## Brazil City Water Works

2020 Consumer Confidence Report for Year 2019

PWSID 5211001



**Opportunities for public participation:** Common Council meetings are held the second Wednesday of each month at 7pm. Public Board of Works & Safety meeting is held the second Wednesday of each month at 10am., and the fourth Wednesday of each month at 10am. All meetings are held in the council chambers of City Hall.

<u>Is your water safe?</u>: This brochure is being provided so that you the water customer may know the quality of the drinking water that we provided last year. Included as part of this report are details about where the water that you drink comes from, what it contains and how it compares to the Environmental Protection Agency (EPA) and Indiana Standards. We are committed to providing you with all the information that you need to know about the quality of the water that you drink.

<u>What if I have special health considerations?</u>: 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. U.S. Environmental Protection Agency and Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the <u>Safe Drinking</u> Water Hotline at: (800)426-4791.

<u>What is Cryptosporidum?</u>: Cryptosporidum is a microscopic organism that lives in the intestines of animals and people. When ingested, this microscopic pathogen may cause a disease called cryptosporidiosis, which has flu-like symptoms. Although there has been no cryptosporidium found in treated finished drinking water, cryptosporidium is found not in source water such as our well field located at the westerly edge of Walnut Creek and consists of a common glacial aquifer. Brazil City Water Utility utilizes a stringent monitoring program, testing source water and finished drinking water as well as using online monitors that measure the clarity of the water, which helps determine the likeliness of the microbe's presence in the drinking water.

<u>Where does our water come from?</u>: The City of Brazil, Water Utility, water source is ground water wells located along the westerly edge of the Walnut Creek in Putnam County. This water source has been classified by the Indiana Department of Environmental Management, as a "Ground Water Source," not under the influence of surface water.

*How hard is my water*?: As is common with water in this region, Brazil's water is considered hard due to the natural levels of minerals iron and manganese. The water hardness typically ranges from around 16 to 20 grains per gallon (the measure often referred to in determining water softener settings).

**What is being done to improve water quality?:** Wellhead protection. In order to minimize the risk of ground water contamination, Brazil Water Utility in accordance with the State Wellhead Protection Rule and local ordinances has implemented a Wellhead Protection Program. This program involves working with local planning teams and regulators, mapping of the wellhead protection areas, identifying potential sources of ground water contamination, working with businesses to prevent spills and releases of chemicals, and preparing a contingency plane in case of contamination.

*Lead in drinking water & its effects on children:* 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. **Brazil City Water Works** 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 thirty (30) seconds to two (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 <a href="http://www.epa.gov/safe">http://www.epa.gov/safe</a> water/lead.

<u>What can I do to conserve water?</u>: Everyone plays an important role in water conservation. Measures you and your families take at home today are critical to ensuring an adequate supply of treatable drinking water in the future. For starters, don't let the water run when brushing your teeth or shaving, run dishwashers and washing machines only when they're full, and regularly check for leaks in toilets and faucets. Use a shut-off nozzle on your garden hose and never use water to clean sidewalks and driveways. Water your lawn no more than every other day and use a rain sensor on an irrigation system so the system turns off when it's raining. One of the easiest ways you can protect water quality is to limit the amount of fertilizer you use on your lawn, and always make sure it's phosphorus-free; the excess phosphorus provides nutrients for algae that can harm water quality. <u>A Source Water Assessment (SWA)-</u>has been prepared for our system, our system has been categorized with a moderately high susceptibility risk. More Information of this assessment can be obtained by contacting Mrs. Shawnette Szekely at 812-448-1700 at your convenience. You can also obtain additional information by contacting Mr. Alex Riddle of IDEM's Drinking Water Branch at (317)234-5025.

## **Questions?**

For more information about this report, or for any questions regarding the quality of your drinking water, please contact Shawnette Szekely Water Superintendent or Katrina Raubuch Water Treatment Plant Supervisor at (812) 448-1700

What does this chart mean?	the contai	minate is list	ed to the	eft, followed	l by the amo	unt that v	we found in	our water an	utility to test for. You'll notice d the maximum amount allowed <b>located at bottom of table.</b>	
Contami	Contaminate Violation Y/N		Level Detected		Unit Measure	MCL	MCLG	Major Sources in Drinking Water.		
Volatile Organic (yea								)1		
Bromodichioromethane		N			mg/L mg/L	NA	NA	By products of drinking water disinfection.		
Chlorofo	orm	N		0			NA	By products of drinking water disinfection.		
					<b>ic</b> (year: 20	-		Discharge fro	m steel and pulp mills; erosion of	
Chromium		N	0.001		mg/L	0.1	0.1	natural deposits.		
Cyanide(Free)(year 2017)		N	0.005		mg/L	0.2	NA	Steel, Plastic and Fertilizer Factories		
Barium		Ν	0.08		mg/L	2	2	Discharge from steel and pulp mills; erosion of natural deposits.		
Fluoride (Natural)		Ν	0.12		mg/L	2	N/A	Erosion of natural deposits; Water additive which promotes; Strong Teeth discharge from fertilizer & aluminum factories		
Sodium		N	1.09		mg/L	NA	NA	Naturally occurring		
Mercury		Ν	0.0002		mg/L	0	0.002	Erosion of natural deposits; discharged from refineries and factories; run off from landfills and croplands.		
Nitrate-N (year: 2019)		Ν	3.00		mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage, erosion of natural deposits.		
				Total Trih	alometha	nes (IN	5211001)			
			Avg.	Min/Max		-				
Total THM's (ye	ear 2019)	N	20.45	17.3/23.5	ug/L	80	NA	By products of drinking water disinfection.		
Haloacetic Acids (IN5211001)										
Total HAA5 (ye	ar 2019)	N	Avg. 8.8	6.6/11.0	ug/L	60	NA	By products o	of drinking water disinfection.	
									I with 90% of samples equal to or	
less than the i	-	-			-					
Lead (year 2017)		N	0.0036		mg/L	AL= 0.015	0	Corrosion of household plumbing systems; erosion of natural deposits.		
Copper (year 2017)		Ν	0.315		mg/L	AL= 1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.		
				Radiu	um 228 in	pCi/l te	sting	p		
Radium 228 in pCi/l testing (year 2017)		Ν	N 0.1			5		Naturally occurring or can be the result of oil and gas production and mining activities.		
				Microk	piological (	Contam	inants			
Violation Descr	iption	E	Begin Dat	e	End D	ate			tive measure taken.	
Total Coliform Test (Present)		n/a			n/a		Bac-T tests retaken with additional samples from all Ground Water well sources, along with upstream and downstream fro positive sample. Samples submitted to IDEM for further tests samples that were tested came back negative/absent for Tota Coliform. the aforementioned Violation:			
Coliform Total									tor that other; potentially-harmful,	
bacteria may b				ne of the sam		vas a warr	ning of poten			
Contaminate	Date	MCL	N	1CLG	Units	Results	Min/Max	Violates	Likely Sources	
Chlorine Residual	2019	4 MRDL			.90 mg/L		.50 / 1.78 mg/L	No	IN5211001 -Water Additive (disinfectant) Used to control microbiological organisms.	
			What do	all of these	e terms me	an? <mark>(Im</mark> r		finitions)		
N/A- Either not available or not applicable. MCLG- Maximum Contaminate Level Goal: the level of a contaminate in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.						<b>Turbidity</b> -The measure of the cloudiness of water. IW monitors turbidity as it is a good indicator of the effectiveness of the filtration system. <b>P*</b> -Potential violation, one that is likely to occur in the near future once the system has sampled for four quarters.				
MCL-Maximum Contaminate 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.						Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.				
<b>MRDL</b> -Maximum Residual Disinfectant Level: The highest level of the disinfectant allowed in drinking water. There is convincing evidence that the addition of disinfectant is necessary for control of microbial contaminants.						ppb-Parts per billion. pCi/L-Picocuries per liter, used to measure radioactivity. org/10L-Organisms per 10 liters.				
NTU-Nephelometric Turbidity Units: Unit to measure turbidity. SMCL-Secondary Maximum Contaminant Limits: Non-mandatory guidelines established by the EPA to assist utilities in managing drinking water for aesthetic considerations, such as taste, odor and color. These contaminants are not considered to present a risk to human health at the SMCL.						<b>TOC</b> -Total organic carbon. <b>AL</b> -Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. <b>ND</b> -Not Detected, The result was not detected at or above the analytical method detection level.				