## City of Lynch 2022 Water Quality Report

Manager:	Justin Wren	CCR Contact: Chris O'bradovich	PWSID:	KY0480262
Address:	PO Box 667 Lynch, KY 40855		Phone:	606-848-2282
Meetings:	City Hall / 2nd Tuesday, Every M			

Your source water is a combination of surface water and groundwater. The Lynch Water Treatment Plant processes ground water from an abandoned coal mine at Portal 30 and surface water from Looney Creek. An assessment of the Lynch water supply indicates that it is highly susceptible to contamination. The major sources of potential contamination are from: mining, logging, oil/gas well production, and highway runoff. Activities and land within the watershed 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. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. In the event that you witness activities of concern, please contact your water operator immediately. The complete source water assessment plan can be reviewed at Lynch City Hall.

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. 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 (800-426-4791).

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.

## 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, (µg/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.

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 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

expected to vary significantly f upon request by contacting o				, 0						
Regulated Contaminan			City of Lyn	ch						
Contaminant			Report Range		Date of		Likely Source of			
[code] (units)	MCL	MCLG	Level	•		ection	Sample Violatio			
Inorganic Contaminan	ts							1		
Barium										
[1010] (ppm)	2	2	0.058	0.058	to	0.058	Apr-22	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride									····	
[1025] (ppm)	4	4	0.20	0.2	to	0.2	Apr-22	No	Water additive which promotes strong teeth	
Nitrate									Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	0.51	0.51	to	0.51	Mar-22	No		
Disinfectants/Disinfect	ion Bypro	ducts and P	recursors						!	
Total Organic Carbon (ppm)			1.01							
(measured as ppm, but	TT*	N/A	(lowest	1.00	to	1.82	2022	No	Naturally present in environment	
reported as a ratio)			average)	(m	onthl	y ratios)				
*Monthly ratio is the % TOC r	emoval achie	ved to the % TC	C removal requir	ed. Annua	al ave	rage must be 1	.00 or greater f	or compliant	ce.	
Chlorine	MRDL	MRDLG	0.99			-				
(ppm)	= 4	= 4	(highest average)	0.53	to	1.56	2022	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2)			26							
[Haloacetic acids]	60	N/A	(high site	7	to	27	2022	No	Byproduct of drinking water	
			average)	(range o	of ind	ividual sites)	disinfecti		disinfection	
TTHM (ppb) (Stage 2)			27							
[total trihalomethanes]	80	N/A	(high site	10	to	29	2022	No	Byproduct of drinking water	
			average)	(range of individual sites)				disinfection.		
Household Plumbing C	ontamina	nts								
Copper [1022] (ppm) Round 1	AL =		0.059						Corrosion of household plumbin	
sites exceeding action level	1.3	1.3	(90 <sup>th</sup>	0.01	to	0.083	Sep-21	No	systems	
0			percentile)						,	
Lead [1030] (ppb) Round 1	AL =		1						Corrosion of household plumbin	
sites exceeding action level	15	0	(90 <sup>th</sup>	0	to	2	Sep-21	No	systems	
0			percentile)						·	
Other Constituents										
Turbidity (NTU) TT Allowable		Highest Single		Lowest	Violation					
* Representative samples Levels		Measurement		Monthly %		Likely Source of Turbidity				
Turbidity is a measure of the No more than 1 NTU*										
clarity of the water and not a contaminant.	Less than 0.3 NTU in		0.32		99	No	Soil runoff			
95% of monthly samples										
			Average	`	ge of	Detection				
Sodium (EPA guidance level = 20 mg/L)			88.2	88.2	to	88.2				

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	Maximum Allowable	Report	Range			Date of	
Secondary Containmant	Level	Level	0	Sample			
Aluminum	0.05 to 0.2 mg/l	0.03	0.03	to	0.03	Mar-22	
Chloride	250 mg/l	8.7	8.7	to	8.7	Mar-22	
Corrosivity	Noncorrosive	-1.02	-1.02	to	-1.02	Mar-22	
Fluoride	2.0 mg/l	0.21	0.21	to	0.21	Mar-22	
Manganese	0.05 mg/l	0.002	0.002	to	0.002	Mar-22	
Sulfate	250 mg/l	45.4	45.4	to	45.4	Mar-22	
Total Dissolved Solids	500 mg/l	299	299	to	299	Mar-22	
Zinc	5 mg/l	0.02	0.02	to	0.02	Mar-22	

## Notice by City of Lynch - System ID#: KY0480262

Violation Numbers: 2023-9610059 & 2023-9610058

The EPA requires that public water systems receive sanitary surveys to make sure that the system can provide adequate, safe drinking water. Sanitary surveys are carried out to evaluate the capability of a drinking water system to deliver an adequate quality and quantity of safe drinking water consistently and reliably to the consumer, and the system's compliance with federal drinking water regulations. A sanitary survey was conducted on our water system with significant and non-significant deficiencies were determined. We failed to respond to the sanitary survey's significant and non-significant deficiencies within the required time period.

Our response was due on 10/15/2022 for the significant deficiencies that were found and 11/29/2022 for the non-significant deficiencies that were found. There is nothing you need to do.

For more information, please contact Chris Obradovich at 606-848-2282.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.