

**CITY OF LYONS WATER SYSTEM  
2016 WATER QUALITY DATA  
WSID: GA 2790000**

The table below lists all the drinking water contaminants that have been detected in your drinking water. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The data presented in this table is from testing done during the year noted. The Federal Environmental Protection Agency (EPA) and the Georgia Department of Natural Resources Environmental Protection Division (EPD) require monitoring for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year.

**DETECTED INORGANIC CONTAMINANTS TABLE**

PARAMETER	UNITS	MCL [SMCL]	MCLG	LYONS Water System Results	Range of Detections	Sample Date	Violation No/Yes	Typical Source of Contaminant
Barium	ppm	2	2	0.170	0.12 to 0.17	2016	No	Erosion of natural deposits
Chlorine	ppm	4	4	0.89	0.33 to 1.67	2016	No	Water additive used for control of microbes
Fluoride	ppm	4 [2]	4	0.63	0.23 to 1.2	2016	No	Erosion of natural deposits; promotes strong teeth
Manganese	ppm	[0.05]	**	0.049	0 to 0.049	2016	No	Erosion of natural deposits

**DETECTED ORGANIC CONTAMINANTS TABLE**

PARAMETER	UNITS	MCL	MCLG	LYONS Water System Results	Range of Detections	Sample Date	Violation No/Yes	Typical Source of Contaminant
Haloacetic Acids	ppb	60	**	ND	NA	2016	No	By product of drinking water disinfection
TTHMs	ppb	80	**	ND	NA	2016	No	By product of drinking water disinfection

**OTHER DETECTED UNREGULATED CONTAMINANTS TABLE**

PARAMETER	UNITS	MCL [SMCL]	MCLG	LYONS Water System Results	Range of Detections	Sample Date	Violation No/Yes	Typical Source of Contaminant
Sodium	ppm	**	**	9.9	9.1 to 9.9	2016	No	Erosion of natural deposits

**LEAD AND COPPER MONITORING RESULTS**

PARAMETER	UNITS	Action Level	MCLG	LYONS 90th Percentile	# of sample sites above Action Level	Sample Date	Violation No/Yes	Typical Source of Contaminant
Lead	ppb	15	0	1.8	0	2016	Yes	Corrosion of household plumbing
Copper	ppm	1.3	1.3	0.13	0	2016	Yes	Corrosion of household plumbing

**MICROBIOLOGICAL MONITORING RESULTS**

BIOLOGICAL PARAMETERS	MCL	MCLG	LYONS Water System Results	Positive Sample Date	Sample Year	Violation No/Yes	Typical Source of Contaminant
Presence or Absence of bacteria in sample	Number of Detections		Number of Detections	(Month/Year)			
Total Coliform	0	0	0	NA	2016	No	Naturally present in the environment
E. coli	0	0	0	NA	2016	No	Human and animal fecal waste

**RADIONUCLIDES TABLE**

PARAMETER	UNITS	MCL	MCLG	LYONS Water System Results	Range of Detections	Sample Date	Violation No/Yes	Typical Source of Contaminant
Alpha emitters	pCi/L	15*	0	<3.0	NA	2016	No	Erosion of natural deposits
Radium 226	pCi/L	5*	0	<1.0	NA	2016	No	Erosion of natural deposits
Radium 228	pCi/L	5*	0	<1.0	NA	2016	No	Erosion of natural deposits

\* The MCL for alpha emitters is 4 mrem/year. EPA considers 15 pCi/L to be the level of concern for alpha emitters including Radium 226 and/or 5 pCi/L

for a combined Radium 226 and Radium 228.

FTM = Failure to Monitor

NA = Not Applicable

\*\*\* Parameters, values and/or sources vary.

\*\* No established MCL, SMCL or MCLG

M = Monitored through State analysis and facility daily

R = Resampled, results below action level or not detected