

## Key to Detected Contaminants Tables

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

**HAA5 - Haloacetic acids** - HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.

**LRAA - Locational Running Annual Average**

**MCL - Maximum Contaminant Level** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLs as feasible using the best available treatment technology.

**MRDL - Maximum Residual Disinfectant Level** - The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**MCLG - Maximum Contaminant Level Goal** - The level of contaminant in drinking water below which there is no known or expected risk to health.

**MRDLG - Maximum Residual Disinfectant Level Goal** - 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.

**NTU - Nephelometric Turbidity Units** - Measures the cloudiness of water.

**pCi/l - Picocuries per liter** - A measure of radioactivity.

**ppb - Parts per billion (one in one billion)** - The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.

**ppm - Parts per million (one in one million)** - The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.

**RAA - Running National Average**

**TT - Treatment Technique** - A required process intended to reduce the level of a contaminant in drinking water.

**TTHM - Total Trihalomethanes** - Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromo-chloromethane, and bromoform. Compliance is based on the total.

**μhos - Micromhos** - Measure of electrical conductance of water

**°C - Celsius** - A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.

**n/a - not applicable**

**ND - Not Detected**

**> - Greater than**

## City of Westland Water Quality - Test Results 2024

Regulated Contaminant	Test Date	Units	Health Goal MCLG	Allowed Level MCL	Level Detected	Range of Detection	Violation	Major Sources in Drinking Water
2024 Inorganic Chemicals – Monitoring at the Plant Finished Water Tap								
Fluoride	2/13/2024	ppm	4	4	0.49	n/a	No	Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	2/13/2024	ppm	10	10	0.31	n/a	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Lead and Copper Monitoring at the Customer's Tap in 2024								
Regulated Contaminant	Year Sampled	Units	Health Goal MCLG	Action Level AL	90th Precentile Value*	Range of Individual Sample Results	Numbers of Samples Over AL	Major Sources in Drinking Water
Lead	2024	ppb	0	15	0 ppb	0 - 1	0	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper	2024	ppm	1.3	1.3	0.1 ppm	0.0 - 0.5	0	Corrosion of household plumbing system; Erosion of natural deposits;

\*The 90th percentile value means 90 percent of homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

2024 Disinfectant Residual - Monitoring in Distribution System by Treatment Plant								
Regulated Contaminant	Test Date	Units	Health Goal MRDLG	Allowed Level MRDL	Highest RAA	Quarterly Range of Detection	Violation Yes/No	Major Sources in Drinking Water
Total Chlorine Residual	2024	ppm	4	4	0.74	0.63-0.76	No	Water additive used to control microbes
2024 Disinfectant By-Products - Stage 2 Disinfection By-Products Monitoring in Distribution System								
Regulated Contaminant	Test Date	Units	Health Goal MCLG	Allowed Level MCL	Highest Level LRAA	Range of Detection	Violation Yes/No	Major Sources in Drinking Water
Total Trihalomethanes (TTHM)	2024	ppb	n/a	80	45.5	20-62	No	By-product of drinking water chlorination
Halogen Acids (HAA5)	2024	ppb	n/a	60	28	6.7-40	No	By-product of drinking water chlorination

2024 Turbidity - Monitored every 4 hours at Plant Finished Water Tap				
Highest Single Measurement Cannot exceed 1 NTU	Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%)	Violation Yes/No	Major Sources in Drinking Water	
0.13 NTU	100%	No	Soil Runoff	

*Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.*

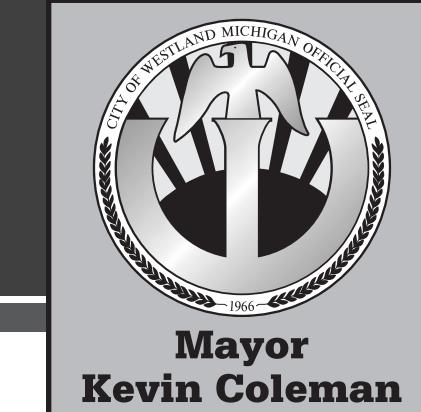
*Summary of Violation: Great Lakes Water Authority (GLWA) did not monitor individual filter turbidity*

*for five hours on September 2, 2024, due to an interruption of power at the GLWA Springwells Water Treatment Plant. The issue was resolved.*

Regulated Contaminant	Treatment Technique				Typical Source of Contaminant
Total Organic Carbon (ppm)	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC was measured each quarter and because the level was low, there is no TOC removal.				Erosion of natural deposits.

2023 Special Monitoring						
Contaminant	Test Date	Unit	MCLG	MCL	Highest Level Detected	Source of Contamination
Sodium (ppm)	04/11/2023	ppm	n/a	n/a	7.0	Erosion of natural deposits

These tables are based on tests conducted by GLWA in the year 2023 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year only tests that show the presence of a substance or require special monitoring are presented in these tables. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.



# 2024 Westland Water Quality Report

**Mayor  
Kevin Coleman**

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

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.

Please visit our website at [www.CityofWestland.com](http://www.CityofWestland.com) for more information.

## Written Notice Requirement:

Furthermore, compliance with Public Act 222 of 2001, an amendment to Michigan's Governmental Immunity Statute 1964 PA 170, as amended MCL 691.1401 to 691.1419, requires that a claimant who wishes to seek compensation for property damage or physical injury resulting from a sewage disposal system event notify the City of Westland, Water and Sewer Superintendent, **in writing, within 45 days after the date the damage or physical injury was discovered, or in the exercise of reasonable diligence should have been discovered**. The written notice shall contain the claimant's name, address and telephone number, the address of the affected property, the date of discovery of any property damages or physical injuries, and a brief description of the claim. Failure to comply with the notice requirements may prevent the recovery of damages and bar any claim that a claimant may have.

[www.CityofWestland.com](http://www.CityofWestland.com)

# CONSUMER CONFIDENCE REPORT

# THIS IS YOUR ANNUAL REPORT ON DRINKING WATER QUALITY

Contaminants that may be present in source water include:

**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 organics, 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.

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. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health."

## People with Special Health Concerns

Some people may be more vulnerable to contaminants in drinking water than is 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)."

## Parents with small children

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

## Lead

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. The City of Westland is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry, or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for at least 5 minutes to flush water from both your home plumbing and the lead service line. If you are concerned about lead in your water and wish to have

your water tested, contact City of Westland Department of Public Service at (734 728-1770) for available resources. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead/>.



## Service lines

City of Westland in process of taking inventory of all water service line materials. These are the current numbers. 28,454 service lines. 0 partial lead service Lines. 13,193 unknown material service lines. You can access Information about the Distribution System Material Inventory online at <https://www.cityofwestland.com/1868/Complete-Distribution-System-Materials-I>

## Water Source

Your source water comes from the Detroit River, situated within the Lake St. Clair, Clinton River, Detroit River, Rouge River, Ecorse River, watersheds in the U.S. and parts of the Thames River, Little River, Turkey Creek, and Sydenham watersheds in Canada. The Michigan Department of Environmental Quality in partnership with the U.S. Geological Survey, the Detroit Water and Sewerage Department, and the Michigan Public Health Institute performed a source water assessment in 2004 to determine the susceptibility of GLWA's Detroit River source water for potential contamination. The susceptibility rating is based on a seven-tiered scale and ranges from very low to very high determined primarily using geologic sensitivity, water chemistry, and potential contaminant sources. The report described GLWA's Detroit River intakes as highly susceptible to potential contamination. GLWA's Springwells water treatment plant that draws water from the Detroit River has historically provided satisfactory treatment and meets drinking water standards.

**About Unregulated Contaminant Monitoring**

Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where these contaminants occur and whether it needs to regulate those contaminants. Below is the report of unregulated contaminants detected during the sampling and analysis performed in 2024.

Unregulated Contaminant	Level Detected	Units	Year Sampled	Use or Environmental Source
29 PFAS Compounds	All levels under reporting limit	ug/L	2024	Per- and polyfluoroalkyl substances (PFAS) are a class of chemicals that have been used in industry and consumer products for decades, and they continue to be used today.
Lithium	<9.00	ug/L	2024	Lithium is a naturally occurring metal, has numerous commercial uses including as a main component of batteries, and is likely found in a variety of foods. Lithium is also used as a pharmaceutical to treat certain medical conditions.

**GLWA Tier 3 Public Notice Table**

Great Lakes Water Authority (GLWA) is required to notify water users of any unresolved significant deficiencies identified by the Michigan Department of Environment, Great Lakes, and Energy, Drinking Water and Environment Health Division (EGLE). Below is the status of significant deficiencies in the GLWA water system identified by EGLE:

Date Identified by EGLE	Description	Compliance Agreement Deadline	Use or Environmental Source
05-25-2022	Inoperable rapid mixing equipment at the Springwells 1930'3 water plant	12-31-2023	Completed in December 2023.
05-25-2022	Inoperable flocculation equipment at the 1958 Springwells water plant	11-11-2027	Phase I construction is completed as of December 2024. Phase II scheduled to begin at the fall of 2025.

GLWA has initiated source-water protection activities that include chemical containment, spill response, and a mercury reduction program. GLWA participates in the National Pollutant Discharge Elimination System permit discharge program and has an emergency response management plan. GLWA has an updated Surface Water Intake Protection plan for the Belle Isle Intake. The plan has seven elements that include: roles and duties of government units and water supply agencies, delineation of a source water protection areas, identification of potential sources of contamination, management approaches for protection, contingency plans, siting of new water sources, public participation, and public education activities. If you would like to know more information about the Source Water Assessment report, please, contact GLWA at (313 926-8127).

The City of Westland maintains over 325 miles of water main, over 5300 hydrants and over 6500 valves in our system. We have flushed the water mains in numerous areas of the city this year to remove buildup from the water main and improve pressure and quality of the water you receive. We will be doing other sections of the City of Westland in 2025 as the weather permits, working through the city on a continual basis. We are also operating and repairing the valves for isolating the water throughout the city to insure proper operation of the valves in an emergency. In 2024, the valve maintenance program focused in the southeast area of the City.