2009 Annual Drinking Water Quality Report
Town of Vienna
PWSID # 0090008

In compliance with Safe Drinking Water Act amendments by Congress of 1996 and subsequent Federal and State regulations, Town of Vienna is pleased to provide this annual water quality report for calendar year 2008 Town of Vienna routinely monitors for contaminants in your drinking water. For more information on the source of your water and the significant potential sources of contamination, contact the Maryland Source Water Assessment Program at the Maryland Department of the Environment at (410) 631-3714 or visit on the web www.mde.state.md.us/health/swap/

Is my water safe?

We are very pleased to provide you with this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to enduring the quality of your water, as Local Water vigilantly safeguards its water supplies.

Do I need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

How do we monitor for contaminants?

Town of Vienna routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2008. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk.

Why are there contaminants in my drinking water?

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 (EPA) Safe Drinking Water Hotline (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. Microbial contaminants, such as viruses and bacteria that 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. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Lead

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. Town of Vienna 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 drinking 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 EPA Safe Drinking Water Hotline at 1-800-426-4791 or at http://www.epa.gov/safewater/lead

Educational Statement for Lead

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.

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants (units)	MCLG	MCL	Your Water	Range Low	Range High	Sample Date	Violation	Typical Source	Plant ID
Inorganic Contaminants									
Sodium (ppm)	MNR	MNR	18	NA		02/25/05	No	Erosion of natural deposits; Leaching	01
Sodium (ppm)	MNR	MNR	21	NA		02/25/05	No	Erosion of natural deposits; Leaching	01
Sodium (ppm)	MNR	MNR	27.2	NA		12/16/08	No	Erosion of natural deposits; Leaching	01
Calcium (ppm)	NA	NA	3.9	NA		04/30/08	No	Leaching from natural deposits	01
Lead (ppb)	0	15	5	0		09/16/05	No	Corrosion of household plumbing systems; Erosion of natural deposits	01
Chromium (ppm)	NA	NA	0.0056	NA		04/30/08	No	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits	01
Organic Contaminants									
TTHM Total Trihalomethanes (ppb)	NA	NA	4.96	NA		09/20/07	No	By-product of water disinfection	00
HAA5 Haloacetic Acids (ppb)	NA	NA	5.46	NA		09/20/07	No		00
Synthetic organic contaminants including pesticides and herbicides									
Di (2-ethylhexyl) phthalate (ppb)	0	6	0.7	NA		11/22/05	No	Discharge from rubber and chemical	01
Unregulated Contaminants									
Bromodichloromethane (ppb)	NA	NA	3.7	NA		11/22/05	No		01
Bromodichloromethane (ppb)	NA	NA	0.9	NA		12/16/08	No		01
Dibromochloromethane (ppb)	NA	NA	2.2	NA		11/22/05	No		01
Chloroform (ppb)	NA	NA	5.2	NA		11/22/05	No		01
Chloroform (ppb)	NA	NA	2.4	NA		12/16/08	No		01
Chloromethane (ppb)	NA	NA	0.9	NA		12/16/08	No		01
Microbiological Contaminants									
Turbidity (NTU)	NA	TT	11	NA		04/30/08	No	Soil Runoff	01
Radioactive Contaminants									
Beta/photon Emitters (pCi/L)	0	200	2	NA		12/16/08	No	Decay of natural and man-made deposits	01
Secondary Standards Ð Related to the Aesthetic Quality of Drinking Water									
Total Hardness (ppm)	NA	NA	22	NA		04/30/08	No	Naturally Occurring	01
pH, SU	NA	NA	6	NA		04/30/08	No	Treatment Process	01
Total Dissolved Solids (ppm)	NA	500	198	NA		04/30/08	No	Naturally Occurring	01
Alkalinity (ppm)	NA	NA	80	NA		04/30/09	No	Naturally Occurring	01
Temperature (°C)	NA	NA	18	NA		04/30/08	No		01
Chloride (ppm)	NA	250	13	NA		04/30/08	No	Naturally Occurring	01
Iron (ppm)	NA	NA	11	NA		04/30/08	No	Naturally Occurring	01
Manganese (ppm)	NA	0.05	0.22	NA		04/30/08	Yes	Leaching from natural deposits	01
Fluoride (ppm)	4	4	0.1	NA		02/01/05	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	01
Fluoride (ppm)	4	4	0.13	NA		04/30/08	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	01

Violations:

We constantly monitor for various contaminants in the water supply to meet all regulatory requirements. This past year there was a reporting violation for lead and copper resulting in a retest. This retest was reported outside of the required monitoring period. This does not pose a threat to the quality of our water system, and has since returned to compliance as of April 2009.

Units Description:

NA: Not applicable
ND: Not detected
NR: Not reported
NTU: Nephelometric Turbidity Unit measure of the clarity of water.
MNR: Monitoring not required, but recommended.
ppm: parts per million, or milligrams per liter (mg/L)
ppb: parts per billion, or micrograms per liter (µg/L)
pCi/L: picocuries per liter (a measure of radioactivity)
# of monthly positive samples: Number of samples taken monthly that were found to be positive.

Important Drinking Water Definitions:

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

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