



CITY WATER, LIGHT & POWER
SPRINGFIELD, IL

Water Quality Report

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About This Report

The City of Springfield is pleased to bring you the 27th annual Water Quality Report for consumers of drinking water provided by your municipal utility, City Water, Light & Power (CWLP). We hope the information provided here will enlighten you about some of the monitoring undertaken to evaluate the production of your drinking water. Details about where the water comes from, what it contains, and how it compares to standards set by the regulatory agencies are included. As this report will demonstrate, the City is committed to providing you with high quality water.

In 2025, as in years past, tap water produced by CWLP met all United States Environmental Protection Agency (USEPA) and State of Illinois drinking water health standards. The purification

process is monitored 24 hours each day, and CWLP is pleased to report the utility had no violations of a contaminant level in 2025. This report, which summarizes the quality of water CWLP provided last year, and other utility information are available on the CWLP website at www.cwlp.com.

CWLP utility matters are discussed at City Council meetings at 5:30 p.m. on the first and third Tuesdays of each month and at the Council Committee of the Whole meetings held at 5:30 p.m. on the Tuesday of each week prior to a City Council meeting. These meetings are open to the public and are held in the City Council chambers on the third floor of Municipal Center West, 300 S. 7th Street.

About Drinking Water Contaminants

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. Possible contaminants consist of:

- *Microbial contaminants*, such as viruses and bacteria, which can 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;
- *Pesticides/herbicides*, which can come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses;
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff and septic systems;
- *Radioactive contaminants*, which can be naturally occurring or the result of oil and gas production and mining activities.

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/Centers for Disease Control (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, 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

To ensure tap water is safe to drink, the USEPA prescribes regulations that limit the amount of contaminants in water provided by public water systems. The Illinois Environmental Protection Agency (IEPA) administers the drinking water program in Illinois under rules adopted by the Illinois Pollution Control Board. These rules are identical in substance to those of the USEPA. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Due to a favorable monitoring history, the USEPA and IEPA have issued no variances or exemptions to the CWLP Water Division.

This Water Quality Report includes tables that will give you a better picture of the drinking water contaminants CWLP tested for and detected during 2025.

Testing and Reporting Regulated Contaminants

The *Detected Contaminants* table on page 3 lists all contaminants detected in drinking water produced by CWLP during 2025. Although testing was conducted for many more contaminants, only those substances listed in the table were found in the water. If you would like a full list of all tested substances, call the CWLP Water Purification Plant at (217) 757-8630.

All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive and, in most cases, would

not provide increased protection of public health. A few naturally occurring minerals might actually improve the taste of drinking water and have nutritional value at low levels.

In the *Detected Contaminants* table on page 3 and the *Common Quality Analyses of Springfield Drinking Water* table on page 4, you might find a number of terms and abbreviations that are not familiar to you. To help you better understand these terms, please check the *Measurement Definitions, Definitions of Terms and Data Table Footnotes* on page 4.

Monitoring Requirements Notice

The City of Springfield has been issued a monitoring violation concerning the Synthetic Organic Compounds (SOC) Rule. Regular monitoring for certain contaminants must be conducted. The results of monitoring serve as a measure of compliance with health standards for the drinking water.

Samples for atrazine during its monitoring period spanning from July 1, 2025 to September 30, 2025 were taken on August 4, 2025 and submitted to the Illinois Environmental Protection Agency (IEPA) lab.

The August 4, 2025 sample result was a non-detect with no level of atrazine found.

The samples were reported as invalid due to the IEPA laboratory not using a USEPA-approved method of analysis. Atrazine has been associated with health-related problems if the water is consumed for extended periods. The IEPA has assured City of Springfield an USEPA-approved method of analysis will be used for future testing

See page 5 for the IEPA-required notice with details..

Source Water Assessment

Lake Springfield is the surface water source of our drinking water. It contains over 17 billion gallons of water and covers about 3,965 acres. Its 265-square-mile watershed, including the Sugar and Lick Creek drainage areas, is composed primarily of agricultural land. During times of low precipitation, water is pumped from the South Fork of the Sangamon River at its confluence with Horse Creek.

To convert this raw water supply to drinking water, lake water is pumped through CWLP's Water Purification Plant where chemical reactions are initiated to assist in the removal of algae, suspended solids, hardness and many chemical constituents. The clarification basins remove the bulk of these materials and the final filter beds remove very small particles. Fluoride is added to

prevent tooth decay; chlorine to disinfect the finished water; and ammonia to stabilize the chlorine in the distribution system.

Illinois EPA considers all surface water sources of community water supplies to be susceptible to potential pollution problems; hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Causes of pollution to lakes include nutrients, siltation, suspended solids, and organic enrichment. Primary sources of pollution include agricultural runoff, land disposal (septic systems), and shoreline erosion. If you would like a copy of the assessment, call the Water Purification Plant at (217) 757-8630.

Lead

The Lead and Copper Rule (LCR) was developed to protect public health by minimizing lead levels in drinking water. The LCR established an action level of 15 ppb for lead based on the 90th percentile level of tap water samples collected. Lead is sampled on a mandated three-year testing cycle with sampling conducted at the customer's tap.

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. CWLP is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also

use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water, you may wish to have your water tested, contact City Water Light and Power Water Purification Plant at 217-757-8630 Ext. 1702. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>

CWLP has conducted an inventory of its lead services lines. To access our service line inventory, please visit, <https://cwlp.com/leadawareness>.

The lead tap sampling data is available for review and can be accessed through IEPA's Drinking Water Watch website, <https://tinyurl.com/3szj2xv4>. You can access this site also by searching "Drinking Water Watch" at illinois.gov. (Click to "Go To Service"; Input "Springfield" in "Water System Name"; Click on "Search For Water System"; Click on "IL1671200"; Click on "Chem/Rad Samples/Results by Analyte"; Scroll down to "Lead" and click on "1030").

Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

In 2023, CWLP's Public Water System (PWS) sampled 29 PFAS chemicals under the USEPA Fifth Unregulated Contaminant Monitoring Rule (UCMR5). If you are interested in examining the results, please contact Andrew James at 217-757-8630 ext. 1702. For more information about PFAS health advisories visit, <https://epa.illinois.gov/topics/water-quality/pfas/pfas-healthadvisory.html>.

2025 Detected Contaminants

CONTAMINANT (unit of measurement) Typical source of contaminant	<i>MCLG</i>	<i>MCL</i>	<i>Highest Level Found</i> ¹	<i>Range of Detections</i> ¹	<i>Violation</i>	<i>Date of Sample</i>
Microbial Contaminants						
TURBIDITY ² (NTU) (%≤0.3 NTU) soil runoff	n/a	TT	100.00	100-100		
TURBIDITY ² (NTU) soil runoff	n/a	1NTU _{max}	0.30	n/a		
Inorganic Contaminants						
BARIUM (ppm) discharge of drilling wastes, metal refineries; erosion of natural deposits	2	2	0.0144	n/a		
COPPER (ppm) corrosion of household plumbing systems; erosion of natural deposits	1.3	AL=1.3	0.0759	ND-0.254 0 exceeding AL		
FLUORIDE ³ (ppm) erosion of natural deposits; water additive to promote strong teeth; discharge from fertilizer and aluminum factories	4	4	0.8	0.7 – 0.8		
LEAD ⁴ (ppb) corrosion of household plumbing systems; erosion of natural deposits	0	AL=15	ND	ND-8.1 0 exceeding AL		
NITRATE ⁵ (as NITROGEN) (ppm) runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	10	10	0.38	ND – 0.38		
Disinfectants/Disinfection By-Products						
HALOACETIC ACIDS (HAA5) (ppb) by-product of drinking water disinfection	n/a	60	25.4	15.7 – 32.4		
CHLORAMINE (as Cl ₂) (mg/L) water additive used to control microbes	MRDLG=4	MRDL=4	2	2 – 2		
TOTAL TRIHALOMETHANES (TTHMs) (ppb) by-product of drinking water disinfection	n/a	80	44	30.0-53.8		
State Regulated Contaminants⁶						
SODIUM ⁷ (ppm) erosion of natural deposits; leaching	n/a	n/a	12.4	n/a		
Synthetic Organic Contaminants						
Atrazine (ppb) pesticides and herbicides	3	3	0.35	ND-0.35		
Unregulated Contaminants⁸						
PERFLUOROBUTANOIC ACID (PFBA) (ppb) breakdown product of PFAS	n/a	n/a	0.006	ND-0.006		2023
Total Organic Carbon⁹ See Data Table Footnote 9, p4						

The EPA and the State of Illinois require monitoring for some contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. To help you better understand some of the terms and abbreviations, see the definitions on page 4.

Common Quality Analyses of Springfield Drinking Water

<i>Values in ppm unless otherwise noted</i>	<i>Minimum</i>	<i>Average</i>	<i>Maximum</i>
pH ¹⁰ (units)	9.1	9.4	9.7
TOTAL ALKALINITY (as CaCO ₃) ¹¹	30	49	93
TOTAL HARDNESS (as CaCO ₃) ¹¹	80	99	142
CALCIUM HARDNESS (as CaCO ₃) ¹¹	40	59	100
MAGNESIUM HARDNESS (as CaCO ₃) ¹¹	14	40	66
RESIDUAL CHLORINE, TOTAL	1.4	2.3	2.8

Measurement Definitions

<i>n/a</i>	Not applicable.	<i>%≤0.3NTU</i>	Percent of samples less than 0.3 NTU.
<i>nd</i>	Not detected at testing limits.	<i>ppm (mg/L)</i>	Parts per million, or milligrams per liter.
<i>NTU</i>	Nephelometric Turbidity Unit; measures cloudiness in drinking water.	<i>ppb (ug/L)</i>	Parts per billion, or micrograms per liter.
		<i>pCi/L</i>	Picocuries per liter; measures radioactivity.

Definition of Terms

Maximum Contaminant Level Goal (MCLG) 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 Contaminant Level (MCL) Highest level of a contaminant allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.

Maximum Residual Disinfectant Level Goal (MRDLG) Level of disinfectant in drinking water below which there is no known or expected health risk.

Maximum Residual Disinfectant Level (MRDL) Highest level of disinfectant allowed in drinking water.

Highest Level Found Highest level found of sample result data collected during the calendar year. It may represent a single sam-

ple if only one sample was collected.

Range of Detections Range of individual sample results, from lowest to highest, collected during the calendar year.

Date of Sample If a date is provided, the IEPA requires monitoring for this contaminant less than once per year because concentrations change infrequently. If no date appears, monitoring for this contaminant was conducted during the calendar year of this report.

Action Level (AL) Concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

Treatment Technique (TT) Required process intended to reduce the level of a contaminant in drinking water.

Data Table Footnotes

¹**Informational Statement** The Range of Detections column includes data from all samples taken to satisfy various monitoring requirements. Values in the Highest Level Found column represent only data collected for the IEPA compliance monitoring program.

²**Turbidity** Measure of the cloudiness of the water caused by suspended particles. A good indicator of water quality and the effectiveness of our filtration system and disinfectants.

³**Fluoride** Added to the water supply to promote strong teeth. The Illinois Department of Public Health recommends an optimal fluoride range of 0.6 mg/L to 0.8 mg/L.

⁴**Lead** See Page 2 description.

⁵**Nitrate** Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

⁶**State Regulated Contaminants** In an effort to ensure the safest water possible, the Illinois EPA requires water suppliers to moni-

tor some contaminants not regulated by the USEPA.

⁷**Sodium** There is no state or federal MCL for sodium. Monitoring is required to provide information to consumers and health officials who are concerned about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, consult a physician about this level.

⁸**Unregulated Contaminants** A maximum contaminant level (MCL) for these contaminants has not been established by either State or Federal regulations, nor has mandatory health effects language been set. The purpose of unregulated contaminant monitoring is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.

⁹**Total Organic Carbon (TOC)** The percentage of TOC removal was measured each month and CWLP met all TOC removal requirements.

¹⁰**pH** Measure of hydrogen ion concentration expressed as acidity or alkalinity. The pH scale is in units of 0-14, where 7 is neutral, less than 7 is acidic, and greater than 7 is alkaline.

¹¹**CaCO₃** Calcium carbonate.



Monitoring Requirements Notice

Important Information About Your Drinking Water

The City of Springfield's Water System was notified the testing laboratory it used to conduct atrazine testing in 2025 did not use an approved method of analysis. Even though this was not an emergency, as our customers, you have a right to know what happened and what was done to correct the situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards.

For the July 1, 2025 – September 30, 2025 monitoring period, the Illinois Environmental Protection Agency (IEPA) laboratory conducted testing for atrazine using a method of analysis not approved by USEPA, and therefore the City cannot be sure of the quality of your drinking water during that time.”

The table below lists the contaminant tested for during the monitoring period.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When All Sample Should Have Been Taken	When Samples Were Taken
Atrazine	1	1	July 1, 2025- September 30, 2025	August 4, 2025

The IEPA has assured City of Springfield a USEPA-approved method of analysis will be used for future testing. The August 4, 2025 testing conducted by the IEPA's laboratory resulted in a non-detect with no level of atrazine found.

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.

*For more information, please contact Kim Lucas
217-757-8630 ext. 1703
kim.lucas@cwlp.com*

This notice is being sent to you by the City of Springfield Water Department.