HARRISON COUNTY PWSD 2

Public Water System ID Number: MO1024242 2019 Annual Water Quality Report

(Consumer Confidence Report)

This report is intended to provide you with important information about your drinking water and the efforts made to provide safe drinking water.

Attencion! Este informe contiene información muy importante. Tradúscalo o prequntele a alguien que lo entienda bien. [Translated: This report contains very important information. Translate or ask someone who understands. What is the source of my water? The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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.

Our water comes from the following source(s):

Source Name	Туре		
WELL # 4	GROUND WATER		
WELL # 5 REPLACEMENT WELL	GROUND WATER		
WELL # 5-OBSERVATION ONLY	GROUND WATER		
WELL # 6	GROUND WATER		
WELL #7	GROUND WATER		
WELL #8	GROUND WATER		
WELL #9	GROUND WATER		
WELL #1	GROUND WATER		
WELL#2	GROUND WATER		
WELL #3	GROUND WATER		

Source Water Assessment

The Department of Natural Resources conducted a source water assessment to determine the susceptibility of our water source to potential contaminants. This process involved the establishment of source water area delineations for each well or surface water intake and a contaminant inventory was performed within those delineated areas to assess potential threats to each source. Assessment maps and summary information is available on the internet at http://drinkingwater.missouri.edu/. To access the maps for your water system you need the State-assigned identification code, at the top of this reportwhich is printed at the top of this report. The Source Water Inventory Project maps and information sheets provide a foundation upon which a more comprehensive source water protection plan can be developed.

Why are there contaminants in my water?

Drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate water poses a health risk. To obtain more information about contaminants and potential health effects call the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). Contaminants that may be present in source water include:

A. <u>Microbial contaminants</u>, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife

- B. <u>Inorganic contaminants</u>, such as salts and metals, which can be naturallyoccurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- C. <u>Pesticides and herbicides</u>, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- D. <u>Organic chemical contaminants</u>, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- E. <u>Radioactive contaminants</u>, 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, the Department of Natural Resources prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water, which must provide the same public health protection.

Is our water system meeting other rules that govern our operations? The Missouri Department of Natural Resources regulates our water system and requires testing of our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO1024242 for the purposes of tracking our test results. Last year, we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards is explained later in this report.

How might I become actively involved?

If you would like to observe the decision-making process that affect drinking water quality or if you have any further questions about your drinking water report, please call us at 660-425-7414 to inquire about meetings or contacts.

Do I need to take any special precautions? Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as those with cancer undergoing chemotherapy, 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).

Terms and Abbreviations

Population: 3740. This is the equivalent residential population served including non-bill paying customers.

90% are below this level.

AL: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

HAA5: Haloacetic Acids (mono-, di- and tri-chloracetic acid, and mono- and dibromoacetic acid) as a group.

LRAA: Locational Running Annual Average, or the locational average of sample analytical results for samples taken during the previous four calendar quarters.

MCLG: Maximum Contaminant Level Goal, or level of a contaminant in drinking water below which there is no known or expected risk to health. This allow for a margin of safety.

MCL: Maximum Contaminant Level, or the highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available

treatment technology.

n/a: not applicable.

nd: not detectable at testing limits.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Range of Results: Shows the lowest and highest levels found during a testing period, if only one sample was taken, this number equals the Highest Test Result or Highest Value. SMCL: Secondary Maximum Contaminant Level, or the secondary standards that are non-enforceable guidelines for contaminants and may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply TT: Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group.



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Contaminants Report

HARRISON COUNTY PWSD 2 will provide a printed hard copy of the CCR upon request. To request a copy of this report to be mailed, please call us at 660-425-7414. The CCR can also be found on the internet at www.dnr.mo.gov/ccr/MO1024242.pdf.

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. Records with a sample year more than one year old are still considered representative. No data older than 5 years need be included. If more than one sample is collected during the monitoring period, the Range of Sampled Results will show the lowest and highest tested results. The Highest Test Result, Highest LRAA, or Highest Value must be below the maximum contaminant level (MCL) or the contaminant has exceeded the level of health based standards and a violation is issued to the water system.

Regulated Contaminants

Regulated Contaminants	Collection Date	Highest Test Result	Range of Sample Result(s (low – hig	d ;)	Unit	MCL	MCLG	Typical Source				
BARIUM	5/17/2017	0.173	0.173		ppm 2		2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits				
FLUORIDE	5/17/2017	0.43	0.43	0.43 ppm 4		4	Natu	atural deposits; Water additive which promotes strong te				
NITRATE- NITRITE	5/22/2019	0.4	0.4		ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, se Erosion of natural deposits				
Disinfection Byproducts	Sample Point	Monitori Period	-	St	Range of Sampleo Result(s) (low – high)		Unit	MCL	M	CLG	Typical Source	
(HAA5)	DBPDUAL-01	2019	34		29 - 38.5		ppb	60		0	Byproduct of drinking water disinfection	
(HAA5)	DBPDUAL-02	2019	40		33 - 47.5		ppb	60		0	Byproduct of drinking water disinfection	
TTHM	DBPDUAL-01	2019	2019 64		49.2 - 71.3		ppb	80		0	Byproduct of drinking water disinfection	
TTHM	DBPDUAL-02	2019	9 48		37.2 - 70.5		ppb	80		0	Byproduct of drinking water disinfection	
Lead and Copper	Date	90th Percentile: 90% of your water utility levels were less than			Range of Sampled Results (low – high)		Unit	AL Sites Over AL			Typical Source	
COPPER	2017 - 2019		0.543		0.0271 - 0.589		ppm	1.3	0		Corrosion of household plumbing systems	
LEAD	2017 - 2019		2.39		0 - 4.64		ppb	15	5 0		Corrosion of household plumbing systems	
Microbiological Result						R	MCL		MCLG	Typical Source		
COLIFORM (TCR) In the month of August, 1 sample positive			e(s) return	ed as	2,000	atment que Trig	ent 0 Trigger		Naturally present in the environment			

Violations and Health Effects Information

During the 2019 calendar year, we had the below	noted violation(s) of drinking water regulations.	Type				
Compliance Period	Analyte	Туре				
7/1/2019 - 7/9/2019	CONSUMER CONFIDENCE RULE	CCR ADEQUACY/AVAILABILITY/CONTENT				

Special Lead and Copper Notice: 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. HARRISON COUNTY PWSD 2 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 (800-426-4791) or at http://water.epa.gov/drink/info/lead/index.cfm.

You can also find sample results for all contaminants from both past and present compliance monitoring online at the Missouri DNR Drinking Water Watch website http://dnr.mo.gov/DWW/indexSearchDNR.jsp. To find Lead and Copper results for your system, type your water system name in the box titled Water System Name and select *Find Water Systems* at the bottom of the page. The new screen will show you the water system name and number, select and click the Water System Number. At the top of the next page, under the *Help* column find, *Other Chemical Results by Analyte*, select and click on it. Scroll down alphabetically to Lead and click the blue Analyte Code (1030). The Lead and Copper locations will be displayed under the heading *Sample Comments*. Scroll to find your location and click on the *Sample No*. for the results. If your house was selected by the water system and you assisted in taking a Lead and Copper sample from your home but cannot find your location in the list, please contact HARRISON COUNTY PWSD 2 for your results.

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Optional Monitoring (not required by EPA) Optional Contaminants

Monitoring is not required for optional contaminants.

Secondary Contaminants	Collection Date	Your Water System Highest Sampled Result	Range of Sampled Result(s) (low - high)	Unit	SMCL
ALKALINITY, CACO3 STABILITY	5/17/2017	376	376	MG/L	
CALCIUM	5/17/2017	60.5	60.5	MG/L	A-1-12-2-11-11
CHLORIDE	5/17/2017	46.9	46.9	MG/L	250
HARDNESS, CARBONATE	5/17/2017	231	231	MG/L	
IRON	5/17/2017	0.0173	0.0173	MG/L	0.3
MAGNESIUM	5/17/2017	19.3	19.3	MG/L	
PH	5/17/2017	8.02	8.02	PH	8.5
POTASSIUM	5/17/2017	4.07	4.07	MG/L	
SODIUM	5/17/2017	135	135	MG/L	
SULFATE	5/17/2017	90.9	90.9	MG/L	250
TDS	5/17/2017	576	576	MG/L	500
ZINC	5/17/2017	0.00101	0.00101	MG/L	5

Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply.