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2006 City of Wyoming's WATER QUALITY REPORT



We are pleased to report that your drinking water meets, and often is better than, all state and federal guidelines for safe drinking water.

Included in the details of this 2006 Water Quality Report is important information about where your water comes from, what's in it, and how it compares to standards set by regulatory agencies. We update this report annually and will keep you informed if any problems occur throughout the year.

Esta publicación contiene información importante sobre el agua que usted bebe diariamente. Si no lo entiende, busque a alguien que se lo traduzca o le explique su contenido. Para más información, llame al (616) 261-3552 o visite página electrónica www.epa.gov/espanol/

Our source for drinking water is Lake Michigan. Rain, ground water, rivers, and streams feed into Lake Michigan, dissolving naturally occurring minerals and sometimes picking up substances resulting from the presence of animals or from human activity. Some of the substances which can make their way into Lake Michigan are: viruses and bacteria from animal, agricultural, and human activities, salts, metals, pesticides and herbicides, as well as by-products of industrial processes, and radioactive contaminants, which occur naturally or may be the result of oil and gas production and mining activities.



Call Myron Erickson, at (616)261-3562 for technical questions about this report or with any water quality questions. Copies are available at City Hall, the Wyoming Public Library, the Drinking Water Treatment Plant, or by calling 616-261-3552. To learn more about the Utilities Department, visit us on the web at www.ci.wyoming.mi.us.

In order to ensure that tap water is safe to drink, EPA prescribes regulations, called Maximum Contaminant Levels (MCLs) which limit the amount of certain contaminants in your drinking water.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. However, the presence of contaminants in drinking water does not necessarily indicate that the drinking water poses a health risk. For more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline: (800) 426-4791.



2006 City of Wyoming's Water Quality Report



Wyoming
 Michigan

MDEQ conducted a Source Water Assessment of the City of Wyoming's water system, in partnership with Wyoming's Wholesale Water Customers, in 2003. This report found that our water supply has a moderately high susceptibility to contaminants. This report is intended to encourage protection of water sources, provide information for watershed assessment and planning, direct additional water studies and improve land use planning. For a copy of this report, please call our office at 616-399-6511.

Do you want to help protect our Source for Drinking Water?

You can participate in public hearings related to the protection of our source water by contacting the Michigan Department of Environmental Quality (MDEQ) on the web at www.deq.state.mi.us. You may also call (800)662-9278 for a listing of public hearings regarding various environmental issues in your area.



Water Quality Report 2006

As authorized by the EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of our data, though representative, is more than one year old.

REGULATED MONITORING AT THE TREATMENT PLANT						
SUBSTANCE	UNITS	Level Found	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
Fluoride	ppm	1.1	4	4	0	Additive which promotes strong teeth

SUBSTANCE	UNITS	Level Found	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
Turbidity	NTU	0.13	TT = 1 NTU	NA	0	Soil runoff and natural sediment
100% of Turbidity sample levels were found to be < 0.3 NTU.						

REGULATED MONITORING IN THE DISTRIBUTION SYSTEM							
SUBSTANCE	UNITS	Range	Highest Running Annual Average	MCL	MCLG	Samples Exceeding MCL	POSSIBLE SOURCES
Chlorine Residual	ppm	0.10 - 1.27	0.86	4	MRDLG=4	0	Used to disinfect drinking water
Haloacetic Acids	ppb	10.2 - 38.1	21.6	60	NA	0	Formed when chlorine is added to water with naturally occurring organic material
Trihalomethanes	ppb	14.1 - 50.8	30.1	80	NA	0	

REGULATED MONITORING AT THE CUSTOMER'S TAP						
Compliance is determined using the 90th percentile, where nine out of ten samples must be below the Action Level. These results are from testing conducted in 2004.						
SUBSTANCE	UNITS	90th Percentile	AL	MCLG	Samples Exceeding AL	POSSIBLE SOURCES
Copper	ppb	80	1300	1300	0	Corrosion of household plumbing system, erosion of natural deposits, micronutrients
Lead	ppb	4	15	0	0	

UNREGULATED MONITORING			
SUBSTANCE	UNITS	REPORTED LEVEL	SOURCE
Hardness	ppm	117	Naturally present due to dissolved calcium and magnesium salt
pH	pH	7.43	pH is an important measurement of the acidity or alkalinity of water
Chloride	ppm	10	Naturally present in the environment
Sodium	ppm	8.0	Naturally present in the environment

Results were gathered from tests performed by the City of Wyoming's certified lab, as well as, the State of Michigan's Department of Environmental Quality laboratory.

Take a Tour of the Drinking Water Treatment Plant. Call 616-669-5780.

DEFINITION KEY

- AL** Action Level: the concentration of a contaminant which, if exceeded, triggers a treatment or other requirement, which a water system must follow.
- MCL** Maximum Contaminant Level: the highest level of a contaminant that is allowed in drinking water; MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
- MCLG** Maximum Contaminant Level Goal: the level of a contaminant in drinking water below which there is no known or expected risk to health; MCLG's allow for a margin of safety.
- MRDL** Maximum Residual Disinfection Level: 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.
- MRDLG** Maximum Residual Disinfection Level Goal: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits to the use of disinfectants to control microbial contaminants.
- NA** Not applicable
- ND** Not Detected
- NTU** Nephelometric Turbidity Unit: measurements of minute suspended particles, used to judge water clarity.
- ppb** parts per billion or micrograms per liter (ug/l)
- ppm** parts per million or milligrams per liter (mg/l)
- TT** Treatment Technique: a required process, intended to reduce the level of a contaminant in drinking water.



Each day, our staff works to ensure the water delivered to your home meets all regulatory requirements and your expectations for safety, reliability and quality. For your protection, your drinking water is tested for many parameters. We are proud to report there were no violations of regulatory standards in 2006.

Testing is also performed to detect the presence of Cryptosporidium and Giardia, which are protozoan parasites that occur in natural surface waters such as lakes, rivers and streams. Wyoming's water treatment process provides multiple barriers, including clarification, filtration, and disinfection, to lower the risk of these contaminants in finished tap water. Monitoring of treated water samples yielded a 100% removal rate, proving the effectiveness of the treatment system in microscopic particle removal. For information on microbiological testing, contact our laboratory at 616-261-3562.

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 persons and infants - can be particularly at risk from infections.

These people should seek advice about drinking water from their healthcare providers. Environmental Protection Agency (EPA) and Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the EPA Safe Drinking Water Hotline: (800) 426-4791.

