

# Consumer Confidence Report



## On Annual Water Quality

Whitestown Municipal Utilities

PWSID IN5206014

For The Period of:

January 1 to December 31, 2018

This report is intended to provide our water customers with important information about your drinking water and the efforts made by Whitestown Municipal Utilities to provide safe drinking water. As required by the U.S. Environmental Protection Agency (EPA), these drinking water reports provide information on where water comes from and how it compares to current standards.

Since all of Whitestown's water is purchased through Citizens Water, a Consumer Confidence Report from Citizens Water is also included.

If, after reading these reports, you have any questions or concerns, please contact us at (317) 733-8584.

### Informacion Muy Importante:

Este informe contiene informacion muy importante sobre el agua que usted bebe. Traduzcalo o hable con alguien que lo entienda bien.

## What Is The Source of Water for Whitestown's System?

Whitestown's customers receive 100% of their water purchased by Whitestown Municipal Utilities (WMU), which originates from Citizens Water and is transported through WMU's distribution system.

The water supply for Citizens Water comes from several sources including White River and Fall Creek, as well as the Geist, Morse, and Eagle Creek Reservoirs.

Citizens Water also supplements their supply through a number of wells for smaller areas which it serves directly.

Following treatment by Citizens Water, the treated water is piped to a connection point adjacent to one of two Whitestown booster pumping stations and then into the distribution system. These facilities are owned and operated by WMU.

## Protecting The Water Supply for the Whitestown System

To minimize the risk of groundwater contamination, a *Drinking Water Protection Program* has been implemented by Citizens Water in accordance with the state's Wellhead Protection Rules and local ordinances. This program involves:

- working with local planning teams and regulators,
- mapping of the drinking water protection areas,
- identifying potential sources of groundwater contamination,
- working with businesses to prevent spills and releases of chemicals, and
- preparing a contingency plan in case of contamination.

For more information on drinking water protection and wellhead protection, visit [www.citizensenergygroup.com](http://www.citizensenergygroup.com) or call Citizens Water at (317) 924-3311.

# You Can Help!

Decisions you make about your water usage have an impact on water quality. Here are a few suggestions for actions you can take to help keep water supplies clean and plentiful.

1. Limit lawn watering to 2-3 times per week. The best time to water lawns and other plants is between 4:00am-7:00am.
2. Don't dump soap, motor oil, fats, grease, pharmaceuticals, or other waste products into house drains, storm drains, creeks, or streams.
3. Sweep driveways, sidewalks, and steps rather than hosing them off. Turn off garden hoses when not in use.
4. Check for leaks in your plumbing to save water and money.
5. Wash vehicles in grassy areas to prevent runoff into storm sewers.
6. Add rain barrels to your downspouts and incorporate rain gardens to your yard to collect water for watering plants or washing vehicles.



If you have any questions about the Consumer Confidence Report, please contact Danny Powers at [dpowers@whitestown.in.gov](mailto:dpowers@whitestown.in.gov) or 317-732-4328

## To Whitestown Customers...

On behalf of the Whitestown Town Council, we want to express our appreciation for having you as our customer. While we work diligently to provide the best service possible, we need your help. If you see standing water on the road, in a ditch, or in a yard, and it hasn't been raining – please call us. If you see anyone filling up water tanks directly from a hydrant – please call us immediately! If you see a vehicle has hit a hydrant – please call us! Help us become more proactive by reporting potential problems. Our customers help us provide better service and deliver a high quality water product. We welcome your involvement.

Indianapolis Road Water Tower



Annual Water Quality Report  
Whitestown System—Jan 1-Dec 31,  
2018

## Water Quality Test Results

The following tables contain scientific terms and measures, some of which may require explanation.

- **AL (Action Level)** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements or action which a water system must follow.
- **ALG (Action Level Goal)** The level of a contaminant in drinking water below which there is no known risk to health. ALGs allow for a margin of safety.
- **Avg (average)** Regulatory compliance with some MCLs are based on running annual average of monthly samples.
- **LRAA (Locational Running Annual Average)** The average of sample analytical results for samples taken at a particular monitoring location during the previous four (4) calendar quarters.
- **MCL (Maximum Contaminant Level)** 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.
- **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.
- **ppm (parts per million)** or milligrams per liter; one ounce in 7,350 gallons of water.
- **ppb (parts per billion)** or micrograms per liter; one ounce in 7,350,000 gallons of water.

## 2018 Regulated Contaminants Detected

**Lead and Copper.** 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 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 Whitestown water system is a consecutive system to Citizens Water which also samples and monitors water quality.

### Lead and Copper

Substances Detected	Date Sampled	Substances Detected	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	9/1/2016	Copper	1.3	1.3	.726	0	ppm	NO	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.
Lead	9/1/2016	Lead	0	15	1.6	0	ppb	NO	Corrosion of household plumbing systems; erosion of natural deposits.

### Regulated Contaminants

Disinfectants and Disinfection By-products	Collection Date	*Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2018	42.8	16.5-73.5	No Goal for Total	60	ppb	NO	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2018	62.7	40-104	No Goal for Total	80	ppb	NO	By-product of drinking water disinfection

\*Based on a running annual average

### Coliform Bacteria

MCLG	Total Coliform MCL	Highest No. of Positive	Fecal Coliform or E. Coli MCL	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 Positive Monthly Sample	1	0	0	NO	Naturally present in the environment.

**Citizens Energy Group--Indianapolis and Morgan County  
Consumer Confidence Report Data 2018**

Contaminant	MCLG (Goal)	MCL (Limit)	Average of All Samples	Maximum of All Samples	2018 System Wide Range	Compliance Achieved	Possible Source
<b>Inorganics:</b>							
Antimony (ppb)	6 ppb	6 ppb	ND	ND	ND	YES	Natural deposits
Arsenic (ppb)	0 ppb	10 ppb	BDL	1.9 ppb	ND - 1.9 ppb	YES	Natural deposits
Barium (ppm)	2 ppm	2 ppm	0.13 ppm	0.29 ppm	0.037 - 0.29 ppm	YES	Natural deposits
Chromium (ppb)	100 ppb	100 ppb	1.4 ppm	3.2 ppm	ND - 3.2 ppm	YES	Natural deposits
Fluoride (ppm)	4 ppm	4 ppm	0.75 ppm	1.2 ppm	0.24 - 1.2 ppm	YES	Natural deposits & treatment additive
Nitrate (ppm)	10 ppm	10 ppm	0.79 ppm	4.8 ppm	ND - 4.8 ppm	YES	Fertilizer, septic tank leachate
<b>Other Regulated Organics:</b>							
2,4-D (ppb)	70 ppb	70 ppb	ND	ND	ND	YES	Herbicide runoff
Atrazine (ppb)	3 ppb	3 ppb	BDL	1.8 ppb	ND - 1.8 ppb	YES	Herbicide runoff
Benzo[a]pyrene (ppb)	0 ppb	0.20 ppb	ND	ND	ND	YES	Leaching from linings of water storage tanks and distribution lines
Simazine (ppb)	4 ppb	4 ppb	BDL	1.2 ppb	ND - 1.2 ppb	YES	Herbicide runoff
Toluene (ppb)	1,000 ppb	1,000 ppb	BDL	1.5 ppb	ND - 1.5 ppb	YES	Discharge from petroleum refineries
Total Xylenes (ppb)	10,000 ppb	10,000 ppb	ND	ND	ND	YES	Discharge from petroleum refineries
<b>Turbidity:</b>							
		TT					
Turbidity (NTU)	N/A	1 NTU	0.12 NTU	0.19 NTU	0.075 - 0.19 NTU	YES	Soil runoff
Turbidity (% below TT)	N/A	95% <0.3 NTU	N/A	N/A	100%	YES	Soil runoff
<b>* Secondary standards are 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>							
<b>Secondary Drinking Water Standards:</b>							
	<b>MCLG (Goal)</b>	<b>SMCL</b>					
Aluminum (ppb)	N/A	200 ppb	42 ppb	175 ppb	ND - 175 ppb	N/A	Natural deposits; water treatment additive
Chloride (ppm)	N/A	250 ppm	65 ppm	139 ppm	25 - 139 ppm	N/A	Natural deposits; water treatment additive
Hardness (ppm)	N/A	N/A	305 ppm	453 ppm	138 - 453 ppm	N/A	Erosion of natural deposits; leaching
Iron (ppm)	N/A	0.3 ppm	BDL	0.21 ppm	ND - 0.21 ppm	N/A	Erosion of natural deposits; leaching
Manganese (ppm)	N/A	0.05 ppm	ND	ND	ND	N/A	Erosion of natural deposits; leaching
Metolachlor (ppb)	N/A	N/A	ND	ND	ND	N/A	Herbicide runoff
Nickel (ppb)	100 ppb	N/A	BDL	2.3 ppb	ND - 2.3 ppb	N/A	Erosion of natural deposits; leaching
pH (Standard Units)	N/A	6.5 - 8.5	7.78	8.48	7.00 - 8.48	N/A	
Sodium (ppm)	N/A	N/A	37 ppm	86 ppm	14 - 86 ppm	N/A	Erosion of natural deposits; leaching
Sulfate (ppm)	N/A	250 ppm	46 ppm	165 ppm	8.8 - 165 ppm	N/A	Erosion of natural deposits; leaching
Zinc (ppb)	N/A	5000 ppb	0.32 ppb	5.7 ppb	ND - 5.7 ppb	N/A	Natural deposits
<b>Untreated Source Water:</b>							
Cryptosporidium (org/10L)	N/A	N/A	1	2	ND - 2 oocysts / 10 L	N/A	
Giardia (org/10L)	N/A	N/A	2	8	ND - 8 cysts / 10 L	N/A	
TOC (Untreated Water, ppm)	N/A	N/A	4.1 ppm	8.9 ppm	2.5 ppm - 8.9 ppm	N/A	Naturally present in the environment
<b>Indianapolis</b>							
<b>Disinfectant Residual:</b>							
	<b>MRDLG</b>	<b>MRDL</b>					
Chlorine (as Cl2)	4 ppm	4 ppm	1.48 ppm	2.9 ppm	0.020 - 2.9 ppm	YES	Water additive used to control microbes.
<b>Copper and Lead (Indianapolis)</b>							
	<b>MCLG</b>	<b>AL</b>					
Copper (ppm) [2018 Data]	1.3 ppm	1.3 ppm	0.090 ppm	0.43 ppm	0.27 ppm is the 90th Percentile (0 of 55 > AL) 8.2 ppb is the 90th Percentile (2 of 55 > AL)	YES	Corrosion of customer plumbing
Lead (ppb) [2018 Data]	0 ppb	15 ppb	3.7 ppb	36 ppb		YES	Corrosion of customer plumbing
<b>Organic Disinfection By-products (Indianapolis)</b>							
Total Trihalomethanes (TTHMs)	N/A	80 ppb	66 ppb	82 ppb	71 ppb is the Highest Locational Running Annual Average (Result Range 18 - 82) 45 ppb is the Highest Locational Running Annual Average (Result Range 8.9 - 90)	YES	By-product of chlorination treatment
Haloacetic acids (HAA5)	N/A	60 ppb	45 ppb	90 ppb		YES	By-product of chlorination treatment
<b>Microorganisms (Indianapolis)</b>							
E coli	0	1	N/A	N/A	0	YES	Human and animal fecal waste
Total Coliforms	N/A	5.0%	0.37%	2.4%	0 - 2.4%	YES	Naturally present in the environment
Cryptosporidium (org/10L)	0 org/10L	TT	N/A	N/A	No Organisms Found	YES	Removed during treatment
Giardia (org/10L)	0 org/10L	TT	N/A	N/A	No Organisms Found	YES	Removed during treatment
<b>Radionuclides (Indianapolis): [2016 Data]</b>							
Combined Radium (-226 & -228)	0	5 pCi/L	N/A	N/A	0 - 1.7 pCi/L	YES	Erosion of natural deposits
Combined Uranium	0	30 ppb	N/A	N/A	0.13 - 0.93 ppb	YES	Erosion of natural deposits
Gross Alpha, Excl. Radon & Uranium	0	15 pCi/L	N/A	N/A	2.1 - 8.8 pCi/L	YES	Erosion of natural deposits
<b>Morgan County</b>							
<b>Disinfectant Residual:</b>							
	<b>MRDLG</b>	<b>MRDL</b>					

**Citizens Energy Group--Indianapolis and Morgan County  
Consumer Confidence Report Data 2018**

Contaminant	MCLG (Goal)	MCL (Limit)	Average of All Samples	Maximum of All Samples	2018 System Wide Range	Compliance Achieved	Possible Source
Chlorine (as Cl <sub>2</sub> )	4 ppm	4 ppm	1.1 ppm	1.4 ppm	0.050 - 1.4 ppm	YES	Water additive used to control microbes.
<b>Copper and Lead (Morgan County)</b>							
	<b>MCLG</b>	<b>AL</b>					
Copper (ppm) [2018 Data]	1.3 ppm	1.3 ppm	0.070 ppm	0.16 ppm	0.12 ppm is the 90th Percentile (0 of 24 > AL)	YES	Corrosion of customer plumbing
Lead (ppb) [2018 Data]	0 ppb	15 ppb	1.2 ppb	7.7 ppb	3.5 ppb is the 90th Percentile (0 of 24 > AL)	YES	Corrosion of customer plumbing
<b>Organic Disinfection By-products (Morgan County)</b>							
Total Trihalomethanes (TTHMs)	N/A	80 ppb	N/A	2 Samples	11 (Highest Sample)	YES	By-product of chlorination treatment
Haloacetic acids (HAA5)	N/A	60 ppb	N/A	2 Samples	5.1 (Highest Sample)	YES	By-product of chlorination treatment
<b>Microorganisms (Morgan County)</b>							
E coli	0	1	N/A	N/A	0	YES	Human and animal fecal waste
Total Coliforms	N/A	5.0%	N/A	N/A	0	YES	Naturally present in the environment