Some or all of these definitions may be found in this report:

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 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 not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, $(\mu g/L)$. One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers. Nephelometric Turbidity Unit (NTU) - a measure of the

clarity of water. Turbidity ban (http:// a mediantoof in clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

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

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

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

Cadiz Municipal Water Co. Water Quality Report 2021

To request a paper copy call (270) 522-8244.



Water System ID: KY1110054 Utility Director: Craig Oakley 270-522-8244 coakley@cityofcadiz.com

CCR Contact: Perry Alexander 270-522-8144 cadizwaterplant@cityofcadiz.com

Mailing address: P.O. Box 1465 Cadiz, KY 42211

Meeting location and time: 63 Main Street, Cadiz First Tuesday each month at 6:00 PM This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

The source of raw water for the Cadiz Municipal Water System is surface water drawn from Lake Barkley through the Raw Water Transmission Main of Hopkinsville Water Environment Authority (HWEA). An analysis of the Lake Barkley raw water source for HWEA indicates that the contamination high potential impact includes underground and above ground storage facilities, hazardous materials transfer and storage, and landfills, all of which share the possibility of leakage, spill, or leaching of unwanted contaminants. Sources of moderate to low potential impact include those from agricultural operations, inactive rock quarries, and failing septic systems. The complete Source Water Assessment is available for review at the HWEA's main office located at 401 E. 9th Street, Hopkinsville. For more information call (270) 887-4147.

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 may 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, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides. (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems).

Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). 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. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 (800-426-4791).

Information 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. Your local public water system 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.



To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. **Copies of this report are available upon request by contacting our office during business hours**.

Regulated Contamina	nt Test R	esults	Cadiz Mun	icipal V	Vater	· Co.				
Contaminant		MCLG	Report Range		Date of		Likely Source of			
[code] (units)	MCL		Level	of Detection			Sample	Violation	Contamination	
Barium [1010] (ppm)	2	2	0.043	0.043	to	0.043	Feb-21	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride [1025] (ppm)	4	4	0.44	0.44	to	0.44	Feb-21	No	Water additive which promotes strong teeth	
Nitrate [1040] (ppm)	10	10	3.01	2.62	to	3.01	May-21	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	
Atrazine [2050] (ppb)	3	3	BDL	BDL	to	0.24	May-21	No	Runoff from herbicide used on row crops	
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	2.26 (lowest average)	1.33 (m	to onthly	3.94	2021	No	Naturally present in environmen	
*Monthly ratio is the % TOC re	emoval achie	eved to the % TO	DC removal requi	red. Annu	al avei	age must be	1.00 or greater	r for compliar	ice.	
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.42 (highest average)	0.56	to	1.98	2021	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	47 (high site average)	17 (range o	to of indiv	156 idual sites)	2021	No	Byproduct of drinking water disinfection	
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	56 (high site average)	24	to	143	2021	No	Byproduct of drinking water disinfection.	
Household Plumbing (Contami	nants				,				
Copper [1022] (ppm) Round 1 sites exceeding action level 0	AL= 1.3	1.3	0.0422 (90 th percentile)	0	to	0.105	Mar-21	No	Corrosion of household plumbin systems	
Copper [1022] (ppm) Round 2 sites exceeding action level 0	AL= 1.3	1.3	0.06 (90 th percentile)	0	to	0.176	Aug-21	No	Corrosion of household plumb systems	
Lead [1030] (ppb) Round 1 sites exceeding action level 1	AL= 15	0	0 (90 th percentile)	0	to	21	Mar-21	No	Corrosion of household plumbin systems	
Lead [1030] (ppb) Round 2 sites exceeding action level 0	AL= 15	0	0 (90 th percentile)	0	to	2	Aug-21	No	Corrosion of household plumbir systems	

Other Constituents							
Turbidity (NTU) TT	Allowable	Highest Single	Lowest	Violation			
* Representative samples	Levels	Measurement	Monthly %		Likely Source of Turbidity		
clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples	0.05	100	No	Soil runoff		

	Average	Rang	e of De	etection
Fluoride (added for dental health)	0.8	0.42	to	1.07
Sodium (EPA guidance level = 20 mg/L)	5.3	5.28	to	5.28

Secondary contaminants do not have a direct impact on the health of consumers. They are being included to provide additional information about the quality of the water.

Secondary Contaminant		Report	Rang	Date of Sample	
Secondary Contaminant	Maximum Allowable Level	Level	of Dete		
Chloride	250 mg/l	14.3	14.3 to	14.3	Feb-21
Copper	1.0 mg/l	0.0328	0.0328 to	0.0328	Feb-21
Corrosivity	Noncorrosive	-0.089	-0.089 to	-0.089	Feb-21
Fluoride	2.0 mg/l	0.39	0.39 to	0.39	Feb-21
Manganese	0.05 mg/l	0.005	0.005 to	0.005	Feb-21
pН	6.5 to 8.5	7.7	7.7 to	7.7	Feb-21
Sulfate	250 mg/l	7.1	7.1 to	7.1	Feb-21
Total Dissolved Solids	500 mg/l	193	193 to	193	Feb-21
Zinc	5 mg/l	0.01	0.01 to	0.01	Feb-21

This report will not be mailed unless requested. Additional copies will be available at City Hall during normal business hours. Please call our office if you have any questions.

Wooden Bucket Award

Presented To Cadiz Water and Sewer System

For Outstanding Service, Dedication, And Contribution To The Development And Distribution Of Water Supplies Throughout Rural Kentucky 2021 Each year, ten water and wastewater utilities are announced during Kentucky Rural Water Association's (KRWA) Member Appreciation Breakfast as Wooden Bucket finalists and honored for their outstanding service during the past year. From this list, one utility is singled out to receive Rural Water's highest honor, the prestigious Wooden Bucket Award. Cadiz Water and Sewer System was the 2021 Wooden Bucket Award winner.

