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 \$10,000,000.000.

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.

Shelbyville Municipal Water & Sewer Commission Water Quality Report 2022

Water System ID: KY1060394 General Manager: Tom Doyle 502-633-2840 CCR Contact: Steve Searcy

Mailing address: PO Box 608 Shelbyville, KY 40066

Public meeting location and time: Water Office – 1059 Washington Street, Shelbyville, KY 3rd Monday each month at 6:30 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.

To request a paper copy of this report, call our office at (502) 633-2840.

Shelbyville Municipal Water & Sewer Commission utilizes surface water from Guist Creek Lake for your source of drinking water. Guist Creek Lake has a 29 square mile watershed which consists predominately of agricultural acreage, with some residential units around the lake. It is important that the community helps to protect this valuable water source located about 2.5 miles east of Shelbyville and north of US 60.

Activities and uses upstream of Guist Creek Lake can pose potential risks to your drinking water. Under certain circumstances, contaminants could be released that would pose challenges to water treatment, or even get into your drinking water. A source water assessment and protection plan has been completed for our watershed and is available for review in our offices during normal business hours. Some of the potential sources of contamination in our watershed consist of: four underground petroleum sites and one above-ground storage tank; two bridges; one inactive landfill and one site that uses hazardous materials (Bell South). These sources are rated as high in susceptibility to contamination because of their contaminant type, proximity to Guist Creek Lake, and high chance of release. Sources that are considered a medium risk for contamination of your water include major roads and commercial activities.

Water Purchased From Louisville

(Serves all customers with exception of Shelbyville area.) Louisville Water operates two surface water treatment plants with intakes on the Ohio River. A Source Water Assessment and Protection Plan for Jefferson County identified spills of hazardous materials on the Ohio River and permitted discharges of sanitary sewers as the highest contamination risks. In Jefferson County, land use in the protection area is primarily zoned for residential and commercial use, with only a few industrial sites. In Oldham and Trimble Counties (areas bordering the Ohio River to the north of our intakes) land use is primarily zoned for residential and agricultural use. Therefore source water contamination risks are relatively low. To view the entire Source Water Assessment and Protection Plan contact Keith Coombs at 502-569-3682. Louisville Water also draws water through the aquifer with riverbank filtration wells at the B.E. Pavne Plant. The Kentucky Division of Water approved LWC's Wellhead Protection Plan (WHPP) in 2014. The goal is to safeguard groundwater feeding into the wells from contamination within the Wellhead Protection Area (WHPA) in Prospect. Louisville Water continually updates the plan. To view the entire Wellhead Protection Plan contact Kay Ball at 502-569-3688

The Commission regularly monitors for many of the constituents in your drinking water according to Federal and State laws. The water quality table in this report lists all detected constituents tested between January 1, 2018 and December 31, 2018. This report does not contain test results for contaminants that were not detected.

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 Water Drinking Hotline or http://www.epa.gov/safewater/lead.

this report are available upon	s reduced m to vary sign request by c	onitoring requir ificantly from ye ontacting our of	ements for certair ear to year. Some	n contamin of the data	ants to in thi	o less often tl	han once per y	ear because	*
Regulated Contamina	nt Test R	esults	Shelbyville	Water	& Se	wer Com	mission		
Contaminant			Report	Range of Detection			Date of		Likely Source of
[code] (units)	MCL	MCLG	Level				Sample	Violation	Contamination
Inorganic Contaminar	nts								
Fluoride									W. (
[1025] (ppm)	4	4	1.10	1.1	to	1.1	May-22	No	Water additive which promotes strong teeth
Disinfectants/Disinfec	tion Byp	roducts and	Precursors					,	
Total Organic Carbon (ppm)			1.83						
(measured as ppm, but	TT*	N/A	(lowest	1.26	to	2.61	2022	No	Naturally present in environment.
reported as a ratio)			average)	(mo	nthly	ratios)			
*Monthly ratio is the % TOC r	emoval achi	eved to the % T	OC removal requi	red. Annu	al aver	age must be	1.00 or greater	for complian	ice.
Chloramines	MRDL	MRDLG	2.49				2022 No		Water additive used to control microbes.
(ppm)	= 4	=4 =4 (hig	(highest	0.89	to	3.48		No	
			average)						meroves.
HAA (ppb) (Stage 2)			32						
[Haloacetic acids]	60	N/A	(high site	7	to 45	45	2022	No	Byproduct of drinking water disinfection
			average)	(range o	f indiv	idual sites)			
TTHM (ppb) (Stage 2)			41						
[total trihalomethanes]	80	N/A	(high site	12.4	to	41	2022	No	Byproduct of drinking water disinfection.
			average)	(range o	f indiv	idual sites)			
Household Plumbing	Contami	nants	• • •			í.		•	•
Copper [1022] (ppm) Round 1	AL=		0.391						
sites exceeding action level	1.3	1.3	(90 th	0.007	to	0.843	Aug-22	No	Corrosion of household plumbing systems
0			percentile)				-		systems
Lead [1030] (ppb) Round 1	AL=		2						a . A
sites exceeding action level	15	0	(90 th	0	to	4	Aug-22	No	Corrosion of household plumbing systems
0			percentile)				-		o jo como
Other Constituents	·								
Turbidity (NTU) TT	Allowable		Highest Single			Lowest	west Violation		
* Representative samples	Levels		Measurement		N	fonthly %		Likely Source of Turbidity	
Turbidity is a measure of the	No more than 1 NTU* Less than 0.3 NTU in		0.17			100	No	Soil runoff	
clarity of the water and not a contaminant.									
		thly samples							

Regulated Contamina	nt Test R	esults L	ouisville	Water (Com	oany			
Contaminant			Report	Report Range Level of Detection		Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level			Sample	Violation	Contamination	
Inorganic Contaminar	nts								
Barium									
[1010] (ppm)	2	2	0.02	0.02	to	0.02	2022	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride									
[1025] (ppm)	4	4	0.64	0.64	to	0.64	2022	No	Water additive which promotes strong teeth
Nitrate									Fertilizer runoff; leaching from
[1040] (ppm)	10	10	0.99	0.77	to	0.99	2022	No	septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfec	tion Byp	roducts and	Precurso	rs				,	•
Total Organic Carbon (ppm)			1.27						
(measured as ppm, but	TT*	N/A	(lowest	0.81	to	2.01	2022	No	Naturally present in environment.
reported as a ratio)			average)	(ma	onthly	ratios)			
*Monthly ratio is the % TOC r	emoval achi	eved to the % TO) C removal re	equired. A	nnual a	werage must	be 1.00 or gre	ater for com	pliance.
Other Constituents									
Turbidity (NTU) TT	Allowable		Highest Single			Lowest	Violation		
* Representative samples	Levels		Measurement		N	Ionthly %		Likely Source of Turbidity	
Turbidity is a measure of the	No more th	an 1 NTU*							
clarity of the water and not a contaminant.	Less than 0.3 NTU in		0.08			100	No	Soil runoff	
	95% of mor	thly samples							

