

# WAYNOKA WATER SUPPLY

Consumer Confidence Report for 2022

## What is a Consumer Confidence report?

In 1996, Congress amended the Safe Drinking Water Act. It added a provision requiring that all community water systems deliver to their customers a brief annual water quality report. Consumer Confidence Reports (CCR's) summarize information that the water system already collects to comply with regulations. Every community water system that has at least 15 service connections serving year-round residents must prepare and distribute a report. These systems typically include cities, towns, homeowner's associations, and trailer parks. Each water system must deliver its annual report to consumers by July of the following year. Although Waynoka Regional Water & Sewer District analyzes for many contaminants, only those contaminants that were detected are listed within the table. This report is based on data collected in the 2022 calendar year unless otherwise noted. Not all contaminants are required to be analyzed each year. The table lists those contaminants detected most recently within the past five years. For additional information, please call the Waynoka Water Treatment Plant at 937-446-3256 or attend a Board of Trustees meeting which are held on the fourth Monday of every month at 7:00 p.m. & the second Saturday of every month at 9:30 a.m. in the Waynoka Lodge.



## ***THE SOURCE OF YOUR WATER:***

The Lake Waynoka water system is owned and operated by the Waynoka Regional Water & Sewer District. The "Surface" water treatment plant described on the previous page is theoretically capable of producing approximately 425,000 gallons of potable water per 24-hour period. The treatment plant purifies the water through conventional means utilizing a combination of coagulation, settling, and filtration. An additional stage of treatment was added in the spring of 2008 whereby the filtered water is further treated with Granular Activated Carbon for organic contaminant removal. For the purposes of source water assessments, all surface waters are considered to be susceptible to contamination. By their nature surface waters are open and accessible and can be readily contaminated by chemicals and pathogens, with relatively short travel times from source to the intake. Based on the information compiled for this assessment, Waynoka RW&SD's drinking water source protection area is susceptible to contamination from agriculture, residential and commercial sources, and from accidental releases and spills.

### ***Why are there contaminants in my water?***

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which shall 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 contaminants does not necessarily indicate that 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 800-426-4791.

### ***Is our water meeting other rules that govern our operation?***

The Ohio EPA requires us to test our water for various parameters on a regular basis to ensure its safety. Waynoka water supply had water reporting violations for TTHM, HAA5 and water quality violations for turbidity post treatment in 2022.

### ***Do I need to take special precautions?***

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/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.

### ***What are sources of contamination to drinking water?***

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 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: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; (D) Organic

chemical contaminants, 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; (E) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

***A Word about Lead:***

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. Waynoka Regional Water 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>.

***A Word about Turbidity:***

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 1 NTU at any time. As reported in the table, Waynoka Water Supply's highest recorded turbidity result for 2022 was 0.94 NTU and lowest monthly percentage of samples meeting the turbidity limits was 74%.

***TOC Values:***

The value reported under "Level Found" for Total Organic Carbon (TOC) is the lowest ratio between percent of TOC removed to the percentage of TOC required to be removed. A value greater than one (1) indicates that the water system is in compliance with TOC removal requirements. A value of less than one (1) indicates a violation of the TOC removal requirements.

***License To Operate:***

In 2022, we had an unconditional license to operate our water system.

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source of Contaminants
<b>Microbiological Contaminants</b>							
Turbidity (NTU)	NA	TT	0.94	0.1-0.94	YES	2022	Soil runoff.
Turbidity (% meeting standard)	NA	TT	74%	74%-100%	YES	2022	
Total Coliform	NA	TT	Positive	N/A	NO	2022	Human and animal waste
Fecal Indicator (E. Coli)	NA	TT	Positive	N/A	NO	2022	Human and animal waste
Cyanobacteria, Total	0.3 AL for children under 6 and sensitive populations. 1.6 for children 6 and older adults	NA	2690	ND-2690	NO	2022	Produced by some naturally occurring cyanobacteria, also known as blue-green algae, which under certain conditions (i.e., high nutrient concentration and light intensity) may produce microcystins.
Cylindrospermopsin			ND	ND	NO	2022	
Microcystins / Nodularin			ND	ND	NO	2022	
Microcystins, Total (ppb)			ND	10	NO	2022	
Saxitoxin			ND	ND	NO	2022	

***e-Coli Positive Distribution Sample:***

On 9/29/2022 we were informed that one of our routine bacteria samples collected on 9/28/2022 was total coliform positive. As required by the Ground Water Rule, we collected 4 additional samples from the distribution system for fecal contamination analysis. The repeat/additional samples were negative for fecal contamination (E. coli). Inadequately treated or inadequately protected water may contain disease-causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps, and associated headaches. Fecal indicators are microbes whose presence indicates that the water may be contaminated with human or animal waste. Microbes in these pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune system. In response, we sent notices to all our customers within 24 hours of learning of this positive sample. It was determined that a potentially inaccurate sample had been collected.

Inorganic Contaminants							
Fluoride	4	4	0.32	1.32	NO	2022	Water additive which promotes strong teeth
Nitrate (ppm)	10	10	1.03	<0.05 - 1.03	NO	2022	Runoff from fertilizer use; Erosion of natural deposits.
Nitrite (ppm)	0.08	0.08	ND	ND	NO	2022	Runoff from fertilizer use; Erosion of natural deposits.
Barium (ppm)	2	2	0.333	N/A	NO	2022	Erosion of natural deposits
Antimony, Total (ppb)	6	6	<3.0	N/A	NO	2022	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic, Total (ppb)	10	0	ND	N/A	NO	2022	Erosion of natural deposits
Mercury, Total (ppb)	2	2	ND	ND	NO	2022	Discharge from petroleum and metal refineries, erosion from natural deposits
Selenium, Total (ppb)	50	50	<3.0	N/A	NO	2022	Discharge from petroleum and metal refineries, erosion from natural deposits
Thallium, Total (ppb)	2	0.05	<1.0	N/A	NO	2022	Leaching from ore-processing sites; Discharge from electronics, glass and drug factories.
Chromium, Total (ppb)	100	100	ND	N/A	NO	2022	from electronics, glass, and drug factories
Cadmium, Total (ppb)	5	5	ND	N/A	NO	2022	Erosion of natural deposits
Disinfection Byproducts							
TTHMs (ppb) [Total Trihalomethane]	N/A	80	60.2	18 - 60.2	NO	2022	Byproduct of drinking water chlorination.
HAA5 (ppb) [Haloacetic Acids]	N/A	60	36.0	4.6-36.0	NO	2022	Byproduct of drinking water chlorination.
Residual Disinfectants							
Total Chlorine (ppm)	MRDLG 4	MRDL 4	2.06	0.93 -2.44	NO	2022	Water additive used to control microbes.

Lead and Copper							
Contaminants (Units)	Action Level (AL)	Individual Results over the AL	90% of test levels were	Violation	Year Sampled	Typical Source of Contaminants	
Lead (ppb) (MCLG = zero)	15	N/A	<5.0	No	2020	Corrosion of household plumbing systems.	
	0 out of 30 samples were found to have lead in excess of the lead AL of 15 ppb.						
Copper (ppm) (MCLG = 1.3 ppm)	1.3	N/A	<0.163	NO	2020	Corrosion of household plumbing systems.	
	0 of 30 samples were found to have copper in excess of the copper AL of 1.3 ppm.						
Total Organic Carbon (TOC)							
MCL	Minimum Ratio of % removal to required % removal	Level Found	Range of Monthly ratios	Violation	Year Sampled	Typical Source of Contaminants	
TT	1	2.0	1.8 - 2.0	NO	2022	Naturally present in the environment.	
Unregulated Contaminants							
Bromodi-chloromethane (ppb)	NA	NA	8.80	4.3-8.8	NO	2022	By-product of drinking water chlorination
Bromoform (ppb)	NA	NA	5%	ND-5.2	NO	2022	
Chloroform (ppb)	NA	NA	49.70	2.4-49.7	NO	2022	
Dibro-mochloromethane (ppb)	NA	NA	8.8	0.8-8.8	NO	2022	
Monochloroacetic Acid (ppb)	NA	NA	3.6	ND-3.6	NO	2022	
Dichloroacetic Acid (ppb)	NA	NA	13.2	1.5-17.0	NO	2022	
Trichloroacetic Acid (ppb)	NA	NA	15.4	ND-15.4	NO	2022	
1,1,1-Trichloroethane	NA	NA	ND	ND	NO	2022	Factories, runoff, industries
1,1,2-Trichloroethane	NA	NA	ND	ND	NO	2022	
1,1-Dichloroethene	NA	NA	ND	ND	NO	2022	
1,2,4-Trichlorobenzene	NA	NA	ND	ND	NO	2022	
1,2-Dichlorobenzene	NA	NA	ND	ND	NO	2022	
1,2-Dichloroethane	NA	NA	ND	ND	NO	2022	
1,2-Dichloropropane	NA	NA	ND	ND	NO	2022	
1,4-Dichlorobenzene	NA	NA	ND	ND	NO	2022	
Ethylbenzene	NA	NA	ND	ND	NO	2022	
Methylene Chloride	NA	NA	ND	ND	NO	2022	
Trichloroethene	NA	NA	ND	ND	NO	2022	
Vinyl Chloride	NA	NA	ND	ND	NO	2022	
Simazine (ppb)	NA	NA	0.12	N/A	NO	2022	
Styrene (ppb)	NA	NA	ND	N/A	NO	2022	
Sulfate (ppm)	NA	NA	32	N/A	NO	2022	
Tetrachloroethene (ppb)	NA	NA	ND	N/A	NO	2022	
Toluene (ppb)	NA	NA	ND	N/A	NO	2022	
Nickel, Total (ppb)	NA	NA	ND	N/A	NO	2022	

## Contaminant Monitoring Definitions:

- **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 Contaminant Level (MCL):** 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.
- **Maximum Residual Disinfectant level goal (MRDLG):** The level of 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.
- **Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water there is convincing evidence that addition of disinfectant is necessary for control of microbial contaminants.
- **Parts Per Million (ppm):** Units of measure for concentration of a contaminant a part per million corresponds to one second in just over 11.5 days.
- **Parts Per Billion (ppb):** units of measure for concentration of a contaminant a part per billion corresponds to one second in 31.7 years.
- **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. **The ">" symbol:** a symbol which means greater than. **The "=" symbol:** a symbol which means equal to.
- **The "N/A" symbol:** An abbreviation which means not applicable.
- **Action Level (A.L.):** the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **BDL:** Below Detectable Limit
- **Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

## **Good Faith Effort**

**Waynoka Regional Water & Sewer District 1 Waynoka Drive**

**Lake Waynoka, OH 45171**

- 1) **Admin Building**
- 2) **Security Office**
- 3) **Rec Center**
- 4) **Restaurant**
- 5) **Lounge**
- 6) **Maintenance Building**

**Gregory T. England Primary ORC**

**Waynoka Regional Water & Sewer District**