

A high-speed photograph of water splashing, with a central stream of water falling and creating a large, dynamic splash at the bottom. The water is clear and blue, with many droplets and ripples visible. The background is a light, bright blue.

ANNUAL WATER QUALITY REPORT

REPORTING YEAR 2020

Presented By
City of Jackson
PWS ID#: OH4000111

Our Mission Continues

We are pleased to present our water quality report covering all testing performed between January 1 and December 31, 2020. Over the years, we have dedicated ourselves to producing drinking water that meets all state and federal standards. We continually strive to adopt new methods for delivering the best-quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the goals of source water protection, water conservation, and community education while continuing to serve the needs of all our water users. The City of Jackson has prepared the following report to provide information to you, the consumer, on the quality of our drinking water.

Please remember that we are always available should you ever have any questions or concerns about your water.



Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) 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 or <http://water.epa.gov/drink/hotline>.



Where Does My Water Come From?

THE CITY OF JACKSON receives its water from Hammertown lake and utilizes Jisco Lake as a backup water source.

Count on Us

Delivering high-quality drinking water to our customers involves far more than just pushing water through pipes. Water treatment is a complex, time-consuming process. Because tap water is highly regulated by state and federal laws, water treatment plant and system operators must be licensed and are required to commit to long-term, on-the-job training before becoming fully qualified. Our licensed water professionals have a basic understanding of a wide range of subjects, including mathematics, biology, chemistry, and physics. Some of the tasks they complete on a regular basis include:

- Operating and maintaining equipment to purify and clarify water;
- Monitoring and inspecting machinery, meters, gauges, and operating conditions;
- Conducting tests and inspections on water and evaluating the results;
- Maintaining optimal water chemistry;
- Applying data to formulas that determine treatment requirements, flow levels, and concentration levels;
- Documenting and reporting test results and system operations to regulatory agencies; and
- Serving our community through customer support, education, and outreach.

So, the next time you turn on your faucet, think of the skilled professionals who stand behind each drop.

QUESTIONS?

The City of Jackson Water Treatment Plant is lead by Ron Aldrich and is part of the Administration overseen by Mayor Randy Evans both Mayor Evans and Mr. Aldrich (740-286-3010) (raldrich@jacksonohio.us) encourage and welcome comments and input in regard to our water system.

Substances That Could Be in Water

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, in some cases, radioactive material, and substances resulting from the presence of animals or from human activity. Substances that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife;

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses;

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and may also come from gas stations, urban stormwater runoff, and septic systems;

Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

The EPA requires regular sampling to ensure drinking water safety. The City of Jackson conducted sampling for bacteria, inorganics, volatile organics, and residual disinfectants during 2020.

For more information about contaminants and potential health effects, call the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Source Water Assessment

A Source Water Assessment has been completed for our system. The purpose of the assessment is to determine the susceptibility of each drinking water source to potential contaminant sources.

The City of Jackson public water system uses surface water drawn from two reservoirs, which are fed by tributaries to Little Salt Creek. 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 Jackson's drinking water source protection area contains potential contaminant sources such as home sewage disposal system discharges, runoff from residential, agricultural and home sewage disposal system discharges, runoff

from residential, agricultural and urban areas, and oil and gas production.

We remain vigilant in delivering the best-quality drinking water

The City of Jackson'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 water quality impacts can be further decreased by implementing measures to protect the City's two reservoirs. More detailed information is provided in the City of Jackson's Drinking Water Source Assessment report, which can be obtained by calling Ron Aldrich, Head of Department for Water and Wastewater at (740) 286-3010.

More information about the source water assessment or what consumers can do to help protect the aquifer is available by calling (740) 286-3010 or the Ohio EPA at (740) 385-8501.

The Source Water Assessment was completed in 2003

Public Meetings

Regular meetings of the City of Jackson Council are held on the second and fourth Mondays of each month at which time a public participation session is scheduled and welcomed.





BY THE NUMBERS

Average usage per person per day in the US

82
GALLONS

2.2
MILLION The number of miles of drinking water distribution lines in the U.S.

The amount of money spent annually on maintaining the public water infrastructure in the U.S. (2017)

441
BILLION

310
MILLION The number of Americans who receive water from a public water system.

Percent of the worlds water that is drinkable

3%

145
THOUSAND The number of active public water systems in the U.S.

Number of water and wastewater treatment plant operators- estimate as of 2016

120
THOUSAND

93 The number of federally regulated contaminants tested for in drinking water.

Table Talk

Get the most out of the Testing Results data table with this simple suggestion. In less than a minute, you will know all there is to know about your water:

For each substance listed, compare the value in the Amount Detected column against the value in the MCL (or AL, SMCL) column. If the Amount Detected value is smaller, your water meets the health and safety standards set for the substance.

Other Table Information Worth Noting

Verify that there were no violations of the state and/or federal standards in the Violation column. If there was a violation, you will see a detailed description of the event in this report.

If there is an ND or a less-than symbol (<), that means that the substance was not detected (i.e., below the detectable limits of the testing equipment).

The Range column displays the lowest and highest sample readings. If there is an NA showing, that means only a single sample was taken to test for the substance (assuming there is a reported value in the Amount Detected column).

If there is sufficient evidence to indicate from where the substance originates, it will be listed under Typical Source.

Lead in Home Plumbing

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. We are responsible for providing high-quality drinking water, but we 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 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.ohio.gov/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 www.epa.gov/safewater/lead.



Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule. Also, the water we deliver must meet specific health standards. Here, we show only those substances that were detected in our water. (A complete list of all our analytical results is available upon request.) Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels. We are pleased to report that your drinking water meets or exceeds all federal and state requirements.

The state recommends monitoring for certain substances less often than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

We participated in the 4th stage of the U.S. EPA's Unregulated Contaminant Monitoring Rule (UCMR4) program by performing additional tests on our drinking water. UCMR4 sampling benefits the environment and public health by providing the EPA with data on the occurrence of contaminants suspected to be in drinking water, in order to determine if the EPA needs to introduce new regulatory standards to improve drinking water quality. Unregulated contaminant monitoring data are available to the public, so please feel free to contact us if you are interested in obtaining that information. If you would like more information on the U.S. EPA's Unregulated Contaminant Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

Note that we have a current, unconditioned license to operate our water system.

| REGULATED SUBSTANCES | | | | | | | |
|-------------------------------------|--------------|------------|--------------|-----------------|----------------|-----------|--|
| SUBSTANCE (UNIT OF MEASURE) | YEAR SAMPLED | MCL [MRDL] | MCLG [MRDLG] | AMOUNT DETECTED | RANGE LOW-HIGH | VIOLATION | TYPICAL SOURCE |
| Barium (ppm) | 2020 | 2 | 2 | 0.012 | NA | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Chlorine (ppm) | 2020 | [4] | [4] | 1.502 | 1.23-1.73 | No | Water additive used to control microbes |
| Fluoride (ppm) | 2020 | 4 | 4 | 1.00 | 1.03-1.16 | No | Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Haloacetic Acids (ppb) | 2020 | 60 | NA | 38.83 | <23.6-48.7 | No | By-product of drinking water disinfection |
| Nitrate (ppm) | 2020 | 10 | 10 | 0.22 | 0.1-0.22 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| TTHMs [Total Trihalomethanes] (ppb) | 2020 | 80 | NA | 59.6 | 39.7-78.3 | No | By-product of drinking water disinfection |
| Turbidity (NTU) | 2020 | TT | NA | 0.11 | 0.01- 0.11 | No | Soil Runoff |

| SUBSTANCE (UNIT OF MEASURE) | YEAR SAMPLED | AL | MCLG | 90% of test levels were less than | RANGE LOW-HIGH | Individual Results over AL | VIOLATION | TYPICAL SOURCE |
|-----------------------------|--------------|-----|------|-----------------------------------|----------------|----------------------------|-----------|---|
| Copper (ppm) | 2018 | 1.3 | 1.3 | 0.01 | <0.010–0.089 | 0/20 | No | Corrosion of household plumbing systems; Erosion of natural deposits |
| Lead (ppb) | 2018 | 15 | 0 | < 2.0 | <2.0–110 | 0/20 | No | Lead services lines; Corrosion of household plumbing systems including fittings and fixtures; Erosion of natural deposits |

During the Lead Monitoring one out of 20 samples was found to have lead in excess of the Action level of 15 ppb. Copper Monitoring was zero out of 20 samples were found to have copper levels above the action level of 1.3 ppm. Repeat samples were less than detectable.

Definitions

90th % tile: The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

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

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

MCLG (Maximum Contaminant Level Goal): 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.

MRDL (Maximum Residual Disinfectant Level): 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.

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

NA: Not applicable

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

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

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.

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

TT- Treatment Technique A required process intended to reduce the level of a contaminant in drinking water. Nephelometric Turbidity Unit (NTU) - Used to measure the cloudiness in drinking water

IDSE - Initial Distribution System Evaluation

Turbidity is a measure of the cloudiness of 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 5 NTU at any time. As reported above the City's of Jackson's highest recorded turbidity result for 2020 was 0.11 NTU and the lowest monthly percentage of samples meeting the turbidity limits was 100%.

Under the Stage 2 Disinfectants/Disinfection Byproducts Rule (D/DBPR), our public water system was required by USEPA to conduct an evaluation of our distribution system. This is known as an Initial Distribution System Evaluation (IDSE, and is intended to identify locations in our distribution system with elevated disinfection byproduct concentrations. The locations selected for the IDSE may be used for compliance monitoring under Stage 2 DBPR, beginning in 2013. Disinfection byproducts are the result of providing continuous disinfection of your drinking water and form when disinfectants combine with organic matter naturally occurring in the source water. Disinfection byproducts are grouped into two categories, Total Trihalomethanes (TTHM) and Haloacetic Acid (HAA5). USEPA sets standards for controlling the levels of disinfectants and disinfectant byproducts in drinking water, including both THMs and HAAs.

The following parameters are required to be tested routinely by EPA Regulation. No detectable amounts were found in the 2018 testing program.

Total Coliform Bacteria, Arsenic, Alachor, Simazine, Benzene, Carbon Tetrachloride, o-Dichlorobenzene, p-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Styrene, Tetrachloroethylene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Total Trihalomethanes, Total Organic Carbon, Halo acetic Acids, Xylenes, 2,4-dinitrotoluene, 2,6-dinitrotoluene, DCPA di-acid degradate, EPTC Molinate, Nitrobenzene, Perchlorate, Terbacil, Antimony, Barium, Beryllium, Cadmium, Chromium, Cyanide, Mercury, Nickel, Selenium and Thallium.

DRINKING WATER NOTICE

Microcystins monitoring requirements not met for City of Jackson Public Water System

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the weeks of July 26 through August 8, 2020 we did not monitor for total microcystins and therefore cannot be sure of the quality of our drinking water during that time.

What Should I Do?

This notice is to inform you that City of Jackson Public Water System did not monitor, and report results for the presence of microcystins in the public drinking water system during the week of July 26 through August 8, 2020 monitoring period, as required by the Ohio Environmental Protection Agency. You do not need to take any action in response to this notice.

What is being done?

Upon being notified of this violation, the water supply was required to have the drinking water analyzed for total microcystins according to their current monitoring schedule. The water supplier will take steps to ensure that adequate monitoring will be performed in the future.

A sample was collected on 8/12/2020

Sample results and additional information may be obtained by contacting City of Jackson Public Water System at:

Ron Aldrich 740-286-3010 145 Broadway St Jackson Ohio 45640

All samples were collected and analyzed but were collected out of sequence and therefore did not meet the timeline requirements .

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

PWSID: OH4000111 Facility ID: 4055282

Date Distributed: 6/1/2021

Tier 3: Monitoring Violation Notice .