



Jackson County Water Utility, Inc.
P.O. Box 56
Brownstown, IN 47220-0056

Jackson County Water Utility, Inc.

Annual Drinking Water Quality Report 2018

Dear Customers:

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source is ground water supply wells. Our wells are along the East Fork of the White River and pump from a sand and gravel aquifer. Jackson County Water Utility, Inc. purchases drinking water from Crothersville Water Utility, and Indiana American to serve a portion of their service area. Crothersville Water Utility draws water from a confined aquifer. Indiana American supplies ground water from wells located along the East fork of the White River.

We are pleased to report that in 2018, as in past years, your drinking water meets or exceeds all EPA and Indiana drinking water health requirements. We have learned through our monitoring and testing that some constituents have been detected. We constantly monitor for various constituents in the water supply to meet all regulatory requirements.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administrations (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health. All 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. 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.

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact **Larry McIntosh, Manager at 812-358-3654**. We want our valued customers to be informed about their water utility. Please call to arrange an appointment Monday through Friday if you would like to learn more about Jackson County Water Utility, Inc. Jackson County Water Utility, Inc. routinely monitors for constituents in your drinking water according to Federal and State laws. Tables provided show the results of our monitoring for the period of January 1st to December 31st, 2018. In cases where the most recent monitoring date was prior to January 1st 2018, the actual test year is noted. **Monitoring data for the Red-dington Service Area is provided in Table 2. Monitoring Data for the Crothersville Service Area is provided in Table 3.** Only contaminants that were detected are shown on the tables. None of the detected contaminants are in violation. All information regarding testing results for Indiana-American Water Company, Inc., and Crothersville Water Utility has been provided by the respective utility.

Why are there contaminants in my drinking water?

The sources of drinking water (both tap 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 and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbial contaminants, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas productions, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff, and residential uses.
- Organic chemicals, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive materials, 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. We are required to treat our water according to EPA's regulations. Moreover, Food & Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

TABLE 1: JACKSON COUNTY WATER QUALITY DATA FOR 2018 (PSWID IN5236003)

Constituent	Compliance?	Highest Level Detected	Range Low-High	MCLG	MCL	Likely Source of Contamination
Sodium (ppm)	Y	69.2	N/A	N/A	Unregulated	Water treatment for softening water
Copper (ppm) ^{(1) (2)} (2017)	Y	0.248	N/A	1.3	AL=1.3	Corrosion of household plumbing
Lead (ppb) ^{(1) (2)} (2017)	Y	2.1	N/A	0	AL=15	Corrosion of household plumbing
Fluoride (ppm) (2017)	Y	0.7	N/A	4	4	Natural deposits & treatment additive
Nitrate (ppm)	Y	0.973	N/A	0	10	Fertilizer; septic tank leachate
Free Chlorine (ppm)	Y	1.57	0.52-1.57	MRDLG=4	MRDL=4	Disinfection treatment additive
TTHM [Total trihalomethanes] (ppb)	Y	23	11-34.7	0	80	By-product of chlorination treatment
Haloacetic Acids [HAA5] (ppb)	Y	9	0-27	0	60	By-product of chlorination treatment
Total Coliform Bacteria ⁽³⁾	Y	0	N/A	0	1/Mo.	Naturally present in the environment
Barium (ppm) (2017)	Y	0.0246	N/A	2	2	Erosion of Natural Deposits

(1) Levels detected represent the 90th percentile value as calculated from total samples in test year.

(2) No test results were above the Action Level.

(3) Revised Total Coliform Rule, Minor violation occurred in October 2018. We did not complete all testing our drinking water for Total Coliform bacteria as required in October 2018 and therefore cannot be sure of the quality of our water at that time. There is nothing you need to do at this time. You do not need to boil your water or take other corrective actions. You may continue to drink the water. This is not an immediate risk. If it had been, you would have been notified immediately. JCWU will make every effort to perform all required Total Coliform testing in the future.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people, such as people with cancer undergoing chemotherapy, people who have undergone organ transplant, people with HIV/AIDS or other kind of 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 has set guidelines with appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants which are available from the Safe Drinking Water Hotline at (800) 426-4791.

Public Notice: We did not complete all testing our drinking water for Total Coliform bacteria as required in October 2018 and therefore cannot be sure of the quality of our water at that time. There is nothing you need to do at this time. You do not need to boil your water or take other corrective actions. You may continue to drink the water. This is not an immediate risk. If it had been, you would have been notified immediately. JCWU will make every effort to perform all required Total Coliform testing in the future.

Public Involvement Opportunities

If you have any questions about the contents of this report, please contact Mr. Larry McIntosh at 812-358-3654. Or you can join us at our Water Board Meetings which are regularly held on the 1st Thursday of each month at 7:30 PM, at the Jackson County Water Utility Office, 1119 West Spring St., Brownstown, Indiana. We encourage you to participate and to give us your feedback.

Watershed Protection Efforts

Jackson County Water Utility has developed a Wellhead Protection Plan to help protect the groundwater supply. The Wellhead Protection Plan is available for review at the Water Utility Office. The Indiana Department of Environmental Management (IDEM) conducted a Source Water Assessment in 2008. Please contact Larry McIntosh at 812-358-3654 if you have any questions regarding the Wellhead Protection Plan or Source Water Assessment.

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 Jackson County Water Utility 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 in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

The **Revised Total Coliform Rule (RTCR)** seeks to prevent water-borne diseases caused by E. coli. E. coli are bacterial whose presence indicates the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly and people with severely compromised immune systems.

TTHM's and HAA5's: Some people who drink water containing Haloacetic Acids in excess of the MCL over many years may have an increase risk of getting cancer. 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 system, and may have an increased risk of getting cancer.

Definitions

Action Level (AL)- the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow

Parts per million (ppm) - Milligrams per liter (mg/L)

Parts per billion (ppb) - Micrograms per liter (ug/L)

Maximum Contaminant Level (MCL): 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.

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 Residual Disinfection Level (MRDL): The highest level of disinfection allowed in drinking water.

Maximum Residual Disinfection Level Goal (MRDLG): The level of drinking water disinfection below which there is no known or expected health risk.

Treatment Technique (TT): A treatment technique is a required process intended to reduce the level of a contaminate in drinking water.

TABLE 2: REDDINGTON SERVICE AREA—JACKSON COUNTY WATER QUALITY DATA FOR 2018

Constituent	Compliance?	Highest Level Detected	Range Low-High	MCLG	MCL	Likely Source of Contamination
DATA FOR REDDINGTON (PSWID IN5236008)						
Copper (ppm) ^{(1) (2)}	Y	0.173	N/A	1.3	AL=1.3	Corrosion of household plumbing
Lead (ppb) ^{(1) (2)}	Y	4.9	N/A	0	AL=15	Corrosion of household plumbing
TTHM [Total trihalomethanes] (ppb)	Y	30.5	24.8-36.1	0	80	By-product of chlorination treatment
Haloacetic Acids [HAA5] (ppb)	Y	23.1	22.8-23.3	0	60	By-product of chlorination treatment
Free Chlorine (ppm)	Y	1.2	0.63-1.2	4	4	Water additive to control microbes
Total Coliform Bacteria ⁽³⁾	Y	1 Positive	N/A	0	1/Mo.	Naturally present in the environment
DATA FOR INDIANA AMERICAN WATER COMPANY (PSWID IN5236005)						
Sulfate (ppm) (2017)	Y	22	N/A	N/A	N/A	Erosion of natural deposits
Sodium (ppm) (2017)	Y	12.5	N/A	N/A	N/A	Naturally occurring
TTHM [Total trihalomethanes] (ppb)	Y	26.7	12.4-27.6	0	80	By-product of chlorination treatment
Haloacetic Acids [HAA5] (ppb)	Y	15.1	8.9-15.1	0	60	By-product of chlorination treatment
Fluoride (ppm) (2017)	Y	0.74	N/A	4	4	Water treatment additive
Nitrate (ppm)	Y	1.02	N/A	10	10	Fertilizer; septic tank leachate
Copper (ppm) (1) (2) (2017)	Y	0.146	N/A	1.3	AL=1.3	Corrosion of household plumbing
Lead (ppb) (1) (2) (2017)	Y	3	N/A	0	AL=15	Corrosion of household plumbing
Uranium (ppb) (2017)	Y	0.882	N/A	0	30	Erosion of natural deposits

TABLE 3: CROTHERSVILLE SERVICE AREA—JACKSON COUNTY WATER QUALITY DATA FOR 2018

Constituent	Compliance?	Highest Level Detected	Range Low-High	MCLG	MCL	Likely Source of Contamination
DATA FOR CROTHERSVILLE WATER UTILITY (PSWID IN5236001)						
TTHM [Total trihalomethanes] (ppb)	Y	9.8	9.7-9.8	0	80	See Above
Haloacetic Acids [HAA5] (ppb)	Y	4.0	3.4-4.0	0	60	By-product of chlorination treatment
Free Chlorine (ppm)	Y	1.3	0.5-1.3	4	4	See above
Barium (ppm) (2017)	Y	0.176	N/A	2	2	See Above
Nitrate (ppm)	Y	0.739	N/A	10	10	See Above
Fluoride (ppm)	Y	0.795	N/A	4	4	See Above
Copper (ppm) ^{(1) (2)}	Y	0.161	N/A	1.3	AL=1.3	See Above
Lead (ppb) ^{(1) (2)}	Y	4.8	N/A	0	AL=15	See Above
Radioactive Contaminants						
Gross alpha excluding radon and uranium (pCi/L)	Y	3.8	N/A	6	6	Discharge from fire retardants; ceramics; electronics; solder

Notes:

- (1) Levels detected represent the 90th percentile value as calculated from total samples in test year.
- (2) No test results were above the Action Level.
- (3) Revised Total Coliform Rule, Minor violation occurred in October 2018. We did not complete all testing our drinking water for Total Coliform bacteria as required in October 2018 and therefore cannot be sure of the quality of our water at that time. There is nothing you need to do at this time. You do not need to boil your water or take other corrective actions. You may continue to drink the water. This is not an immediate risk. If it had been, you would have been notified immediately. JCWU will make every effort to perform all required Total Coliform testing in the future.

SERVICE AREA MAP

