

Consumer Confidence Report
Annual Drinking Water Quality Report for the Village of Heyworth
(Based on Calendar Year 2022 data)

<p>Owner: HEYWORTH</p> <p>System ID: IL1130650</p> <p>Annual Water Quality Report for the period of January 1, 2022 to December 31, 2022</p> <p>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.</p> <p>The source of drinking water used by HEYWORTH is Ground Water from Wells. Water is blended from the wells at the plant prior to treatment.</p> <p>For more information regarding this report contact:</p> <p>Contact: Village of Heyworth Name: David Shafer Email: Engineer@heyworth-il.gov Phone: 309-473-2811</p> <p>Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.</p>	<p>Source of Drinking Water</p>	<p>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 1-800-426-4791.</p>
	<p>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 pickup substances resulting from the presence of animals or from human activity.</p>	<p>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.</p>
	<p>Contaminants that may be present in source water include:</p> <ul style="list-style-type: none"> - 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. 	<p>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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).</p> <p>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 Village of Heyworth 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.</p>

Source Water Information

Source of Water Name	Type of Water	Report Status	Location
Well 1 (47627)	GW (Ground Water)	Active	West of Creek Lane / West of Water Plant
Well 2 (47626)	GW (Ground Water)	Active	100' North of RT136 (W Cleveland Ave)
Well 3 (01250)	GW (Ground Water)	Active	West of Creek Lane, 100' South of Well 1

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 Village Board meetings. Regularly scheduled meetings are held the first and third Thursday of each month beginning at 6:30 p.m. 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 Village Hall or call our water operator at 309-473-2811. 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>.

To determine Heyworth's susceptibility to groundwater contamination, the following document was reviewed: a Well Site Survey, published in 1989 by the Illinois EPA. Based on the information obtained in this document, there are 2 potential sources of groundwater contamination that could pose a hazard to groundwater utilized by Heyworth's community water supply. These include 1 sand and gravel pit, and 1 pesticide and fertilizer storage facility. In addition, information provided by the Leaking Underground Storage Tank and Remedial Project Management Sections of the Illinois EPA indicated sites with on-going remediation that might be of concern. Based upon this information, the Illinois EPA has determined that the Heyworth 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. The land use within the recharge areas of the wells was analysed as part of this susceptibility determination. This land use includes woodlands and agricultural properties.

2022 Regulated Contaminants Detected

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*	2022	1.3	1.3	0.16	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead*	2022	0	15	1.2	1	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)
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppt:	micrograms per liter or parts per trillion - or one ounce in 7,350,000,000 gallons of water.
pCi/L:	picocuries per liter (a measure of radioactivity)
AL:	Action Level
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
Chlorine	12/31/2022	0.8	0.63 - 1.04	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2022	8	7.76 - 7.76	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (THM)	2022	29	28.79 - 28.79	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*	7/15/2021	0.069	0.069 - 0.069	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride*	7/15/2021	0.749	0.749 - 0.749	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminium factories.
Iron*	7/15/2021	0.01	0.010 - 0.010		1.0	ppm	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Manganese*	7/15/2021	< 1.0	< 1.0	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]	7/19/2022	1	0.83 - 0.83	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium*	7/15/2021	26	26 - 26			ppm	N	Erosion from naturally occurring deposits: Used in water softener regeneration.
Zinc*	7/15/2021	0.0084	0.0084 - 0.0084	5	5	ppm	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Naturally occurring; discharge from metal
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228*	1/17/2020	1.2	1.2 - 1.2	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium*	01/12/2011	0.423	0.423 - 0.423	0	15	pCi/L	N	Erosion of natural deposits.

* Some contaminants are sampled less frequently than once a year; as a result, not all contaminants were sampled for during the CCR calendar year. If any of these contaminants were detected the last time they were sampled for, they are included in the table along with the date that the detection occurred.

PFAS Detection

In 2020 the Village of Heyworth Water System was sampled as a part of the State of Illinois PFAS State-wide Investigation. Results from this sampling indicated that PFAS were detected in our drinking water below the health advisory level established by the Illinois EPA. Follow up monitoring is being conducted roughly every 6 months. For more information about PFAS health advisories please see <https://www2.illinois.gov/epa/topics/water-quality/pfas/Pages/pfas-healthadvisory.aspx>. The Village has also dedicated a page to our ongoing monitoring with all lab results being posted as available at <https://www.heyworth-il.gov/local-government/departments/public-works/pfas-information-and-links.php>. There are currently no regulations on PFAS in drinking water. The following PFAS compounds were tested for and had results issued in 2022:

PFAS Analyte	Acronym	Minimum Reporting Level (ppt)	Draft Guidance Level (ppt)	Analytical Result (ppt)
Perfluorobutanesulfonic acid	PFBS	2	2,100	ND
Perfluorohexanesulfonic acid	PFHxS	2	140	2.1 - 2.2
Perfluorononanoic acid	PFNA	2	21	ND
Perfluorooctanesulfonic acid	PFOS	2	14	ND
Perfluorooctanoic acid	PFOA	2	2	ND
Hexafluoropropylene oxide dimer acid	HFPO-DA	2	21	ND
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2	----a	ND
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2	----a	ND
Perfluorodecanoic acid	PFDA	2	----a	ND
Perfluorododecanoic acid	PFDoA	2	----a	ND
Perfluoroheptanoic acid	PFHpA	2	----a	ND
Perfluorohexanoic acid	PFHxA	2	3,500	ND
Perfluorotetradecanoic acid	PFTA	2	----a	ND
Perfluorotridecanoic acid	PFTTrDA	2	----a	ND
Perfluoroundecanoic acid	PFUnA	2	----a	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	2	----a	ND
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	2	----a	ND
4,8-dioxa-3H-perfluorononanoic acid	ADONA	2	----a	ND

^a Toxicity criteria is not currently available to calculate a Draft Guidance Level.

ND - Not Detected; Not Present, or below the level of laboratory detection.

Violations

The Village of Heyworth Water System had no violation notices in 2022.

Reports will not be mailed to customers, for a copy of this report or for more information please contact Village Hall at 309-473-2811