



# 2004 Annual Drinking Water Quality Report

**ALTAMONT**

**1L0490050**

**Annual Water Quality Report for the period of January 1 to December 31, 2004**

**This report is intended to provide you with important information about your drinking water and the efforts made by the ALTAMONT water system to provide safe drinking water. The source of drinking water used by ALTAMONT is Surface Water.**

**For more information regarding this report contact:**

**Name KEVIN WHITTEN, WATER SUPERINTENDENT**

**Phone 618-483-6370**

**Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.**

Source of Drinking Water
The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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 pickup 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.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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).

## Source Water Assessment

**A Source Water Assessment summary is included below for your convenience.**

Illinois EPA considers all surface water sources of public water supply to susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion. In order to help farmers in adopting sound agricultural practices the Illinois Council on Best Management Practices (C-BMP) was formed. The Council is a coalition of agribusiness and agricultural producer organizations with the support of the University of Illinois Extension and serves as a clearinghouse on current research to protect water quality in Illinois. The Council also provides information and support to local watershed groups to help implement sound water quality initiatives and can offer educational assistance and help facilitate the technical and financial resources needed to carry out water quality objectives. For more information on C-BMP contact Dr. George Czapar, Springfield Extension Center, P.O. Box 8199, Springfield, IL 62791, email: g-czapar@uiuc.edu. For more information on BMPs, please refer to the web site at <http://www.ctic.purdue.edu>, as well as A Guide to Illinois Lake Management available from Illinois EPA. The Illinois Agronomy Handbook should also be used as guidance in implementing BMPs. In a national effort to ensure adequate protection against groundwater contamination from the herbicide atrazine, U.S. EPA made significant changes to the atrazine use label in 1990. It is a violation of law to apply, mix, or load atrazine within 50 feet of any well, including water wells, irrigation wells, livestock water wells, abandoned wells or sinkholes. In 1992, the atrazine label was further amended to protect surface waters by requiring a 200 foot application setback for lakes and reservoirs. In addition, there is a 66 foot setback from any point where field surface water runoff enters a stream or river. A concerted effort to incorporate best management practices for atrazine applications is on-going, an atrazine BMP document is available from Novartis Crop Protection, or by contacting the Illinois Fertilizer & Chemical Association at (800) 892-7122. In an effort to minimize the impact of livestock facilities on water resources on a statewide basis, livestock facilities are now regulated under the Livestock Management Facilities Act. This legislation is designed to keep Illinois' livestock industry productive and environmentally responsible by establishing requirements for design, construction, operation and management of livestock facilities and waste-handling structures. Detailed information on the Livestock Management Facilities Act may be found at the website <http://www.agr.state.il.us>. In addition, further watershed protection efforts and priorities of the Illinois EPA, Illinois Department of Agriculture, Illinois Department of Natural Resources, U. S. Department of Agriculture's Natural Resources Conservation Service, U.S. Army Corps of Engineers, and The Nature Conservancy are described and illustrated at the web site <http://www.epa.state.il.us/water/unified-watershed-assessment/index.html>. SOURCES OF INFORMATION: Data and information used in the maps supplied with this factsheet were obtained from the following sources: • Transportation, Rivers, County Boundary, Land Cover, modified CWS Watersheds, modified Intakes, and Wildlife Density data from Illinois DNR • CERCLA and RCRA sites from U. S. Environmental Protection Agency's Envirofacts Database • Herbicide and Nitrogen Usage from U.S. Geological Survey • Livestock Densities from U.S. Department of Agriculture • TRI, NPDES, LUST Sites, Cleanups, Landfills, and Intakes provided by Illinois EPA

## 2004 Regulated Contaminants Detected

### Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source Of Contamination	
0	1 positive monthly sample	1	Fecal Coliform or E. Coli MCL: A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive		No	Naturally present in the environment	<a href="#">Edit</a>

### Lead and Copper

Date Sampled: 12/31/2004

Definitions:

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALG's allow for a margin of safety.

Lead MCLG	Lead Action Level (AL)	Lead 90th Percentile	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	Copper 90th Percentile	# Sites Over Copper AL	Likely Source of Contamination	
0	15 ppb	2 ppb	0	1.3 ppm	1.3 ppm	0.28 ppm	0	Corrosion of household plumbing systems; Erosion of natural deposits	<a href="#">Edit</a>

### Water Quality Test Results

Definitions: The following tables contain scientific terms and measures, some of which may require explanation. Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the Maximum Contaminant Level Goal 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. MCLG's allow for a margin of safety. mg/l: milligrams per litre or parts per million - or one ounce in 7,350 gallons of water. ug/l: micrograms per litre or parts per billion - or one ounce in 7,350,000 gallons of water. na: not applicable. Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples. Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water. Maximum Residual Disinfectant Level (MRDLG): The level of disinfectant in drinking water below which there is no known or expected risk to health. MRDLG's allow for a margin of safety.

### Regulated Contaminants

Disinfectants & Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant	
<b>TTHMs [Total Trihalomethanes]</b>	7/19/2004	87	54 - 87	N/A	80	ppb	No	By-product of drinking water chlorination	<a href="#">Edit</a>
<b>Total Haloacetic Acids (HAA5)</b>	4/14/2004	44	34 - 44	N/A	60	ppb	No	By-product of drinking water chlorination	<a href="#">Edit</a>
<b>Chlorine</b>		1.3143	0 - 1.3143	MRDLG=4	MRDL=4	ppm		Water additive used to control microbes	<a href="#">Edit</a>

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant	
<b>Barium</b>	4/20/2004	0.032	Not Applicable	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	<a href="#">Edit</a>
<b>Fluoride</b>	4/20/2004	1.03	Not Applicable	4	4	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Fertilizer discharge	<a href="#">Edit</a>
<b>Nitrate-Nitrite</b>	4/11/2000	0.19	0.12 - 0.19	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	<a href="#">Edit</a>
<b>Nitrate (As N)</b>	4/20/2004	0.26	Not Applicable	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	<a href="#">Edit</a>

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant	
<b>Beta Emitters</b>	10/16/2001	7	Not Applicable	0	4	mR/Yr	No	Erosion of natural deposits	<a href="#">Edit</a>

State Regulated Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant	
<b>Manganese</b> This contaminant is not currently regulated by USEPA. However, the state has set an MCL for this contaminant for supplies serving a population of 1000 or more.	4/20/2004	18	Not Applicable	N/A	150	ppb	No	Erosion of naturally occurring deposits	<a href="#">Edit</a>
<b>Sodium</b> There is not a state of federal MCL for sodium. Monitoring is required to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about this level of sodium in the water.	4/20/2004	23	Not Applicable	N/A	N/A	ppm	No	Erosion of naturally occurring deposits; used in water softener regeneration	<a href="#">Edit</a>
<b>Zinc</b>	4/20/2004	36	Not Applicable	N/A	5000	ppb	No	Naturally occurring; discharge from metal factories	<a href="#">Edit</a>

**Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old. 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. AL (Action Level): The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system must follow. ppm: parts per million ppb: parts per billion ppt: parts per trillion pCi/l: picoCuries per liter (measurement of radioactivity)**

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

#### Turbidity

Limit (Treatment Technique)	Lowest Monthly % meeting limit	Violation	Source	
0.5 NTU (POP served < 10,000) 0.3 NTU (POP served > 9,999)	99.33	No	Soil Runoff	<a href="#">Edit</a>

Limit (Treatment Technique)	Highest Single Measurement	Violation	Source	
5 NTU (POP served < 10,000) 1 NTU (POP served > 9,999)	0.81	No	Soil Runoff	<a href="#">Edit</a>

**Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.**

#### Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set by IEPA, unless a TOC violation is noted in the violations section.

#### 2004 Violation Summary Table:

This table is intended to assist you in the identification of year 2004 violation(s) that are required to be reported and explained in your CCR. The table does NOT include the required explanation of the noted violation(s) and you will need to provide this information as explained in the CCR Guidance Manual.

Rule or Contaminant	Violation Type	Violation Duration
<b>CARBON, TOTAL ORGANIC (TOC)</b> Failure to collect the required number of samples.	MONITORING, ROUTINE (DBP), MAJOR	2/1/2004 To 2/29/2004
<b>CARBON, TOTAL ORGANIC (TOC)</b> Failure to collect the required number of samples.	MONITORING, ROUTINE (DBP), MAJOR	3/1/2004 To 3/31/2004

**ALTAMONT has taken the following actions specific to the VIOLATION(S) listed above:**

**End of Report**