



2014 Water Quality Report

"... meeting community needs ... enhancing quality of life"

The Appleton Water Utility provides safe, abundant drinking water to the City of Appleton, Waverly Sanitary District, the Town of Grand Chute, and the Village of Sherwood. We want you to be confident in the safety and reliability of water you get every time you turn on the tap. The utility is a self-financed enterprise owned by the City of Appleton. Appleton water meets federal and state health-protection standards. It is regulated by the Public Service Commission (PSC) of Wisconsin, the U.S. Environmental Protection Agency (EPA), and the Wisconsin Department of Natural Resources (WDNR).



The Appleton Water Treatment Facility treats Lake Winnebago water to protect the public health with a multiple-step process that removes illness-causing microorganisms and contaminants. The water is lime softened, and filtered through granular activated carbon for control of

taste and odors. Membrane ultra-filtration removes additional particles, microorganisms and contaminants. Fluoride is added for dental health. Chlorine disinfection provides safe, high quality drinking water throughout the distribution system and to your faucets.

Source of Appleton's Drinking Water

The source of Appleton's drinking water is Lake Winnebago. Lake Winnebago is in the Fox and Wolf River watersheds that receive water from up to 100 miles away. As water flows over land surfaces and through rivers and lakes, naturally occurring substances may become dissolved in the water. The substances are called contaminants. Surface water sources may be highly susceptible to stormwater pollution. For information on how stormwater pollution can impact our water bodies visit www.fwwa.org. Surface water is also affected by animal and human activities. For more information on impacts to your source of drinking water see the "Source Water Assessment for Appleton Waterworks" available at the Appleton Public Library or visit www.dnr.state.wi.us/org/water/dwg/swap/surface/appleton.pdf for the Wisconsin DNR Source Water Assessment Program website.



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POSTAL PATRON

CARRIER ROUTE
PRE-SORT W/S

PRSR STD
U.S. POSTAGE
PAID
APPLETON, WI
PERMIT NO. 11

Information for Persons with Compromised Immune Systems


Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as persons 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. EPA/CDC guidelines on appropriate means to lessen the risk of infection are available from the Safe Drinking Water Hotline, 1-800-426-4791, and the Centers for Disease Control (CDC) www.cdc.gov.

New Treatment Technology

The City of Appleton continues to evaluate effective water treatment technologies to meet regulatory requirements and has moved forward with the construction of an ultraviolet (UV) light process as an additional disinfection barrier. UV disinfection effectively inactivates pathogens such as Cryptosporidium and Giardia that may be present in the Lake Winnebago water supply. UV disinfection will be installed at the Appleton Water Treatment Facility downstream of the membranes, and eventually replace them as the pathogen barrier. The completed project will increase removal efficiencies while reducing operating, electrical and chemical costs. The process equipment is scheduled to be commissioned by July 2015. The project also includes three chemical feed systems and an updated computer control system. The project continues to be within the prescribed budget of \$6 million dollars.

Safe Drinking Water On Tap

The Safe Drinking Water Act provides a regulatory framework to maintain and protect public water supplies. To get an easy to read EPA booklet on drinking water go to: http://water.epa.gov/drink/guide/upload/book_waterontap_full.pdf



Important Information
This report contains important information about your drinking water. Please contact us if you have any questions.
(920) 997-4200 or www.appleton.org

Información importante!
Este reporte contiene información importante sobre su agua potable. Por favor llámenos al (920) 997-4200, si tiene alguna pregunta o www.appleton.org

Lug tseem ceeb rua cov siv diej kws has lug Moob
Ntawm nuav yog cov lug tseem ceeb qha txug kev haus dej nyob nroog Appleton. (920) 997-4200, www.appleton.org

The Utilities Committee meets TUESDAY of the week following Common Council at 4:30 p.m., in Committee Room 6A of City Center.

Appleton Water Treatment Facility - Safe Water on Tap

The table below identifies the regulated substances that were detected in water regulatory testing in 2014. Every regulated substance that is detected, even in trace amounts, is listed here. The level detected for these contaminants were all below levels allowed by state and federal regulations in 2014.

Contaminant (units)	MCL	MC LG	Level Found	Range	Violation	Typical Source of Contaminant
Arsenic (ppb)	10	n/a	0.54	0.54	None	Erosion of natural deposits; Run off from orchards; runoff from glass and electronics production wastes
Barium (ppm)	2	2	0.004	0.004	None	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chromium (ppb)	100	100	0.38	0.38	None	Discharge from steel and pulp mills; Erosion of natural deposits
Coliform (TCR)	>=5% of monthly samples	NA	0%	NA	None	Naturally present in the environment.
Copper (ppm)	AL=1.3 (90%)	1.3	0.0776	0 of 30 results were above the action level	None	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
Cyanide (ppb)	200	200	9	9	None	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
Fluoride (ppm)	4	4	0.76	0.76	None	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. SMCL = 4.0 ppm
Haloacetic Acid (HAA5) multiple sites (ppb)	60	60	22 (average)	16-26	None	By-product of drinking water chlorination. Reported is the highest annual location average and largest range from the multiple sites.
Lead (ppb)	AL=15 (90%)	0	1.40	0 of 30 results were above the action level	None	Corrosion of household plumbing systems; Erosion of natural deposits
Nitrate (NO3-N) (ppm)	10	10	0.71	0.71	None	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Radium (226 + 228) (pCi/l)	5	0	1.4	1.4	None	Erosion of natural deposits
Sodium (ppm)	n/a	n/a	13.0	13.0	None	n/a
Sulfate (ppm)	n/a	n/a	35.0	35.0	None	n/a
Trihalomethanes, Total (TTHM) multiple sites (ppb)	80	0	41 (average)	25-50	None	By-product of drinking water chlorination. Reported is the highest annual location average and largest range from the multiple sites.

Definitions and Notes

AL – Action Level: The concentration of a contaminant which, if exceeded, triggers actions necessary by the water system such as treatment. AL of 90% for lead and copper is the 90th percentile value of all testing results.

Haloacetic Acids – Total of Mono-, di-, and tri-chloroacetic acid; mono- and di-bromoacetic acid; and bromochloroacetic acids

MCL – Maximum Contaminant Level: 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.

MCLG – Maximum Contaminant Level Goal: 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.

n/a – Not Applicable

ND – Not Detected

pCi/l – Picouries per liter

ppb – Parts per billion, or micrograms per liter (ug/l)

ppm – Parts per million, or milligrams per liter (mg/l)

SMCL – Secondary Maximum Contaminant Level: Inorganic chemicals that are not hazardous to health but may be objectionable to an appreciable number of persons.

Trihalomethanes, Total – Total of chloroform, bromo-dichloromethane, dibromochloromethane and bromoform

In accordance with s. NR 810.29, Wisconsin Administrative Code, the treated surface water is monitored for turbidity to confirm that the filtered water is less than or equal to 0.3 NTU in at least 95 percent of the measurements taken each month and never exceeds 1 NTU. In 2014, the highest single entry point turbidity measurement was 0.07 NTU. The lowest monthly percentage of samples meeting the turbidity limits was 100 percent.

Lead and Copper Monitoring

The Utility is required to periodically test the drinking water in homes at 30 predetermined sites in the distribution system for lead and copper, which enters the drinking water by corrosion of home plumbing. For the last test year, 2014 and since the introduction of polyphosphates in 1994, the water supply complies with the lead and copper action levels.

Utility Payments Made Easy

Direct payments of your utility billing are available. Please see the City's website <http://www.appleton.org/itd/finance/utility.pdf> for information and application form.

Moving In / Moving Out / Unoccupied

If you are moving or have utility billing changes, call the City of Appleton Finance Department at (920)832-6442 to update your account status. If your residence is temporarily unoccupied and you wish to have your water supply turned off to your property, call the City of Appleton Municipal Services Building at (920)832-5580 to request an appointment to have your water turned off, applicable charges will apply.

This report contains a summary of results for regulatory testing conducted on your drinking water over the past year. For questions about this report, please contact Chris Shaw at (920) 997-4200.