCL | DETECTED AVE | RANGE | TESTED | MAJOR SOURCE | VIOLATION |
|-------------------|------|------|-----|--------------|----------|--------------|--------------|-----------|
| Chlorate | ppb | N/A | N/A | 352 | 142-352 | 2014 2015 | | N/A |
| Molybdenum | ppb | N/A | N/A | 1.4 | nd-1.4 | 2014 2015 | | N/A |
| Strontium | ppb | N/A | N/A | 66 | 54-66 | 2014 2015 | | N/A |
| Chromium-6 | ppb | N/A | N/A | | nd-0.037 | 2014 2015 | | N/A |
| Chromium total | ppb | N/A | N/A | | nd-0.24 | 2014 2015 | | N/A |
| Vanadium | ppb | N/A | N/A | .28 | nd-0.28 | 2014 2015 | | N/A |

¹ 100% of the samples tested were below the treatment technique level of 0.3 NTU. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of the filtration system.

² the value reported under “Level Four” for Total Organic Carbon (TOC) is the lowest ratio between percentages 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.

² The County is not in violation for TOC because an alternate method (SUVA Value) was used to meet TOC requirement. All SUVA values are within the required range.

³ 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.

³ Some people who drink water containing Halo Acetic Acid in excess of MCL over many years may experience problems with their liver, kidneys, or central nervous system and may have an increased risk of getting cancer.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home’s plumbing. If you are concerned about elevated lead levels in your home’s water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. 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 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Our 90th percentile value for lead and copper does not exceed the action level, therefore, there are no actions being implemented at this time other than sharing this consumer notice.

Cryptosporidium Information

The City of Warren Public Water System monitored for Cryptosporidium in the source water during 2016 to comply with the Long Term 2 Enhanced Surface Water Treatment Rule (LT2). Cryptosporidium was detected in 1 sample of 3 collected from the raw water. Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100% removal. Monitoring of source water indicates the presence of these organisms. Current test methods do not enable us to determine if the organisms are dead or if they are capable of causing disease. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease. However, immuno-compromised people are at greater risk of developing life threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water.

Health Effects Language for Chlorine Contact Time Violation

The United States Environmental Protection Agency (USEPA) sets drinking water standards and have determined that the presence of microbiological contaminants is a health concern at certain levels of exposure. If water is inadequately treated, microbiological contaminants in that water may cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water. USEPA has set enforceable requirements for treating drinking water to reduce the risk of these adverse health effects. Treatment such as filtering and disinfecting the water removes or destroys microbiological contaminants. Drinking water, which is treated to meet USEPA requirements, is associated with little to none of this risk and should be considered safe.

KEY TO TABLES

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.

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

ppb : parts per billion, or 1 part in a billion parts.

ppm : parts per million, or 1 part in a million parts.

ug/l : micrograms per liter: or parts per billion, or 1 part in a billion parts.

BDL: Below detectable limits

TT: Treatment technique: A required process intended to reduce the level of a contaminant in drinking water. “<” This is a mathematical symbol that means “less than” “>” is a symbol that means “greater than”.

nd = not detected at testing limits

TTHMs: Trihalomethanes which are created by the disinfection process of water treatment. 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. **TT:** Treatment technique

HAA5 : Haloacetic Acids (5): Contaminant group whose combined MCL is 60 ug/l and is calculated as the sum of the concentrations of the following five acids. Dibromo-acetic, Dichloro-acetic, Monobromo-acetic, Monochloro-acetic, and Trichloro-acetic based on a (RAA) Running Annual Average.

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

VIOLATIONS

On Oct. 5, 2017, the Trumbull County Bazetta/Champion Public Water System (PWS) was issued a Notice of Violation from the Ohio EPA as a result of the 3-year Sanitary Survey.

1. Management – Backflow and Cross Connection Control
 - a. Conduct initial on-site surveys of existing customers and determine if containment backflow devices are required
 - b. Have a methodology in place to identify changes in water use practices at a consumer’s property
 - c. Public education material regarding Backflow and Cross Connection Control

The PWS is still in progress of correcting the violations that were issued.

PUBLIC PARTICIPATION

The public is encouraged to voice concerns, and learn of decisions regarding their drinking water during weekly meetings of The Trumbull County Board of Commissioners. Meetings are held each Wednesday at 10:30 A.M. in the Commissioner’s Hearing Room, on the fifth floor of the County Administration Building at 160 High St. NW, Warren, Ohio, 44481. Occasional changes in meeting location, date or time do occur; please call (330) 675-2451 to confirm. Specific questions may also be directed to Gary Newbrough, Deputy Sanitary Engineer, at (330) 675-7753.

OHIO METER TAMPERING LAW

In accordance with Sections 4933.18, 19, & 99 of the Ohio Revised Code, Trumbull County is required to notify customers annually of the Ohio Meter Tampering Law.

- 1.) Tampering is defined as interfering with, damaging or bypassing a meter or service equipment to reduce the amount of water consumption registered on the meter.
- 2.) No person shall reconnect a water meter, conduit, or attachment that has been disconnected by a utility without the consent of the utility.

Violators may be sentenced to a maximum of five years in jail, and/or fined up to \$2500. In addition, violators must pay for the value of the water used and the cost of repairs or replacement of equipment.

**SHOULD YOU HAVE QUESTIONS OR CONCERNS REGARDING THIS REPORT,
DISTRIBUTION, SERVICE, PRESSURE, LEAD AND COPPER SAMPLING RESULTS
OR DISCOLORED WATER, *CONTACT* Gary Newbrough, Deputy Sanitary
Engineer @ 330-675-7753.**