

# Iowa Lakes Regional Water - Lakes Area 2017 Water Quality Report

This report contains important information regarding the water quality in our water system. The source of our water is surface water and groundwater. All of the water is purchased. Purchased water comes from Iowa Lakes Regional Water, Central Water System, and Estherville Water Treatment Plant.

## Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)		Compliance		Date	Violation Yes/No	Source
			Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80	(N/A)	LRAA	45 (20 - 100)	12/31/2017	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60	(N/A)	LRAA	15 (8 - 18)	12/31/2017	No	By-products of drinking water disinfection
Copper (ppm)	AL=1.3	(1.3)	90th	0.1324 (0.0089 - 0.1990)	2017	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15	(0)	90th	1.10 (ND - 11)	2017	No	Corrosion of household plumbing systems; Erosion of natural deposits
<b>DISTRIBUTION SYSTEM</b>							
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)		RAA	1.5 (0.9 - 1.9)	12/31/2017	No	Water additive used to control microbes

## DEFINITIONS

**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.

**ppb**-Parts per billion

**ppm**-Parts per million

**pCi/L**-Picouries per liter

**N/A**-Not applicable

**ND**-Not detected

**RAA**-Running Annual Average

**LRAA**-Locational Running Annual Average

**TT (Treatment Technique)**-A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

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

**MRDLG (Maximum Residual Disinfectant Level Goal)**-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.

**MRDL (Maximum Residual Disinfectant Level)**-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.

**SGL**-Single Sample Result

**RTCR**-Revised Total Coliform Rule

**NTU**-Nephelometric Turbidity Unit

**Iowa Lakes Regional Water  
is pleased to present to our  
customers quality water that  
meets and exceeds all federal  
and state requirements.**

Please contact Kelly Graplar  
with any questions at  
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This water supply obtains some or all of its water from another public water supply. It is a consecutive water supply, where an originating parent supply provides drinking water to one or more downstream supplies.

Original Supply ID	Original Supply Name
IA2100701	Iowa Lakes Regional Water
IA3000099	Central Water System
IA3218024	Estherville Water Treatment Plant

#### OTHER INFORMATION

Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

**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).

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. Iowa Lakes Regional Water 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 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 Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact Iowa Lakes Regional Water-Lakes Area at 712-262-8847.

## Iowa Lakes Regional Water

CONTAMINANT	MCL - (MCLG)	Compliance Value & (Range)		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	0.70 (ND - 0.70)	12/31/2017	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	5.433	5/25/2016	No	Erosion of natural deposits; Added to water during treatment process

## Central Water System

CONTAMINANT	MCL - (MCLG)	Compliance Value & (Range)		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	0.77 (<59)	2017	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Arsenic (ppb)	10 (0)	SGL	1.00	8/6/2014	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Barium (ppm)	2 (2)	SGL	0.06	8/6/2014	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	26	8/1/2017	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	0.11	2017	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Dalapon (ppb)	200 (200)	SGL	<0.5	5/8/2017	No	Runoff from herbicide used on rights of way
Atazina (ppb)	3 (3)	SGL	0.10	5/8/2017	No	Runoff from herbicide used on row crops
Turbidity (NTU)	TT<1 NTU at all times; <0.3 NTUs in 95% of all samples taken	TT	Single high 0.3 100% <0.3 Average 0.062	2017	No	Soil runoff. Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

## Estherville Water Treatment Plant

CONTAMINANT	MCL - (MCLG)	Compliance Value & (Range)		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	0.76 (0.71 - 0.82)	2017	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	430	1/12/2017	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	1.7	2017	No	Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of natural deposits

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IA2100701	Iowa Lakes Regional Water
IA3000099	Central Water System
IA3050079	Milford Municipal Utilities
IA3218024	Estherville Water Treatment Plant

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For questions regarding this information or how you can get involved in decisions regarding the water system, please contact Iowa Lakes Regional Water-Lakes Area at 712-262-8847.

**Iowa Lakes Regional Water**

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	0.9 (0.8 - 0.9)	2016	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	5.433	5/25/2016	No	Erosion of natural deposits; Added to water during treatment process

**Central Water System**

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	0.75	2016	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Arsenic (ppb)	10 (0)	SGL	1.00	8/6/2014	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Barium (ppm)	2 (2)	SGL	0.06	8/6/2014	No	Discharge of drilling wastes; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	26	8/3/2016	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	0.11	2016	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Dalapon (ppb)	200 (200)	SGL	0.50	5/7/2014	No	Runoff from herbicide used on rights of way
Turbidity (NTU)	TT <1 NTU at all times; <0.3 NTUs in 95% of all samples taken	TT	Single high 0.299 100% <0.3 Average 0.06	2016	No	Soil runoff. Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

**Milford Municipal Utilities**

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Arsenic (ppb)	10 (0)	SGL	2.00	4/3/2014	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Barium (ppm)	2 (2)	SGL	0.06	4/3/2014	No	Discharge of drilling wastes; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.66 (0.44 - 0.87)	2016	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	13	10/19/2016	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	0.17	2016	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Dalapon (ppb)	200 (200)	SGL	1.10	7/1/2014	No	Runoff from herbicide used on rights of way
Turbidity (NTU)	TT <1 NTU at all times; <0.3 NTU in 95% of all samples	TT	Single high 0.162 99.99% <0.3 Average 0.050	2016	No	Soil runoff. Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

**Estherville Water Treatment Plant**

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	0.85 (0.67 - 0.98)	2016	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	440	1/12/2016	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	1.6	2016	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits