Annual Drinking Water Quality Report

KARNAK

IL1530050

Annual Water Quality Report for the period of January 1 to December 31, 2023

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 KARNAK is Purchased Ground Water

For more information regarding this report contact

Phone (018) 534-1809

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

V Board meetings are held eury 3rd tuesday of the month at 7 pm at the Village Hell.

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 nolude:

- Microbial contaminants, such as viruses and bacteria, which may dome 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 BPAs 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 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).

drinking or cooking. If you are concerned about serious health problems, especially for pregnant If present, elevated levels of lead can cause Drinking Water Hotline or at minimize exposure is available from the Safe water, testing methods, and steps you can take water tested. Information on lead in drinking lead in your water, you may wish to have your sitting for several hours, you can minimize the plumbing components. When your water has been We cannot control the variety of materials used associated with service lines and home plumbing. is primarily from materials and components women and young children. Lead in drinking water for 30 seconds to 2 minutes before using water for potential for lead exposure by flushing your tap in

CC04 - KARNAK MASTER METER

Type of Water

GW

Report Status

Status Location

INTERSECTION OF FRANKLIN AND ROUTE 169

Source Water Assessment

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 409.5344899. 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.

Source of Water: SOUTHWATER INCTO determine Southwater, Inc.'s susceptibility to contamination, a well site survey was recently conducted by the Illinois Rural Water Association in December 2002. Based upon a review of this information, there are 2 potential sources of groundwater contamination that could pose a hazard to groundwater utilized by Southwater, Inc.'s community water supply wells. These potential sources include 2 above ground fuel storage tanks. In addition, information provided by the Leaking Underground Storage Tank and Remedial Project Management Sections of the Illinois EPA indicated additional sites with on-going remediation which may be of concern. Based upon this information, the Illinois EPA has determined that the Southwater, Inc. community water supply's source water is susceptible to contamination. As such, the Illinois EPA has provided 5-year recharge area calculations for the wells land use within the recharge area of the wells was analyzed as part of this susceptibility determination. This land use includes agricultural propert flooderies in floodplain. This land use includes agricultural properties and

Water Quality Test Results

Avg: Definitions: Regulatory compliance with some MCLs are based on running annual average of monthly samples The following tables contain scientific terms and measures, some of which may require explanation

Maximum Contaminant Level or MCL:

Level 2 Assessment:

Level 1 Assessment:

Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level or

goal or MRDLG: Maximum residual disinfectant level

mrem:

: वर्वेत

Treatment Technique or TT:

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.

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.

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.

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. 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.

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

Disinfectants and	Collection	Highest Level	Highest Level Range of Levels	MCTG	MCL	Units	Violation	Violation Likely Source of Contamination
Disinfection By- Products	Date	Detected	Detected					
Chlorine	2023	1.4	1.1 + 2	MRDLG = 4	MRDL = 4	wdđ	×	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	80	7.8 - 7.8	No goal for the total	60	वंतेलं	N	By-product of drinking water disinfection.
Total Tribalomethanes	2023	52	51.8 - 51.8	No goal for the total	80	ąđã	×	By-product of drinking water disinfection.

Regulated Contaminants INC

Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Unlis	Violation	Likely Source of Contamination
Chlorine	2023	1.9	1.7 - 2.4	MRDLG = 4	MRDL = 4	wāā	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	w	tur of tur	No goal for the total	50	מממ	×	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	27	27 - 27	No goal for the total	80	מְמָמִי	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	WOLG	MCL	Units	Violation	Likely Source of Contamination
Fluoride	2023	0.5	0.5 - 0.5	als.	4.0	māā	Z	Erosion of natural deposits, Water additive which promotes strong teeth, Discharge from Eertilizer and aluminum factories.
Sodium	2023	20200	20200 - 20200			ਕੁਕੌਂਕੋ	N	Erosion from naturally occuring deposits. Used in water softener regeneration.
Radioactive Contaminants	Collection	Highest Level Detected	Range of Levels Detected	MCLG	WCL	Unics	Violation	Likely Source of Contamination
Combined Radium 226/228	09/25/2019	1.07	1.07 - 1.07	0	ហ	pci/L	И	Erosion of natural deposits.
Gross alpha excluding radon and uranium	09/25/2019	2	N (,	0	15	pCi/L	N	Erosion of natural deposits.
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCTG	MCF	Unics	Violation	Violation Likely Source of Contamination
Di (2-ethylhexyl) phthalate	2023	2.3	0 - 2.3	0	o,	qđđ	Z	Discharge from rubber and chemical factories.