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, (μ 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 \$10,000,000,000. 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 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.

To request a paper copy call (270) 442-3337.



2018 Water Quality Report



Water System ID: KY0730454 Manager: April Reed-Warriner 270-442-3337 CCR Contact: April Reed-Warriner 270-442-3337

Mailing address: 8020 Ogden Landing Road West Paducah, KY 42086

Meeting location and time: 8020 Ogden Landing Road 3rd Monday each month at 5:00 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.

West McCracken Water District purchases water from Paducah Water. The sources of the water supply for Paducah Water are the Ohio and Tennessee Rivers. This is considered to be a surface water source. A final source water assessment for this system has been completed and is contained in the Source Water Assessment and Protection Plan Susceptibility Analysis and Protection Recommendations for McCracken County. The completed plan is available for inspection and can be obtained at the Purchase Area Development District office. A summary of the susceptibility analysis is as follows. An analysis of the susceptibility of PW's water supply to contamination indicates that this susceptibility is generally high. There are numerous petroleum storage facilities along the Ohio and Tennessee Rivers that provide fuel to land and river transportation. Numerous bridges cross the Ohio and Tennessee Rivers, as well as major tributaries such as the Clarks River and Island Creek. These bridges are of greater concern due to the possibility of hazardous materials infiltrating the water source near the intake due to traffic accidents, structural collapse of the bridge, or illegal dumping. River traffic is a concern that has become more prevalent in the past few years due in part to increased news coverage of accidents and collisions. Other potential areas of concern are Island Creek and local farming practices.

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.

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.

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.

	Allowable		Highest Single			Lowest	Violation			
]	Levels	Measurement]	Monthly %		Likely Source of Turbidity		
Turbidity (NTU) TT	No more th	an 1 NTU*								
* Representative samples	Less than 0.3 NTU in		0.14			100	No		Soil runoff	
of filtered water	95% of monthly samples									
Regulated Contaminant Test	Results		Paducah V	Water						
Contaminant			Report		Range Date		Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of Detection		Sample	Contamination			
Combined radium	5	0	2.3	2.3	to	2.3	Apr-14	No	Erosion of natural deposits	
(pCi/L)									Liosion of natural deposits	
Barium									D. III.	
[1010] (ppm)	2	2	0.018	0.018	to	0.018	Jan-18	No	Drilling wastes; metal refineries; erosion of natural deposits	
									-	
Fluoride									Water additive which promotes	
[1025] (ppm)	4	4	0.5	0.5	to	0.5	Jan-18	No	strong teeth	
Nitrate									Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	0.47	0.47	to	0.47	Jan-18	No	septic tanks, sewage; erosion of natural deposits	
Total Organic Carbon (ppm)			1.44							
(measured as ppm, but	TT*	N/A	(lowest	1.5	to	2.05	2018	No	Naturally present in environment.	
reported as a ratio)			average)	(me	onthly	ratios)				
*Monthly ratio is the % TOC	removal achi	eved to the % TO	OC removal re	equired. A	nnual	average must	be 1.00 or gre	ater for com	pliance.	
Chlorite	1	0.8	0.650	0.31	to	0.67	2014	No	Byproduct of drinking water	
(ppm)			(average)						disinfection.	
Chlorine dioxide (ppb)	MRDL	MRDLG	171			171	2014	No	Water additive used to control microbes.	
	= 800	= 800	171	0	to	171	2014	INO	meroes.	
			Average			Detection				
Sodium (EPA guidance level = 20 mg/L)			12.7	12.7	to	12.7]			

Paducah UCMR4

Unregulated Contaminants (UCMR 4)	average	1	range ((ppb)	date
Manganese	7.25	2.08	to	17.1	2018
alpha-hexachlorocyclohexane	0.017	0	to	0.067	2018
total permethrin (cis- & trans-)	0.01	0	to	0.0415	2018
HAA5	31.769	0.59	to	50.4	2018
HAA6Br	9.019	1.69	to	12.9	2018
HAA9	40.263	11	to	53.8	2018

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

Regulated Contaminant Test Results West McCracken Water District										
Contaminant			Report	Range		Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection			Sample		Contamination	
Copper [1022] (ppm)	AL=		0.073						Corrosion of household plumbing systems	
sites exceeding action level	1.3	1.3	(90 th	0	to	0.1	Aug-16	No		
0			percentile)							
Lead [1030] (ppb)	AL=		0						Commercian of bound and a bound in a	
sites exceeding action level	15	0	(90 th	0	to	31	Aug-16	No	Corrosion of household plumbing systems	
1			percentile)]-,	
Chlorine	MRDL	MRDLG	1.23						W	
(ppm)	= 4	= 4	(highest	0.58	to	2.06	2018	No	Water additive used to control microbes.	
			average)							
HAA (ppb) (Stage 2)			35						December 4 of Linking and a	
[Haloacetic acids]	60	N/A	(high site	15	to	39	2018	No	Byproduct of drinking water disinfection	
			average)	(range	of indiv	idual sites)				
TTHM (ppb) (Stage 2)			68						D 1 (61:1:	
[total trihalomethanes]	80	N/A	(high site	11	to	100	2018	No	Byproduct of drinking water disinfection.	
			average)	(range	of indiv	idual sites)				