

AURELIA WATER QUALITY REPORT FOR 2006

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our groundwater is drawn from the Cretaceous (Dakota Sandstone) aquifer(s).

Our water quality testing shows the following results:

CONTAMINANT	MCLG	MCL	DETECTED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
Copper (ppm)	1.3	AL=1.3	0.17	07/18/2003	ND-0.24	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	AL=15	2	07/10/2003	ND-7	No	Corrosion of household plumbing systems; erosion of natural deposits
Toluene (ppm)	1	1	0.0014	08/10/2004		No	Discharge from petroleum factories
Xylenes (ppm)	10	10	0.0013	08/10/2004		No	Discharges from petroleum factories; Discharge from chemical factories
Barium (ppm)	2	2	0.07	04/21/2004		No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	1.27	2005	0.60-1.27	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A	N/A	12	04/21/2004		No	Erosion of natural deposits; Added to water during treatment process
Sulfate (ppm)	N/A	N/A	29	04/21/2004		No	Erosion of natural deposits
Chlorine (ppm)	MRDLG=4.0	MRDL=4.0	0.59	2005		No	Water additive used to control microbes

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- Maximum Contaminant Level (MCL) – 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.
- Maximum Contaminant Level Goal (MCLG) -- 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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Maximum Residual Disinfectant Level Goal (MRDLG) - 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.

- Maximum Residual Disinfectant Level (MRDL) - 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.

GENERAL 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 posed a health risk. More information about contaminants or 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 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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

CONTAMINANT VIOLATIONS

None

ADDITIONAL HEALTH INFORMATION

None

OTHER VIOLATIONS

None

SOURCE WATER ASSESSMENT INFORMATION

The Aurelia water supply obtains its water from the Cretaceous (Dakota Sandstone) aquifer. The Cretaceous (Dakota Sandstone) aquifer was determined to be not susceptible to contamination because the characteristics of the aquifer and overlying materials prevent easy access of contaminants to the aquifer. The wells will not be susceptible to most contaminant sources except through pathways to the aquifer such as abandoned or poorly maintained wells. A detailed evaluation of your source water was completed by the IDNR, and is available from City Hall at 712-434-2025.

OTHER INFORMATION

Our water utility is making every effort to protect the water system from potential security threats. You, as customers, can also help. If you see any suspicious activity near the water tower, treatment plant, wells or fire hydrants, please contact us at 712-434-2025 or the local police department at 712-434-5912. We appreciate your assistance in protecting the water system.

CONTACT INFORMATION

For questions regarding this information, please contact Kurt Peterson, Pat Howey, or Barb Messerole at 712-434-2025 during the following hours: 8:30a.m. to 4:30p.m.. Monday – Friday.

Decisions regarding the water system are made at the at the City Council meetings held on the 3rd Monday of each month at 7:00 p.m. at City Hall and are open to the public.

THIS REPORT WILL NOT BE MAILED TO OUR CUSTOMERS, BUT COPIES ARE AVAILABLE AT CITY HALL.