Annual Drinking Water Quality Report

EUREKA

IL2030200

Annual Water Quality Report for the period of January 1 to December 31, 2020 $\,$

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

The source of drinking water used by EUREKA is Ground Water

For more information regarding this report contact:

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Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source of Drinking Water

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 can 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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must 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 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 brinking 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. We 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 mrinking water flotline or at hother. Nawwene conference or at heater, where the steel here.

Source Water Name		Type of Water	Report Status	Status Location
WELL 5 (31414)	LOCALLY WELL 1	GW		
WELL 6 (31415)	LOCALLY WELL2	GW		The state of the s

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We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at 1991/467-2700. To view a summary version of the completed Source Water Assessments, including: Importance of source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

at the entry point to the distribution system, and the available hydrogeologic data for the wells. In anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that Eureka's water supply is not vulnerable to viral contamination. This determination is based upon the evaluation of the following criteria during the Vulnerability Waiver Process: the wells are properly constructed with sound integrity and proper site conditions, there is a hydrogeologic barrier that restricts pathogen movement, all potential routes and sanitary defects have been mitigated such that the source water is adequately protected, monitoring data did not indicate a history of disease outbreak, and the sanitary survey of the water supply did not indicate a viral contamination threat. However, having stated this, the U.S. EPA is proposing to require States to identify systems in karst, gravel, and fractured bedrock aguifer systems as sensitive. Water systems utilizing these aquifer types would be required to perform routine source water monitoring. Because the facility's wells are constructed in a confined aquifer, which should provide an adequate degree of protection to prevent the movement of pathogens into the wells, well hydraulics were not considered to be a significant factor in the vulnerability determination. Source of Water: EUREKATo determine Eureka's susceptibility to groundwater contamination, a Well Site Survey, published in 1990 by the Illinois EPA, and the Source Water Protection Program completed by the City of Eureka, were reviewed. Based on the information contained in this document, there are 5 potential sources of groundwater contamination that could pose a hazard to the groundwater pumped by the Eureka community water supply wells. These include 3 above ground petroleum storages, one below ground petroleum storage, and one unidentified waste site. The Illinois EPA has determined that Eureka's wells #5 and #6 are not susceptible to contamination. This determination is based on a number of criteria including: monitoring conducted at the wells; monitoring conducted

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin

of.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow

Corrosion of household plumbing systems; Erosion of natural deposits.	N	qđđ	0	2.2	1.5	0	2020	Lead
Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	z	ppm	N	0.87	 ω	1.3	2020	Copper
Likely Source of Contamination	Violation	Units	# Sites Over AL	90th Percentile	Action Level (AL)	MCLG	Date Sampled	Lead and Copper

Water Quality Test Results

Avg:

Level 1 Assessment:

Level 2 Assessment:

Definitions: The following tables contain scientific terms and measures, some of which may require explanation

Regulatory compliance with some MCIs are based on running annual average of monthly samples.

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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 or 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 or The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDIGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

not applicable.

millirems per year (a measure of radiation absorbed by the body)

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

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na:

mrem:

MRDL:

Maximum Contaminant Level or MCL:

: mqq

Treatment Technique or TT:

milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

A required process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants

Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Radioactive Contaminants
Erosion from naturally occuring deposits. Used in water softener regeneration.	z	mad			87 - 87	87	2020	Sodium
Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.	ĸ	ਰੰਕਰ	50	50	3.9 - 3.9	3.9	2020	Selenium
Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	N	wđđ	10	10	0.29 - 0.29	0.29	2020	Nitrate [measured as Nitrogen]
This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	Ħ	qqq	150	150	1.2 - 1.2	1.2	2020	Manganese
This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	и	ppm	1.0		0.036 - 0.036	0.036	2020	Iron
Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	N	ppm	4.0	4	0.631 - 0.631	0.631	2020	Fluoride
Discharge from steel and pulp mills; Erosion of natural deposits.	N	ppb	100	100	5.8 - 5.8	Ф	2020	Chromium
Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	z	ppm	2	2	0.0092 - 0.0092	0.0092	2020	Barium
Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	z	qđđ	10	0	2.7 - 2.7	2.7	2020	Arsenic
Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Inorganic Contaminants
By-product of drinking water disinfection.	и	ಧರೆಡೆ	80	No goal for the total	7.6 - 7.6	œ	2020	Total Trihalomethanes (TTHM)
By-product of drinking water disinfection.	N	ppb	60	No goal for the total	2.04 - 2.04	22	2020	Haloacetic Acids (HAA5)
Water additive used to control microbes.	Z,	uđď	MRDL = 4	MRDIG = 4	1.9 - 2.8	2.6	12/31/2020	Chlorine
Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Disinfectants and Disinfection By-Products
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Gross alpha excluding 01/14/2015 0.234 0.234 - 0.234 0 15 pCi/L N Erosion of natural deposits radon and uranium

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