

CITY OF LITCHFIELD WATER TREATMENT FACILITY 2023 WATER QUALITY REPORT

OUR COMMITMENT TO YOU:

Employees work around the clock, seven days a week, 365 days a year, to ensure the water delivered to you meets or surpasses EPA standards and is safe to use and consume. This report is a summary of the quality of water provided to our customers in 2023 and meets federal regulations for our facility's Consumer Confidence Report. Included in this report is information about where your water comes from, what it contains, and how it compares to standards set forth by regulatory agencies.

This year, as in years past, your drinking water met all USEPA, ILLINOIS EPA, and Illinois Dept. of Public Health drinking water health standards. Our system vigilantly safeguards its surface water supply.

If you have any questions about this report or concerning your water system, please contact Ray Weller, Water Superintendent at 324-2250 Monday through Friday from 7 AM until 3 PM. We want our valued customers to be informed about their water quality. If you would like to know more, you are welcome to attend any of our regularly scheduled City Council meetings held on the first and third Thursday of every month at 6:30 PM. in the Council Chambers located within the City Hall building at 120 East Ryder Street in Litchfield.

Our community uses surface water supplied by two man-made reservoirs or lakes. Our primary source is Lake Lou Yaeger and our secondary source is the Litchfield Reservoir, both located in Litchfield.

Some people may be more vulnerable to levels of 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 for infections. People experiencing some types of these symptoms should seek advice about drinking water from health care providers. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Drinking water, including bottled water, can reasonably be expected to contain 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Due to our success in controlling Total Trihalomethanes, a known carcinogen or cancer causing agent, our facility is on reduced monitoring for these chemicals as well as for Lead and Copper. No vulnerability waivers have ever had to be issued to our facility.

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 can dissolve naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Possible contaminants consist of:

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 contaminant, 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 may be naturally occurring or be the result of oil and gas production and mining activities.

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>.

In order to ensure that tap water is safe to drink, USEPA 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, which must provide the same protection for public health. In addition to the informational section of this Water Quality Report, we have included for your review several tables that list contaminants that were detected in your water and the contaminants that were tested for but not detected in your water.

Source Water Assessment Lake Lou Yaeger

Illinois EPA considers all surface water sources of public water supply to be 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.

Source Water Information

Source Water Name	Type of Water
INTAKE (58034) LK LOU YAEGER	TOWARDS E END OF 'DAM SW

2023 Regulated Contaminant• Detected

City of Litchfield

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	09/29/2021	1.3	1.3	0.077	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/29/2021	0	15	3.1	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 sales.

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 8. 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	2023	2.7	2 - 3	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	26	17.6 - 32.3	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	44	21.7 - 61	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2023	0.038	0.038 - 0.038	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2023	0.7	0.715 - 0.715	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Manganese	2023	7	7 - 7	150	150	ppb	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate [measured as Nitrogen]	2023	1	1.2 - 1.2	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2023	1	1.2 - 1.2	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Sodium	2023	16	16 - 16			ppb	N	Erosion from naturally occurring deposits. Used in water softener regeneration.
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2023	0.48	0 - 0.48	3	3	ppb	N	Runoff from herbicide used on row crops.

Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.29 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.

Public Notification about Your Water

The following pages are required by the Environmental Protection Agency.

Last year we received a mislabeled shipping container of sample bottles. Due to the shipping container markings, it was assumed that the samples were to be collected in September rather than by June 30th, which was the collection deadline. As a result, we have received a monitoring violation due to the samples being collected after their due date.

At no time was there any cause for alarm, and all of the samples, even though collected late, were all satisfactory. Many samples exceeded requirements, resulting in a waiver for reduced monitoring of these contaminants. As a result of this incident, we now open all sample containers to verify their content.

We use a two-step process for removing Synthetic Organic Contaminants which involves the addition of a powdered activated carbon during the coagulation treatment stage to grab these contaminants and remove them from the water. The second step is to pass the water over Granular Activated Carbon in the sand filters as a polishing agent for further reduction/removal.

We apologize for this incident and any inconvenience it might have caused. We have adjusted our protocol to ensure that it will not happen again.

For more information you may contact Ray Weller, Water Superintendent at 217-324-2250.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Litchfield

Our water system violated several drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor for SOC's on a regular basis. Results of regular monitoring are an indicator of whether or not our water meets health standards. During April 1st through June 30th, 2023, we failed to collect those routine SOC samples and therefore cannot be sure of the SOC quality of our drinking water during that three month time.

¹SOCs, also known as synthetic organic compounds, are tested by collecting one sample and testing that one sample for all SOC's. SOC's are man-made compounds that are generally herbicides and pesticides such as Atrazine, Diquat, Carbofuran, Chlordane and etc.

What should I do?

There is nothing you need to do at this time.

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for [this contaminant/these contaminants], how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were taken.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	When samples were taken
SOCs	1 sample set every year	None that quarter	04.01.23 - 06.30.23	August 2, 2023

What happened? What is being done?

The SOC sample container was mislabeled. Instead of being September samples they were to be collected by June 30. Samples were collected after the due date and all samples were satisfactory. To prevent this from happening again we are now opening every sample shipping container and verifying the contents even though we don't like unnecessary handling of sample containers. For more information contact Ray Weller at 217/324-2250. This notice is being sent to you by Litchfield Water. Water System ID# IL1350400

Violations Table

Atrazine			
Some people who drink water containing atrazine well in excess of the MCL over many years could experience problems with their cardiovascular system or reproductive difficulties.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Benzo (a) pyrene			
Some people who drink water containing benzo(a)pyrene in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Carbofuran			
Some people who drink water containing carbofuran in excess of the MCL over many years could experience problems with their blood, or nervous or reproductive systems.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Chlordane			
Some people who drink water containing chlordane in excess of the MCL over many years could experience problems with their liver or nervous system, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Violations Table

Dalapon			
Some people who drink water containing dalapon well in excess of the MCL over many years could experience minor kidney changes.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Di (2-ethylhexyl) adipate			
Some people who drink water containing di (2-ethylhexyl) adipate well in excess of the MCL over many years could experience general toxic effects or reproductive difficulties.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Di (2-ethylhexyl) phthalate			
Some people who drink water containing di (2-ethylhexyl) phthalate in excess of the MCL over many years may have problems with their liver, or experience reproductive difficulties, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Dibromochloropropane (DBCP)			
Some people who drink water containing DBCP in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Violations Table

Diieldrin			
Some people who drink water containing excessive Diieldrin over a long period of time may experience problems with their liver, nervous system, weakened immune system, fetal damage may occur in pregnant women, and may have an increased risk of getting cancer.			
Violation Type	Violation Beg:	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Dinoseb			
Some people who drink water containing dinoseb well in excess of the MCL over many years could experience reproductive difficulties.			
Violation Type	Violation Beg:	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Diquat			
Some people who drink water containing diquat in excess of the MCL over many years could get cataracts.			
Violation Type	Violation Beg:	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Endothall			
Some people who drink water containing endothall in excess of the MCL over many years could experience problems with their stomach or intestines.			
Violation Type	Violation Beg:	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Violations Table

Endrin			
Some people who drink water containing endrin in excess of the MCL over many years could experience liver problems.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to teat our drinking water for the contami ant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Ethylene dibromide			
Some people who drink water containing ethylene dibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive system, or kidneys, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Heptachlor			
some people who drink water containing heptachlor in excess of the MCL over many years could experience liver damage and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Heptachlor epoxide			
Some people who drink water containing heptachlor epoxide in excess of the MCL over many years could experience liver damage, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Violations Table

Hexachlorobenzene			
Some people who drink water containing hexachlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys, or adverse reproductive effects, and may have an increased risk of getting cancer.			
Violation Typ•	Violation Bagin	Violation Bnd	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contamiriant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Hexachlorocyclopentadiene			
Some people who drink water containing hexachlorocyclopentadiene well in excess of the MCL over many years could experience problems with their kidneys or stomach.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Lindane			
Some people who drink water containing lindane in excess of the MCL over many years could experience problems with their kidneys or liver.			
Violation Typ•	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Metboxychlor			
Some people who drink water containing methoxychlor in excess of the MCL over many years could experience reproductive difficulties.			
Violation Type	Violation Bagin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Violations Table

OXamyl [Vydate]			
Some people who drink water containing oxamyl in excess of the MCL over many years could experience slight nervous system effects.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

PCBs [Polychlorinated biphenyls]			
Some people who drink water containing PCBs in excess of the MCL over many years could experience changes in their skin, problems with their thymus gland, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Pentachlorophenol			
Some people who drink water containing pentachlorophenol in excess of the MCL over many years could experience problems with their liver or kidneys, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Picloram			
Some people who drink water containing picloram in excess of the MCL over many years could experience problems with their liver.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Violations Table

Simazine			
some people who drink water containing simazine in excess of the MCL over many years could experience problems with their blood.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Toxaphene			
Some people who drink water containing toxaphene in excess of the MCL over many years could have problems with their kidneys, liver, or thyroid, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	04/01/2023	06/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.