

2024 WATER QUALITY REPORT FOR CITY OF SOLON, IOWA

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our groundwater is drawn from the Silurian aquifer(s). Our water quality testing shows the following results:

CONTAMINANT	MCL – (MCLG)	Type	Compliance Value & (Range)	DATE SAMPLED	VIOLATION	SOURCE
Copper (ppb)	AL=1.3 (1.3)	90th	0.18 (0.04-0.21)	2023	NO	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppm)	AL=15 (0)	90th	7.00 (ND – 12)	2023	NO	Corrosion of household plumbing systems; Erosion of natural deposits
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	15.00 (15-15)	09/30/2024	NO	By-Product of drinking water chlorination

Facility 950 Distribution System						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.13 (0.18 – 2)	12/31/2024	NO	Water additive used to control microbes

Facility 02 S/EP FRM Well #2 - 1960						
Combined Radium (pCi/L)	5 (0)	SGL	1.6	7/11/2019	NO	Erosion of natural deposits
Gross Alpha, inc (pCi/L)	15 (0)	SGL	2.3	7/11/2019	NO	Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	5	4/08/2024	NO	Erosion of natural deposits; Added to water during treatment process
Fluoride (ppm)	4 (4)	SGL	0.24	1/11/2024	NO	Water additive which promotes strong teeth. Erosion of natural deposits; Discharge from fertilizer and aluminum factories.
Barium	2 (2)	SGL	0.12	1/11/2024	NO	Discharge of drilling waste. Discharge from metal refineries. Erosion of natural deposits

Facility 03 S/EP FRM Well #3 - 1998						
Gross Alpha, imc (pCi/L)	15 (0)	SGL	3.4	1/03/2019	NO	Erosion of natural deposits
Combined Radium (pCi/L)	5 (0)	SGL	1.2	1/06/2022	NO	Erosion of natural deposits
Arsenic (ppb)	10 (N/A)	SGL	5.00	4/08/2024	NO	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production waste
Sodium	N/A (N/A)	SGL	8.2	4/08/2024	NO	Erosion of natural deposits; Added to water during treatment process
Fluoride (ppm)	4 (4)	SGL	1.30	11/16/2024	NO	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium (ppm)	2 (2)	SGL	0.1	4/08/2021	NO	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits

Facility 04 S/EP FRM Well #4 - 2010						
Combined Radium (pCi/L)	5 (0)	SGL	1.3	10/03/2019	NO	Erosion of natural deposits

Gross Alpha, imc (pCi/L)	15 (0)	SGL	1.4	10/06/2022	NO	Erosion of natural deposits
Barium (ppm)		SGL	0.09	7/17/2019	NO	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits
Arsenic (ppb)	10 (N/A)	SGL	1.00	7/17/2019	NO	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production waste
Sodium	N/A (N/A)	SGL	5.8	7/07/2022	NO	Erosion of natural deposits; Added to water during treatment process
Fluoride (ppm)	4 (4)	SGL	1.2	9/16/2024	NO	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- Maximum Contaminant Level (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 (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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND – Not detected.
- RAA – Running Annual Average
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Maximum Residual Disinfectant Level Goal (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.
- Maximum Residual Disinfectant Level (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.

- SGL – Single Sample Result
- RTCR – Total Coliform Rule
- NTU – Nephelometric Turbidity Units

GENERAL INFORMATION

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 posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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. The City of Solon is responsible for providing high quality drinking water but 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>.

Our water supply has completed a service line inventory. Please contact us for information regarding the inventory and how you can access the results.

ADDITIONAL HEALTH INFORMATION

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

SOURCE WATER ASSESSMENT INFORMATION

The City of Solon water supply obtains

its water from the dolomite of the Silurian aquifer. The Silurian aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Silurian wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the IDNR and is available from the Public Works Director at 319-624-3755 or by emailing [soloncithall@solon-iowa.com](mailto:soloncithall@solon-iowa.com).

CONTACT INFORMATION

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact the Solon Water Department at 319-624-3755, or by attending any of our City Council Meetings, held the 1st and 3rd Wednesdays of each month, at the City Hall, 101 N. Iowa Street, at 5:30 PM. Please "Like" us on FACEBOOK® "City of Solon" to stay up to date on community happenings and information. The city website, [www.solon-iowa.com](http://www.solon-iowa.com) is also a great source for community information and notifications.

This Consumer Confidence Report will be mailed or emailed by request. Please contact City Hall at 319-624-3755 or emailing [soloncithall@solon-iowa.com](mailto:soloncithall@solon-iowa.com) Published in the Solon Economist May 29, 2025.

CLASSIFIEDS

For Rent

House for Rent in Lisbon. 4 bedrooms, 2 bathrooms, 1.6 acres in town. First month's rent + security deposit. No Pets. Available July 1. 319-361-9872

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Miscellaneous

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Miscellaneous

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Class Action Lawsuit

IF YOU HAD KNEE OR HIP REPLACEMENT SURGERY and suffered an infection between 2020 and the present time, you may be entitled to compensation. Call Attorney Charles H. Johnson 1-800-535-5727

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