Town of Nashville Utilities

2022 Water Quality Report

Town of Nashville Utilities Town Council President, Nancy Crocker Town Manager, Sandie Jones Administration Manager, Phyllis Carr

Customer Service: 812-988-5526 Billing Office: 812-988-7064

The Town of Nashville Utilities wants you, our customers, to be informed of the excellent quality of our water. This report is a summary of the quality of water provided to our customers last year.

Included in this report are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. The Town of Nashville Utilities is committed to providing you with information about your water supply, because customers who are well informed are our best allies in supporting improvements necessary to maintain the highest drinking water standards. For more information about your water, call our Customer Service at 812-988-5526 and ask for Phyllis Carr.

Water Quality Tables

The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk, Unless otherwise noted, the data presented in these tables is from testing done January 1 to December 31, 2021. The state requires us to monitor for certain contaminants less than once per year because the concentration of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality is more than one year old.

What Is a Part Per Million?

The units of measure for contaminants in the table are primarily milligrams per liter (mg/l). One mg/l is the same as one part per million (ppm). Some comparisons for 1 ppm are one penny in \$10,000 or one inch in almost 16 miles.

Special 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 and CDC 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.

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. Town of Nashville Utilities 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.

We Welcome Your Interest

If you are interested in learning more about the water department policy and water quality, contact the office of the Town Administrator at 812-988-5526. If you would like to attend meetings regarding your water system, the Nashville Town Council meets at 6:30 pm the third Thursday of each month at 200 Commercial Street, Nashville, Indiana. Town Council Meetings are open to the public

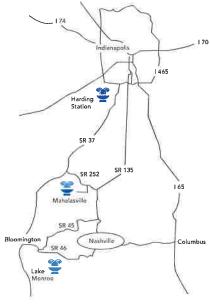


Your water source

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 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, such as viruses and bacteria, 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 production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water 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 storm water 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 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 Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. 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.



TOWN OF NASHVILLE UTILITIES
2022 WATER SOURCES

Brown County W	ater Utility,	Inc. 2021 Consu	ner Confi	dence Re	port Data
Nashville received 100	% of it's water fr	rom Brown County Wa	ter in 2021.		
Substance	MCL	Highest Result and Range Detected	Ideal Goals MCIG	Compliance Achieved?	Likely Source of Contamination
		Lead and Copper	(2014)		
Lead (1) (2)(2020)	15 ppb	90m Percent'e system arca: 3 ó ppb	0 ррь	Yes	Corrosion of Customer Plumbing
Copper (1) (2) (2020)	1.3 ppm = AL	90th Artest is system wice 0.157 ppm	1.3 ppm	Yes	Corrosion of Customer
		Regulated Contac	minants		
Disinfectant Residual:					
Free Chlorine (ppm)	MRDL=4	1.52 (1.40-1.69)	MRDLG=4	Yes	Water additive used to control microbes.
Microorganisms:					
E Coli	MRDL=1	ND	ND	Yes	Human or animal waste
Organic Disinfection By-Pro	educta				
Haloacetic Acids (HAA5) (ppm)	60 ppb	RAA=16.8 (range=11.8-27.6)	No goal for total	Yes	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppm)	80 ppb	RAA=33.8 (range=23.7-67.0)	No goal for total	Yes	By-product of drinking water disinfection
Inorganics					
Arsenic (ppb) (3) (2020)	10 ppb	2.5 ppb	.0	Yes	Erosion of natural deposits
Barrum (ppm) (2020)	um (ppm) (2020) 2 ppm 0.07		.0	Yes	Erosion of natural deposits
Fluoride (ppm) (2020)	4 ppm	0.1 ppm	4 ppm	Yes	Natural deposits and treatment additive
Sodium (ppm) (2017)	unregulated	76.6 ppm	unregulated	Yes	Natural deposits and by product of water treatment (softening)
Organic:					
Nitrate (ppm) (2019)	10 ppm	0.2	10 ppm	Yes	Fertilizer, septic tank leachate
Radionudides:					
Beta/photon emitters (2019)	4 mrem/yr	1.4 (range = 1.4-1.4)	0	Yes	Decay of natural and man-made deposits
Combined Radium 226/228 (2019)	5 pCi/L	1.5 (range = 1.5-1.5)	0	Yes	Erosion of natural deposits
Gross Alpha Excluding Radon and Uranium (2019)	15 pCi/L	0.47 (range = 0.47-0.47)	0	Yes	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 AL
(3) While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPA standards balances the current understanding of arsenics possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such a skin damage and circulatory problems.

Citizens Energy Group 2021 Treated Drinking Water Quality Data

In addition to producing our own water, Brown County Water Utility, Inc. purchases water from Citizens Energy

Group. The following information is provided relative to that supply

Substances Detected (units)	MCLG (goal)	MCL(limit)/AL	Compliance Achieved	Highest Breach & (Reage Detected)	Possible Source Where did it come from?
Arsenic (ppb)	0 ppb	10 ppb	Yes	ND - 1 6 ppb	Erosion of Natural Deposits
Barium (ppm)	2 ppm	2 ppm	Yes	0 042 - 0 28 ppm	Erosion of Natural Deposits
Fluoride (ppm)	4 ppm	4 ppm	Yes	0.26 - 0.97 ppm	Natural deposits & treatment additive
Nitrate (ppm)	10 ppm	10 ppm	Yes	ND - 3.6 ppm	Fertilizer, septic tank leachate
Selenium (ppb)	50 ppb	50 ppb	Yes	ND	Discharge from patroleum refineres, erotion of natural deposits, discharge from mines
Sodium (ppm)	NA	NA.	NA .	12 - 120 ppm	E-salon of Natural Deposits, leaching
Simazine (ppb)	4 ppb	4 ppb	Yes	ND - 0.56 ppb	Herbicide runoff
Copper (ppm) (2021 data)	1.3 ppm	1.3 ppm (90th percentile)	Yes	0 25 ppm is the 90th percentile (0 of 73>AL)	Corrison of customer plumbing
Lead (ppb) (2021 data)	0 ррь	15 ppb (90th percentile)	Yes	7.7 ppb is the 90th percentile (2 of 73>AL)	Corrison of customer plumbing
Aluminum (ppb)	NA	200 ppb	NA	ND - 144 ppb	Natural deposits & water treatment additive
Chloride (ppm)	NA	250 ppm	NA	17 - 170 ppm	Natural deposits & water treatment additive
Iron (ppm)	NA	0.3 ppm	NA	ND - 0.063 ppm	Erosion of Natural deposits, leading
Total Trihalomethanes (TTHMs)	NA	80 ppb (LRAA)	Yes	16 - 71 ppb	By-product of chlorination treatment
Haloacetic acids (HAA5)	NA	60 ppb (LRAA)	Yes	15 - 56 ppb	By-product of chlorination treatment

(1) Levels detected represent the 90th percentile value as calculated from total samples in test year.
(2) No test results were above AL

City of Bloomington Utilities 2021 Treated Deleting Water

City of Bioomingt	on oundes for i	meated Drinking	1 AAUGU COUNT	Ly Date	
Substance	Highest Level	Highest Level Detected	Ideal Goals	Violation	Source of Contamination
Contract to the Contract	The state of the state of	Microbinlegical Con-	taminanti		
Tutal Conform Bacteria	5 percent	1.2 persent	0	1 No	Maturally present in the environment.
Yatat Organic Carbon (1000)	minimum 35% cernment	39.9% removal average"	None	No	high raily greatest or the amironment
Turbitlity	Tayonan Serlmant (TT)*	0.65 turbidity units	None	74.6	Sod nunett
		Radioactive Conta	minants		
Grass atpha excluding radion and usersion.	15 pCi/L*	1 16 pCi/L	0	No	Emeion of natural deposits
Fadium 228 *	S a Gi/L	8.362 pC//L	n n	No	Erosine of natural disposits:
		Inorganic Contam	nants		
Ranum	2 ppm ⁴	0.012 aann	2 ppm	Ne	Erosian of natural degreeits
Copper	TT: Action Level* = 1.3 ppm	0.042 ppm (***** ***** *****	1.3 ppm	No	Common of Insulational planting systems or own of natural deposits
Chicamines Les Chicaine)	4.0 posts DMRDLY	3.0 ppm.*	4 ppm (MNDLG)*	No	Water additive to control morrobes
lasd	TT: Action Level = 15 ppb*	4 6 ppb (900) Autor 4)*	0	No	Common of household planting systems: emailer of natural deposits
		Organic Contami		ļ	
Total Tobalsmethages (TTHM)	90mmb		Carrier C	1	By produce of drinking water d-sinfection
	50000	48.7 ppb serrage*	0	No	
Halmacatic Arish (HAA5)	60pph 3ppb	42.2 ppb everage '	750	No.	By produce of dripking water disinfection. Buooff from harboard used on row crops
Atriaine 2,4-D	70 pob	0.2 ppb	70 ppb	No	Bugget from high side used to row proces

LISTED ABOVE are 13 contaminants detected in Bloomington's drinking water during 2021. All are within allowable levels. Not listed are the over 65 primary

contaminants for which we tested	that were	not detected

		at contribution and at		Land and Copper			in .	
Substance	Data Sampled	Ideal Goals	Action Level (AL)	90th Percentile	# Sites Over AL	Write	Violation	Source of Contemination
Copper	09/15/2020		13	1.291	0	ppm	ti.	Disposed falls of present in Jacks of the most personal way: Common of transmiss promiting systems.
Leaf	09/15/2020	0	15	8.9	((0))	ppb	N	Carros on al household plun (Evoson of natural discounts)
			Disinfects	ents and Disinfection P	y Products		13	
Substance	Collection date	Highest Level Detector	Range of Levels Detected	ideal Goals	Allowed (Love)	Units	Violation	Source of Contemination
Désnie	2021		1.1	MRCLG+4	MEDIA	200	N.	West addition to control records
Heloacetoc Ac eds HAASI	2921	18.5	12922	No Goal for the Youl	60	pph	N .	By praduce of driviling water disorfection
de Transerario	2021	51.5	26.6-53.2	He Great for the Total	80	ppb	N.	By-product of danking water dashfection

and the first and the second of the second o							
Violation Type	Violation Begin	Violation End	Violation Explanation				
REPORT SAMPLE RESULT/FAIL MONITOR RTCR	08/01/2021	08/31/2021	We failed to submit sample results or report a failure to test our drinking water in a timely manner.				

ADDITIONAL INFORMATION:
Data list is from 2021 or the most recent testing in accordance with regulations. No samples a Allowable Limin. Not listed are th tested that were not detected. We are proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing tha ome constituents have been detected. The EPA has determined that your water IS SAFE at

In Addition to producing our own water, Brown County Water Utility purchases water from Citizens Energy Group and Jackson County Water Utility, Inc. The following information is provided as required relative to those supplies

*DEFINITIONS:

90th Percentile - Ninety percent of samples had lower values than the value indicated.

Action level - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow

Average level - Regulatory compliance with some MCLs are based on running annual average of monthly samples.

CFU/ml - Colony forming units per milliliter.

Colony Forming Unit - An area of visually distinct bacterial growth which may result from a single bacterium or pairs, clusters or chains of bacteria.

Locational Running Annual Average (LRAA) - Average of the four most recent quarterly samples, for each sample site, collected for reporting purposes

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 contaminant in drinking water below which there is no known or expected risk to health, MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - 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.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health, MRDLGs do no reflect the benefits of the use of disinfectants to control microbial

MREM - Millirems per year (a measure of radiation absorbed by the body.

NA - Not applicable

pCi/I - Picocuries per liter is a measure of radioactivity in water. A picocurie is 10-12 curies and is the quantity of radioactive material producing 2.22 nuclear transformations per minute.

ppm - parts per million. Equivalent to milligrams per liter (mg/l)

ppb - parts per billion. Equivalent to Micrograms (ug/l)

Total Organic Carbon (TOC) - a measurement of natural and man-made organic material in the water. TOC reacts with disinfectants to form disinfection by-products

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

ADDITIONAL INFORMATION:

- Total Organic Carbon (TOC) removal percentages ranged from 33.4% to 45.2%.
- Turbidity levels ranged from 0.62 to 0.65 with an average of 0.03 furbidity writs. The levels level of campitance on a monthly bean way 100%.
- 3. Data listed are from 2015 and are the most recent lesting done in accordance with regulations.
- 4 No sites exceeded the Action Level for either Lead or Copper.
- 5. Chloramine levels ranged from 0.73 to 3.0 ppm, with an average of 2.24 ppm
- 6. Average hited is the greatest LRAA for any sample site during 2021. Total thishomethane levels ranged from 22 is 0.71 9 ppb. Some people who drink water containing trislomethanes in excess of like MCC over many speas could experience problems with their liver, kidneys, or central nervous systems and may have increased risk of getting causes.
- Average listed is the greatest URAA for any sample site during 2021. Haloacetic acids (HAA5) levels ranged from 21 to to 85 ppb. Some people who drink water containing haloacetic acids in excess for the MCL over many years may have an increase risk of getting cancer.