

Piedmont Water System
Drinking Water Consumer Confidence Report
For 2023

Introduction

The Harrison County Water and Sewer District has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included within this report are general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts.

Source Water Information

The Piedmont Water System receives its drinking water from groundwater supplies. The water is pumped from the systems well, located on the Stanley Moore property at the west end of piedmont, to the treatment facility at the east end of Piedmont where it is treated and pumped to an 80,000-gallon elevated water storage tank in the community of Moorefield.

Susceptibility Analysis

This assessment indicates that Piedmont's source of drinking water has a moderate susceptibility to contamination due to the presence of a moderately thick protective layer of sandstone/shale overlaying the aquifer, no evidence to suggest that ground water has been impacted by any significant levels of chemical contaminants from human activities, and the presence of numerous potential contaminant sources in the protection area. This susceptibility means that under current existing conditions, the likelihood of the aquifer becoming contaminated is moderate. This likelihood can be minimized by implementing appropriate protective measures. This susceptibility analysis is subject to revision if new potential contamination sources are sited within the protection area, or if water sampling indicates contamination by a manmade source. For further assistance on drinking water source protection, please contact the Harrison County water office at 740-942-0411.

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. 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).

Who needs to take special precautions?

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 infection. 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 (1-800-426-4791).

About your drinking water.

The EPA requires regular sampling to ensure drinking water safety. The Piedmont Water System conducted sampling for bacteria, nitrate, and disinfection by products during 2022. The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than one year old.

Table of Detected Contaminants

Listed below is information on those contaminants that were found in the Piedmont drinking water.

TABLE OF DETECTED CONTAMINANTS

Contaminants (Units)	MCLG Or MRDLG	MCL,T,OR MRDL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Radioactive Contaminants							
Alpha emitters (pCi/L)	0	15	1.46 +/- 1.61	NA	No	2024	Erosion of natural deposits
Radium	0	5	0.717 +/- 0.345	NA	No	2024	Erosion of natural deposits
Inorganic Contaminants							
Barium(ppm)	2	2	0.757	NA	No	2024	Discharge of drilling wastes
Arsenic(ppb)			5.19	NA	No	2024	

Chromium (ppb)			2.44	NA	No	2024	
Nickel (ppb)			2.59	NA	No	2024	
Selenium (ppb)			1.34	NA	No	2024	
Nitrate(measure as Nitrogen)(ppm)	10	10	0.297	NA	No	2024	Runoff from fertilizer use leaching from septic tanks, sewage, Erosion of natural deposits
Synthetic Organic Contaminants including Pesticides and Herbicides							
Volatile Organic Contaminants							
Haloacetic Acids(HAA5)ppb)	NA	60	17.4	NA	No	2023	By-product of drinking water
Total Trihalomethane(T HMs)(ppb)	NA	80	52.1	NA	No	2023	By-product of drinking water
Residual Disinfectants							
Total Chlorine(ppm)	4	4	0.8	0.5-1.3	No	2023	Water additive used to control microbes
Lead and Copper							
Contaminants (units)	Action Level (AL)	Individual Results over the AL	90% of test levels were less than	Violation	Year Sampled	Typical source of Contaminants	
Lead (ppb)	15 ppb	0	1.00	No	2023	Corrosion of household plumbing systems	
	0 out of _5_ samples were found to have lead levels in excess of the lead action level of 15 ppb.						
Copper (ppm)	1.3 ppm	0	.233	No	2023	Corrosion of household plumbing systems	
	0 out of _5_ samples were found to have copper levels in excess of the copper action level of 1.3 ppm.						

Lead Educational Information

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. Piedmont water system 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 at 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

License to Operate (LTO) Status Information

In 2023 we had an unconditional license to operate our water system.

Public Participation and Contact Information

Public participation and comment are encouraged at regular meetings of the Harrison County Water Board which meets the first Tuesday of each month. For more information on your drinking water contact Steve Rocknich at 740-942-0411 or 740-491-0183

Definitions of some terms contained within this report.

- **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.
- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.
- **Parts per Million (ppm) or Milligrams per Liter (mg/L)** are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.
- **Parts per Billion (ppb) or Micrograms per Liter (µg/L)** are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.
- **The "<" symbol:** A symbol which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.
- **Picocuries per liter (pCi/L):** A common measure of radioactivity.