

Consumer Confidence Report

Annual Drinking Water Quality Report

MURPHYSBORO

IL0770500

Annual Water Quality Report for the period of January 1 to December 31, 2022

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 MURPHYSBORO is Purchased Surface Water

For more information regarding this report contact:

Name

TIM LEE

Phone

618-684-2961

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo o 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 EPA's 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).

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 minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Source Water Information

Source Water Name	Type of Water	Report Status	Location
CC01 - MURPHYSBORO MASTER METER	FF IL0775100 TP02	Current	AT 1.0 MG GRD STORAGE TANK, 0.1 miles north of the intersection of Illinois Ave. & Stave Mill Rd.
CC03 - MURPHYSBORO MASTER METER	FF IL0775100 TP02	Current	Northeast of the intersection of 16th Street and High School Street, at the High School
CC04 - MURPHYSBORO MASTER METER	FF IL0775100 TP02	Current	Southeast of the intersection of 7th Street and Suburban Drive
CC05 - MURPHYSBORO MASTER METER	FF IL0775100 TP02	Current	North of the intersection of Highway 13 and South Hospital Drive, at St. Joseph's Hospital
CC07 - MURPHYSBORO MASTER METER	FF IL0775100 TP02	Current	Located at the intersection of Savanna Drive and Cedar Drive

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 ~~618-654-3461~~. 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: KINKAID AREA WATER SYSTEM Illinois EPA considers all surface water sources of public water supply to susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion.

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/28/2020	1.3	1.3	0.1	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	08/28/2020	0	15	2.1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

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

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Level 1 Assessment: 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.

Level 2 Assessment: 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.

Maximum Contaminant Level or 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 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 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 or 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.

na: not applicable.

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

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

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

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloramines	12/31/2022	2.7	2.2 - 3	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2022	29	9.07 - 39.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	37	4.68 - 54.3	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Consumer Confidence Report

Annual Drinking Water Quality Report

KINCAID AREA WATER SYSTEM

IK0775100

Annual Water Quality Report for the period of January 1 to December 31, 2022

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The source of drinking water used by
KINCAID AREA WATER SYSTEM is Surface Water

For more information regarding this report contact:

JT Jenkins

Phone 618-687-2951

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Source of Drinking Water
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Source Water Information

Source Water Name
INTRAKE (70620) KINRAID LAKE

Type of Water
SW
Report Status
Current
Location
Jackson County

Source Water Assessment

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2022 Regulated Contaminants Detected

Water Quality Test Results

Definitions:

Avg:

Level 1 Assessment:

Level 2 Assessment:

Maximum Contaminant Level or MCL:

Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level or MRDL:

Maximum residual disinfectant level goal or MRDLG:

na:

urem:

ppb:

ppm:

Treatment Technique or TT:

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

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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 a 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. MRDLs 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 regulated process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants

Disinfectants and Disinfection By-Products	Chloramines	Chlorite	Halacetic Acids (HAA5)	Total Trihalomethanes (TTHM)	Inorganic Contaminants	Fluoride	Nitrate [measured as Nitrogen]	Sodium	Synthetic organic contaminants including pesticides and herbicides	Atrazine	Simazine
Collection Date	Collection Date	Collection Date	Collection Date	Collection Date	Collection Date	Collection Date	Collection Date	Collection Date	Collection Date	Collection Date	Collection Date
Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected	Highest Level Detected
Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected	Range of Levels Detected
MCLG	MCLG	MCLG	MCLG	MCLG	MCLG	MCLG	MCLG	MCLG	MCLG	MCLG	MCLG
MCL	MCL	MCL	MCL	MCL	MCL	MCL	MCL	MCL	MCL	MCL	MCL
Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units
Violation	Violation	Violation	Violation	Violation	Violation	Violation	Violation	Violation	Violation	Violation	Violation
Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination	Likely Source of Contamination
	3.3	0.75	22	33	0.4	0.07	11	0.3	0.08	3	4
	3 - 3.5	0.44 - 0.75	21.8 - 21.8	32.5 - 32.5	0.27 - 0.6	0.07 - 0.07	11.2 - 11.2	0.2 - 0.3	0 - 0.08	3	4
	MNDLG = 4	0.8	No goal for the total	No goal for the total	4	10				3	4
	MNDL = 4	1	60	80	4.0	10				3	4
	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppb	ppb	ppb	ppb
	N	N	N	N	N	N	N	N	N	N	N
	Water additive used to control microbes.	By-product of drinking water disinfection.	By-product of drinking water disinfection.	By-product of drinking water disinfection.	Likely Source of Contamination	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Erosion from naturally occurring deposits. Used in water softener regeneration.	Likely Source of Contamination	Runoff from herbicide used on row crops.	Herbicide runoff.

Turbidity

Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
	0.3	3	
	0.08	4	

MAXT

Highest single measurement	1 NTU	0.09 NTU	N	Soil runoff.
Lowest monthly & meeting limit	0.3 NTU	100%	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.