

As New York State regulations require, the Cortland Water Department routinely tests your drinking water for numerous contaminants. The list includes: Total Coliform, Inorganic Compounds, Nitrates, Nitrites, Volatile Organic Compounds, Total Trihalomethanes, Haloacetic Acids, Lead, Copper, Radiologicals and Synthetic Organic Compounds. As you can see, our system had no violations, but we have learned through our testing that some contaminants have been detected; these contaminants were detected below New York State requirements. Only those contaminants detected are listed below. A complete list can be made available upon request.

Contaminants	Violation Yes/No	Date of Sample	Level Detected	*Unit of Measure	MCLG Limit	Regulatory Limit	Likely Source of Contamination
<b>Barium</b>	No	'08 Ann. Ave. Range	36.75 (36-38)	ug/l	2000	2000	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
<b>Chloride</b>	No	4-2-09	11.0	mg/l	N/A	250	Naturally occurring or indicative of road salt contamination.
<b>Sodium</b>	No	4-2-09	26.8	mg/l	20	(1) N/A	Naturally occurring; road salt; water softeners; animal wastes.
<b>Nitrate</b>	No	'09 Ann. Ave. Range	2.29 (1.9-2.66)	mg/l	10	10	Nitrates can be form fertilizer use runoff; leaching from septic tanks, sewage and/or erosion of natural deposits.
<b>Sulfate</b>	No	'08 Ann. Ave. Range	14.18 (14-14.7)	mg/l	N/A	250	Naturally occurring.
<b>Thallium</b>	No	3-22-05	0.12	ug/l	0.5	2	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories.
<b>Total Trihalomethanes (TTHM)</b>	No	8-19-09	4.64	ug/l	N/A	80	Resulting from the reaction of chlorine on organic matter.
<b>Chromium</b>	No	'08 Ann. Ave. Range	1.98 (ND-4.1)	ug/l	100	100	Discharge from steel and pulp mills; Erosion of natural deposits.
<b>Zinc</b>	No	'08 Ann. Ave. Range	8.65 (ND-9.7)	ug/l	N/A	500	Naturally occurring; Mining waste.

(1) Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**Lead** sampling of 30 sites during 2007 revealed a range of lead detection from a low of ND to a high of 12.5 ug/l. We had no samples above the AL of 15 ug/l and the 90th percentile was 4.6 ug/l. No violation.

**Copper** sampling of 30 sites during 2007 revealed a range of copper detection from a low of 016.4 ug/l to a high of 285.0 ug/l. We had no samples above the AL of 1300 ug/l and the 90th percentile was 136.0 ug/l. No violation.

**Bacteriological** sampling consists of 5 routine micro-biological samples taken four times per month (a total of 240 per year). New York State Department of Health requires that if bacteria shows up in a water sample, we must do a repeat sample at the failed site plus the water service both sides of the failed site. In addition, a fourth sample anywhere in the system and one additional sample is taken the following month.

The State allows us to monitor for some contaminants less than once per year because concentrations of these contaminants do not change frequently. Some of our data, though representative, may be more than one year old.