

HECLA WATER ASSOCIATION

2024 ANNUAL WATER QUALITY REPORT (TEST RESULTS FROM 2023)

This report is designed to inform you about the drinking water and services we deliver every day. Our constant goal is to provide you with a safe dependable supply of drinking water, and we would like for you to understand the efforts we make continually to improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

SOURCES OF CONTAMINATION

What are sources of contamination to 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: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; (B) 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; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; (D) 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; (E) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the number 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.

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 Federal Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

This newsletter is distributed to Hecla Water Association consumers in order to provide information about their drinking water source. Direct questions or comments to tim@heclawater.com

Hecla Water is an Equal Opportunity Employer

DRINKING WATER SOURCE

Hecla Water's primary water source is groundwater from the Ohio River Valley Aquifer System located along side State Route 7, just southeast of Athalia, Ohio. The well field contains eight wells which pump over two million gallons of water each day. The treatment process includes sand filtering, fluoridation and chlorination. The softening process was eliminated due to the increase in demand. Hecla Water has a source protection plan which is being updated to include added security measures. The Homeland Security Act protects the details of the protection plan and additional security. If you have any questions about this report or concerning your water company, contact Tim Dalton at 533-0526. If you want to learn more about your water system, attend the regularly scheduled meetings, held each month on the fourth Thursday at 11:30 AM at the office on State Route 141.

Hecla Water also uses the City of Ironton as a secondary source of water. The city treats surface water from the Ohio River through pre-sedimentation, up flow clarification, filtration, and chlorination. The Ironton Water Treatment plant was constructed in 1993 and provides approximately 1.74 million gallons of drinking water a day. Customers in the Coryville and Porter Gap areas are fed from the Ironton interconnection. Although less than 1% of the daily supply, Ironton serves as a supplementary and emergency connection for Hecla Water.

TURBIDITY

Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is {0.3 NTU) in 95% of the daily samples and shall not exceed 1 NTU at any time. As reported above, the purchased water from the city of Ironton's highest recorded turbidity result for 2023 was 0.26 NTU and lowest monthly percentage of samples meeting the turbidity limits was 100%.

LEAD IN DRINKING WATER

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 Hecla Water Association 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 drinking water, testing methods, and steps you can take to minimize exposure is available from the safe drinking water Hotline at www.epa.gov/safewater/lead.

INITIAL DISTRIBUTION SYSTEM EVALUATION

Under the Stage 2 Disinfectants/Disinfection byproducts Rule (D/DBPR), our public water system was required by USEPA to conduct an evaluation of our distribution system. This is known as an Initial Distribution System Evaluation (IDSE) and is intended to identify locations in our distribution system with elevated disinfection byproduct concentrations. The locations selected for the IDSE may be used for compliance monitoring under Stage 2 DBPR, beginning in 2012. Disinfection byproducts are the result of providing continuous disinfection of your drinking water and form when disinfectants combine with organic matter naturally occurring in the source water. Disinfection byproducts are grouped into two categories. Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5). USEPA sets standards for controlling the levels of disinfectants and disinfectant byproducts in drinking water, including both TTHMs and HAA5s.

CONTAMINANT LEVELS

Maximum Contaminant Levels are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink two liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

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 microbiological contaminants are available at 1-800-426-4791.

SUSCEPTIBILITY ANALYSIS

The aquifer that supplies drinking water to the Hecla Water Association wells is moderately susceptible to contamination. This determination was made because of the following reasons:

- The water table of the sand and gravel aquifer begins approximately 40 feet below the ground surface.
- There is approximately 15-25 feet of sandy clay overlying the sand and gravel. This may slow the migration of contaminants into the aquifer.
- Potential significant contaminant sources exist within the protection area.

Water quality data were evaluated using the drinking water compliance database at Ohio EPA. The available data do not indicate that contamination has impacted the aquifer at Hecla Water Association's wellfield. Because sampling requirements are for treated water, the lack of water quality impacts does not necessarily indicate a lack of contamination. This determination is limited by the sampling that is performed for the water system. Eight (8) potential sources of contamination have been identified by Hecla Water Association including SR 7, the Ohio River, home septic systems, an auto body shop, commercial facilities with fuel/fuel oil tanks, and a salvage yard. Because of these potential sources of contamination that exist within the wellhead/source water protection area and the moderate sensitivity of the aquifer, the Hecla Water Association's wellfield is considered to be moderately susceptible to contamination. In summary, there is a moderate likelihood for contamination of the Hecla Water Association's source water. Implementing appropriate protection strategies for the potential contaminant sources will help reduce the likelihood of contamination affecting the aquifer.

CONSUMER CONFIDENCE REPORT DEFICIENCIES

The Ohio EPA notified the Hecla Water Association of four deficiencies in the 2019 Consumer Confidence Report. These deficiencies have been addressed, corrected, and added to the current Consumer Confidence report. The deficiencies included mandatory language concerning sources of water, definitions of MCLG and MRDLG, removal of old violations, and correct units of measurement for copper (ppm).

ENVIRONMENTAL PROTECTION AGENCY VIOLATIONS

Hecla Water Association received two violations during the sanitary survey taken on April 12, 2022. Both violations were in accordance with OAC 3745-83-01(H) regarding water storage tank inspections and unaccounted for water loss. These violations were resolved on June 30, 2022 and January 3, 2024 respectively.

WHAT SHOULD I DO?

You do not need to take any action in response to this notice. These deficiencies have been addressed, corrected, and added to the current Consumer Confidence report. The deficiencies included mandatory language concerning sources of water, definitions of MCLG and MRDLG, removal of old violations, and correct units of measurement for copper (ppm).

WHAT IS BEING DONE?

Upon being notified of these deficiencies, the water company revised the CCR to include this information.

ADDITIONAL INFORMATION

Additional information may be obtained by contacting Hecla Water Association-Plant PWS at:

Hecla Water Association Inc.

3190 State Route 141

Ironton, OH 45638

PWSID: OH4401612 Facility ID: DS1

Hecla Water Board of Directors meet on the 4th Thursday of each month at the water office. The address is 3190 State Route 141 Ironton, OH 45638

Hecla Water's contact person for questions regarding the water system and/or CCR would be Tony Howard, General Manager or Tim Dalton, Engineering Dept., both of who are present at the board of directors meetings. They can also be reached at 740-533-0528.

The Source Water Assessment for Hecla Water Association is available online at

<http://wwwapp.epa.ohio.gov/gis/swpa/OH4401612.pdf>

A direct link to the 2024 Consumer Confidence Report for Hecla Water Association is listed on the June billing statements and hard copies are available at the office.

The 2024 CCR is available online at <http://heclawater.com/PDF/HeclaWater-CCR-2024.pdf>

Hecla Water has a current, unconditioned license to operate this water system.

HECLA WATER LAB AVERAGES FROM 2023

A table containing the averages of various values from the daily lab testing is listed below:

Name	Average	Range
pH*	7.21	7.05-7.34
Phenol Alkalinity	0 mg/L	0
Total Alkalinity	121.77	115.16-127.40
Total Hardness	161.67 mg/L	152.73-168.29
Total Hardness	9.46 grains/gal	8.92-9.83
*pH is scaled from 0 (acidic) to 14 (alkaline)		

DEFINITIONS FOR TEST RESULT TABLES

Less Than = <] [More Than = >] [N/A or NA = not applicable] [nonreg = non regulated by EPA] [TT = treatment technique] [NTU = nephelometric turbidity units]

Action Level (AL)- the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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. **Maximum Contaminant level (MCL):** The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. **Maximum Residual Disinfectant Level (MRDL):** The highest residual disinfectant level allowed. **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of residual disinfectant below which there is no known or expected risk to health.

UNREGULATED CONTAMINANTS

Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. In 2020, Hecla Water participated in the fourth round of the unregulated contaminant monitoring rule (UCMR4). The results for the unregulated contaminant testing are shown in the table below. If you have any questions, please call 740-533-0526.

Name	Average	Range	Year
1,4 Dioxane	.29 yg.k	0.110-0.47	2015
Bromochloroacetic Acid	5.38 µg/l	3.2-12	2019
Bromodichloroacetic Acid	3.85 µg/l	1-8.8	2019
Chlorate	25 µg/l	N/A	2015
Chlorodibromoacetic Acid	1.75 µg/l	1.1-3.6	2019
Chromium	0.067 µg/l	N/A	2015
Dibromoacetic Acid	2.38 µg/l	0.92-4.1	2019
Dichloroacetic Acid	7.60 µg/l	2.8-22	2019
Hexavalent Chromium	0.0595 µg/l	0.034-0.095	2015
Manganese	16.76 µg/l	N/A	2018
Molybdenum	1.316 µg/l	1.1-1.6	2015
Monobromoacetic Acid	0.55 µg/l	0-0.83	2019
Monochloroacetic Acid	5.35 µg/l	0-19	2019
Strontium	178.75 µg/l	160-230	2015
Trichloroacetic Acid	6.42 µg/l	1.1-16	2019
Vanadium	0.265 µg/l	0.24-0.29	2015

HECLA WATER TREATMENT PLANT RESULTS TABLE #1

PWS—OH4401612 SOURCE—GROUNDWATER WELL FIELD ON SR 7 NEAR ATHALIA. THE HECLA WATER ASSOCIATION ROUTINELY MONITORS FOR CONTAMINANTS IN YOUR DRINKING WATER ACCORDING TO FEDERAL AND STATE LAWS. THESE TABLES SHOW THE MOST RECENT TESTING DONE IN ACCORDANCE WITH THE REGULATIONS.

Contaminate	MCLG	MCL	Level Found	Range	Violation	Year	Typical Source of contamination
Asbestos	7 MFL	7 MFL	<0.18	N/A	NO	2021	Decay of asbestos cement in water mains; erosion of natural deposits
Chlorine (ppm)	MRDLG = 4	MRDL = 4	0.938333	0.87 – 1.03	NO	2023	Water additive used to control microbes
Nitrate (ppm)	10	10	0.612 mg/L	N/A	NO	2023	Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits
Fluoride (ppm)	4.0	4.0	1.044 mg/L	0.71-1.55	NO	2023	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
Total Trihalomethanes (ppb)	N/A	80	47.175	16.6-81.1	NO	2023	Byproduct of drinking water disinfection
Five Haloacetic Acids (ppb)	N/A	60	22.825	4.1-21.8	NO	2023	Byproduct of drinking water disinfection
Alpha emitter	0	15 pCi/L	1.0 ± 1.3	N/A	NO	2021	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Radium 228	0	5 pCi/L	0.84 ± 0.64	N/A	NO	2021	Erosion of natural deposits
Contaminate	MCLG	MCL	90th Percentile	Range	Violation	Year	Typical Source of contamination
Lead** (ppb)	0	Action limit=15	2.3000	N/A	NO	2023	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	1.3	Action limit=1.300	.3805	N/A	NO	2023	Corrosion of household plumbing systems; erosion of natural deposits

Table 1 Additions:

1 of 35 lead samples exceeded the action level in June-September 2023 testing cycle. The 1 sample that exceeded the action level tested 17.2µg/L.

0 of 35 copper samples extended the action level in June-September 2023 testing cycle.

CITY OF IRONTON – SURFACE WATER TREATMENT PLANT RESULTS TABLE #2

TABLE #2 City of Ironton—Surface Water Treatment Plant	MCLG [MRDLG]	MCL [MRDL]	Level Found	Range Low-High	Any Violation	Year	Typical Source of contamination
Barium (ppm)	2	2	0.0318	N/A	No	2023	Discharge of drilling wastes; Discharge from Metal refineries; Erosion of natural deposits
Chlorine (ppm)	4	4	1.35	1.09-1.74	No	2023	Water additive used to control microbes
Fluoride (ppm)	4	4	1.30	0.80-1.30	No	2023	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Haloacetic Acids [HAA] - Stage 2 (ppb)	N/A	60	22.22	14.50-32.20	No	2023	By-product of drink water disinfection
Nitrate (ppm)	10	10	0.86	0.60-1.22	No	2023	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
TTHM [Total Trihalomethanes] - Stage 2 (ppb)	N/A	80	47.62	20.20-89.6	No	2023	By-product of drinking water disinfection
Total Organic Carbon (ppm)	N/A	TT	1.40	1.2-2.3	No	2023	Naturally present in environment
Turbidity (NTU)	N/A	TT	0.26	0.05-0.26	No	2023	Soil runoff
Turbidity (Lowest monthly percent of samples meeting limit)	N/A	TT	100%	N/A	No	2023	Soil Runoff
Secondary Substances Fluoride	N/A	SMCL 2.0	1.05	0.80-1.3	No	2023	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Contaminate	MCLG	AL	Amount Detected (90th Percentile)	Sites Above AL Total Sites	Any Violation	Year	Typical Source of contamination
Copper (ppm)	1.3	1.3	<0.05	0/30 Range: <.05-1.10	No	2023	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	<5.0	0/30 Range: <5.0-14.4	No	2023	Corrosion of household plumbing systems; Erosion of natural deposits