

Sources of drinking water (both tap 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.

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 from the Safe Drinking Water Hotline at (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. Westfield Public Works 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 [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

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 the 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.

## SOURCE WATER ASSESSMENT AND WELLHEAD PROTECTION

A Source Water Assessment has been completed for your community. The source of Westfield's drinking water is groundwater produced from three well fields located within the Westfield community. Specifically, your drinking water source is either the New Castle Till Plains and Drainage ways Region or the Tipton Till Plain Region. The New Castle Till Plain wells have *moderate and low contamination susceptibility* ratings due to a thick clay layer. Wells within the Tipton Till Plain are reported to be *highly susceptible to contamination* due to the sandy soils in the region and a thin clay layer.

To help protect our water supply wells, the Westfield Public Works has implemented a Wellhead Protection Plan that focuses on protecting the groundwater sources, public awareness and education, and spill prevention and reporting. For more information on your Source Water Assessment and Wellhead Protection Plan, please contact the Westfield Public Works.

## PROTECT OUR DRINKING WATER SUPPLY AND OUR WATERSHED

- Reduce the amount of fertilizers, pesticides, or other hazardous chemicals that you use. Buy only what you need so that you don't have to dispose of leftovers. Read all the labels and follow directions.
- Use organic lawn and garden alternatives that do not contain synthetic chemical poisons. Reduce the use of products that contain any of the following words on their labels: caution, warning, danger, poison, flammable, volatile, caustic, or corrosive.
- Recycle used oil, automotive fluids, batteries, and other products. Don't dispose of hazardous products in toilets, storm drains, wastewater systems, creeks, alleys, or the ground. This pollutes the water supply.
- Residents can utilize the Hamilton County Household Hazardous Waste Center at 1717 E. Pleasant Street, Suite 200 in Noblesville. For more information, visit [www.hamiltoncounty.in.gov/](http://www.hamiltoncounty.in.gov/) and click on household hazardous waste in the department directory or call (317) 776-4005.

*Prepared by  
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# Annual Drinking Water Quality Report



## Public Works Department

The Westfield Public Works proudly presents this year's Annual Drinking Water Quality Report. This report is designed to keep you informed about the quality of your drinking water over the past year.

At the Westfield Public Works, we work diligently to provide top quality water to every tap and ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

If you have any questions about this report or concerning your water utility, please contact Kurt Wanninger at (317) 804-3100. If you want to learn more, you are welcome to attend the monthly Board of Public Works and Safety meetings. Please contact the Westfield Public Works Department or visit the City website for meeting dates and times.

## FOR MORE INFORMATION

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## DEFINITIONS

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

**Below the Detection Limit (BDL)** - Substance not detected in the sample.

**Grains per Gallon (GPG)** - Grains per gallon refers to the hardness of water. Very hard water has more than ten grains per gallon, and very soft water has less than one grain per gallon.

**Maximum Contaminant Level (MCL)** - The "Maximum Allowed" (MCL) is 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. To understand the possible health effects described for many regulated substances, a person would have to drink 2 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.

**Maximum Contaminant Level Goal (MCLG)** - The "Goal" (MCLG) is 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** - The "Maximum Allowed" (MRDL) is the highest level of disinfectant allowed in drinking water.

**Maximum Residual Disinfectant Level Goal** - The "Goal" (MRDLG) is the level of drinking water disinfectant below which there is no known or expected risk to health.

**Not Applicable (N/A)** - No MCLG or MCL has been established for these unregulated substances.

**Parts per billion (PPB)** - One part per billion corresponds to one minute in two thousand years or a single penny in \$10,000,000.

**Parts per million (PPM)** - One part per million corresponds to one minute in two years or a single penny in \$10,000.

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 stormwater 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, stormwater runoff, and residential uses.
- Organic chemicals, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive materials, which can be naturally occurring or be the result of oil and gas production and mining activities.

## AVERAGE WATER QUALITY DATA FOR 2011

Westfield Public Works routinely monitors for constituents in your drinking water according to all Federal and State laws. The following table provides the results for only those substances that were detected as part of our most recent monitoring.

Name of Substance	Date Sampled	Violation Yes/No	Maximum Level Detected	Range of Levels Detected	Unit Measurement	MCLG	MCL	Likely Source of Substance in Drinking Water
<b><u>Inorganic Substances</u></b>								
Arsenic	5/23/2011	No	2.5	BDL to 2.5	PPB	0	10	Erosion of natural deposits.
Barium	5/23/2011	No	0.25	BDL to 0.25	PPM	2	2	Erosion of natural deposits.
Copper	9/16/2009	No	0.48 <sup>(1)</sup>	0.005 to 0.57	PPM	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits.
Fluoride	2011	No	1.14	0.80 to 1.14	PPM	2	2	Erosion of natural deposits; Water additive which promotes strong teeth.
Lead	9/16/2009	No	6.3 <sup>(1)</sup>	BDL to 75.6	PPB	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits.
Mercury	5/23/2011	No	0.6	0.3 to 0.6	PPB	2	2	Erosion of natural deposits; runoff from cropland.
Nickel	5/23/2011	No	2.0	BDL to 2	PPB	100	N/A	Erosion of natural deposits.
Nitrate	2011	No	0.38	BDL to 0.38	PPM	10	10	Runoff from fertilizer use; natural deposit erosion.
Sodium	5/23/2011	No	27	BDL to 27	PPM	N/A	N/A	Erosion of natural deposits, urban runoff.
<b><u>Disinfection Byproducts and Precursors</u></b>								
Bromodichloromethane	5/23/2011	No	6.4	0.7 to 6.4	PPB	0	N/A	By-product of drinking water chlorination.
Bromoform	5/23/2011	No	0.6	BDL to 0.6	PPB	N/A	N/A	By-product of drinking water disinfection.
Chlorine Residual	2011	No	1.1	0.2 to 1.1	PPM	MRDLG=4	MRDL=4	Water additive used to control microbes.
Chlorodibromomethane	05/23/2011	No	2.2	BDL to 2.2	PPB	N/A	N/A	By-product of drinking water disinfection.
Chloroform	5/23/2011	No	19.1	0.6 to 19.1	PPB	N/A	N/A	By-product of drinking water disinfection.
HAA5s (Haloacetic acids)	2011	No	10.5 <sup>(2)</sup>	4.7 to 29.2	PPB	0	60	By-product of drinking water chlorination.
Total TTHMs (Trihalomethanes)	2011	No	24.2 <sup>(2)</sup>	BDL to 66.9	PPB	0	80	By-product of drinking water chlorination.
<b><u>Microbiological Substances</u></b>								
Total Coliform Bacteria	11/15/2011	No	1 <sup>(4)</sup>	BDL to 1	Positive monthly sample	0	One positive monthly sample	Naturally present in the environment.
<b><u>Physical Parameters</u></b>								
Hardness of Water	2011	No	31	14 to 31 <sup>(3)</sup>	GPG	N/A	N/A	Naturally occurring in water.

### Table Notes

(1)- Levels detected for copper and lead represent the 90<sup>th</sup> percentile value, as calculated from 30 samples. Note that two of the 30 samples for lead exceeded the Action Level. This is not a water quality violation. The 90<sup>th</sup> percentile value for lead is below the MCL.

(2)- The maximum levels detected for TTHMs and HAA5s represent the running annual averages based on quarterly samples.

(3)- The hardness range is representative of the average measurements at the River Road, Cherry Tree, North, and Greyhound Pass Plants.

(4)- Maximum level detected for Total Coliform Bacteria represents the number of positive monthly samples. This detection was an isolated incident. Further testing showed no detections.

The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore some of our data, while representative, is more than one year old.