

**VILLAGE OF DEFOREST
WATER DEPARTMENT
2013 ANNUAL DRINKING WATER QUALITY REPORT**

The DeForest Water Utility has completed this year's Annual Drinking Water Quality Report. This report is to inform you about the water quality in DeForest. This year's report will not be mailed but, if you would like a copy of the report they can be found at the following locations: DeForest Municipal Building, 306 DeForest Street and the Public Service Facility, 205 DeForest Street. Office hours are Monday through Thursday from 7:30 am to 4:30 pm and Friday's 7:30 am to 2:00 pm.

Contacting Your Water Utility

If you have any questions about this report or concerning your water utility, please contact **Deane Baker, Public Works Director or Mark Tenjum, Lead Utility Operator at 846-6751**. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. The Public Works Committee meetings are held on the third Monday of every month at 5:30 p.m. at the DeForest Public Service Facility in the Conference Room located at 205 DeForest Street.

Health Information

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 (800-426-4791).

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 systems 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 Environmental Protection Agency's safe drinking water hotline (800-426-4791).

Source(s) of Water

Source id	Source	Depth (in feet)	Status
2	Groundwater	412	Active
3	Groundwater	660	Active
4	Groundwater	695	Active
5	Groundwater	765	Temporarily out of service

To obtain a summary of the source water assessment, please contact Mark Tenjum at (608) 846-6751.

Educational Information

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:

- 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 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.
- 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 that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

Number of Contaminants Required to be Tested

This table displays the number of contaminants that were required to be tested in the last five years. The CCR may contain up to five years worth of water quality results. If a water system tests annually, or more frequently, the results from the most recent year are shown on the CCR. If testing is done less frequently, the results shown on the CCR are from the past five years.

Contaminant Group	# of Contaminants
Disinfection Byproducts	2
Inorganic Contaminants	16
Microbiological Contaminants	1
Radioactive Contaminants	4
Synthetic Organic Contaminants including Pesticides and Herbicides	23
Unregulated Contaminants	4
Volatile Organic Contaminants	20

Disinfection Byproducts

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2012)	Violation	Typical Source of Contaminant
HAA5 (ppb)	60	60	1	1	08/11/2010	NO	
TTHM (ppb)	80	0	3.3	3.3	08/11/2010	NO	By-product of drinking water chlorination

Inorganic Contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2012)	Violation	Typical Source of Contaminant
BARIUM (ppm)	2	2	.027	.010-.027	03/29/2011	NO	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
CHROMIUM (ppb)	100	100	1	1- 1	03/29/2011	NO	Discharge from steel and pulp mills; Erosion of natural deposits
COPPER (ppm)	AL=1.3	1.3	.186	0 of 20 results were above the action level		NO	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
FLUORIDE (ppm)	4	4	.1	.1- .1	03/29/2011	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
LEAD (ppb)	AL=15	0	3.30	0 of 20 results were above the action level			Corrosion of household plumbing systems; Erosion of natural deposits
NICKEL (ppb)	100		3.9000	3.0000-3.9000	03/29/2011	NO	Nickel occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products.
NITRATE (N03-N) (ppm)	10	10	2.90	nd- 3.16		NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SODIUM (ppm)	n/a	n/a	6.50	3.40-6.50	03/29/2011	NO	n/a

Radioactive Contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2012)	Violation	Typical Source of Contaminant
COMBINED URANIUM (ug/l)	30	0	0.5	0.5	03/29/2011	NO	Erosion of natural deposits
GROSS ALPHA, EXCL. R & U (pCi/l)	15	0	2.7	-.4 – 2.7	03/28/2011	NO	Erosion of natural deposits
GROSS ALPHA INCL. R & U (n/a)	n/a	n/a	2.7	nd – 2.7	03/28/2011	NO	Erosion of natural deposits
GROSS BETA PARTICLE ACTIVITY (pCi/l)	n/a	n/a	1.7	nd - 1.7	02/25/2008	NO	Decay of natural and man-made deposits. MCL units are in millirem/year. Calculation for compliance with MCL is not possible unless level found is greater than 50 pCi/l.
RADIUM, (226 + 228) (pCi/l)	5	0	2.7	1.4 – 2.7	03/28/2011	NO	Erosion of natural deposits

Unregulated Contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2012)	Violation	Typical Source of Contaminant
BROMODICHLOROMETHANE (ppb)	n/a	n/a	.97	.97	08/11/2010	NO	n/a
BROMOFORM (ppb)	n/a	n/a	.60	.60	08/11/2010	NO	n/a
CHLOROFORM (ppb)	n/a	n/a	.63	.63	08/11/2010	NO	n/a
DIBROMOCHLOROMETHANE (ppb)	n/a	n/a	1.10	1.10	08/11/2010	NO	n/a

Unregulated contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2012)	Violation	Typical Source of Contaminant
METHYL-TERT-BUTYL-ETHER (ppb)	n/a	n/a	5.50	5.50		NO	n/a

Volatile Organic Contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2012)	Violation	Typical Source of Contaminant
1,1,1-TRICHLOROETHANE (ppb)	200	200	.5	.5		NO	Discharge from metal degreasing sites and other factories
TETRACHLOROETHYLENE (ppb)	5	0	.2	.2		NO	Leaching from PVC pipes; Discharge from factories and dry cleaners

Definition of Terms

Term	Definition
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
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.
MFL	million fibers per liter
MRDL	Maximum residual disinfectant 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 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.
mrem/year	millirems per year (a measure of radiation absorbed by the body)
NTU	Nephelometric Turbidity Units
pCi/l	picocuries per liter (a measure of radioactivity)

ppm	parts per million, or milligrams per liter (mg/l)
ppb	parts per billion, or micrograms per liter (ug/l)
ppt	parts per trillion, or nanograms per liter
ppq	parts per quadrillion, or picograms per liter
TCR	Total Coliform Rule
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

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