

# Iowa Lakes Regional Water - Lakes Area 2015 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, Milford Municipal Utilities, and Estherville Water Treatment Plant.

## Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)		Compliance		Date	Violation	Source
			Type	Value & (Range)		Yes/No	
Total Trihalomethanes (ppb) [TTHM]	80	(N/A)	LRAA	53.00 (10 - 96)	3/31/2015	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60	(N/A)	LRAA	17.00 (ND - 30)	12/31/2015	No	By-products of drinking water disinfection
Copper (ppm)	AL=1.3	(1.3)	90th	0.57 (0.01 - 0.92)	2014	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15	(0)	90th	3.00 (ND - 4)	2014	No	Corrosion of household plumbing systems; Erosion of natural deposits
<b>DISTRIBUTION SYSTEM</b>							
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)		RAA	1.4 (0.8 - 2.11)	6/30/2015	No	Water additive used to control microbes

Contaminates with dates indicate results from the most recent testing done in accordance with regulations.

## 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**-Picocuries 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

**TCR**-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  
**Iowa Lakes Regional Water**  
1301 38th Avenue West  
Spencer, IA 51301  
Phone: 712-262-8847  
E-mail: [kelly.graplar@ilrw.org](mailto:kelly.graplar@ilrw.org)



Iowa Lakes Regional Water is an  
Equal Opportunity Provider and Employer

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  
 IA3050079                                  Milford Municipal Utilities  
 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>.

Decisions regarding the water system are made at the Board of Director's meetings held on the fourth Thursday of every month, unless otherwise posted, at 7:00 p.m. at the District office and are open to the public.

**Iowa Lakes Regional Water**

CONTAMINANT	MCL- (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	1.6 (0.2 - 1.6)	5/27/2015	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	4.8	6/20/2013	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	0.79 (0.46 - 0.79)	8/6/2014	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	23	9/9/2015	No	Erosion of natural deposits; Added to water during treatment process
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 0.069	2015	No	Soil runoff

**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; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.59 (0.5 - 0.92)	4/3/2014	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	10/12/2015	No	Erosion of natural deposits; Added to water during treatment process
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 0.096 99.99% <0.3 Average 0.055	2015	No	Soil runoff

**Estherville Water Treatment Plant**

CONTAMINANT	MCL- (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	0.97 (0.89 - 1.14)	2015	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	420	1/12/2015	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	1.6	2015	No	Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of natural deposits

# 2015 WATER QUALITY REPORT FOR SUPERIOR WATER SYSTEM

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, Milford Municipal Utilities 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	45.00 (45 - 45)	09/30/2015	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	14.00 (14 - 14)	09/30/2015	No	By-products of drinking water disinfection
Lead (ppb)	AL=15 (0)	90th	2.00 (ND - 2)	2015	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.4 (0.08 - 0.4)	2015	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
<b>950 - DISTRIBUTION SYSTEM</b>						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.5 (1.18 - 2.11)	06/30/2015	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
- RAA – Running Annual Average
- LRAA – Locational Running Annual Average
- 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.
- SGL – Single Sample Result
- TCR – Total Coliform Rule
- NTU – Nephelometric Turbidity Units

## 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. SUPERIOR WATER SYSTEM 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>.

### SOURCE WATER ASSESSMENT INFORMATION

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
IA3050079	Milford Municipal Utilities
IA3218024	Estherville Water Treatment Plant

### OTHER INFORMATION

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

### CONTACT INFORMATION

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact SUPERIOR WATER SYSTEM at 712-858-4690.

**PURCHASED WATER INFORMATION**

Our water system purchases water from the system(s) shown below. Their water quality is as follows:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)			
3000099 - CENTRAL WATER SYSTEM						
02 - FINAL EFFLUENT SAMPLING TAP						
Fluoride (ppm)	4 (4)	SGL	0.65	08/06/2014	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Arsenic (ppb)	10 (0)	SGL	1.00	08/06/2014	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Barium (ppm)	2 (2)	SGL	0.06	08/06/2014	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	23	09/09/2015	No	Erosion of natural deposits; Added to water during treatment process
Dalapon (ppb)	200 (200)	SGL	0.50	05/07/2014	No	Runoff from herbicide used on rights of way
Turbidity (NTU)	N/A (N/A)	TT	Enter highest single measurement and the lowest monthly percentage of samples meeting turbidity limits here.			Soil runoff
3218024 - ESTHERVILLE WATER TREATMENT PLANT						
01 - #4,7,8,9,OR10/TRMTN PLT SMP TAP						
Fluoride (ppm)	4 (4)	SGL	1	02/06/2012	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	420	01/12/2015	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	1.6	2015	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
2100701 - IOWA LAKES REGIONAL WATER						
01 - WLS 1,2,4-10 @ TREATMENT PLANT TAP						
Fluoride (ppm)	4 (4)	SGL	0.56	06/20/2013	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	4.8	06/20/2013	No	Erosion of natural deposits; Added to water during treatment process
3050079 - MILFORD MUNICIPAL UTILITIES						
01 - 1200 Q AVENUE (LAKE)						

Arsenic (ppb)	10 (0)	SGL	2.00	04/03/2014	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Barium (ppm)	2 (2)	SGL	0.06	04/03/2014	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.59	04/03/2014	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	10/12/2015	No	Erosion of natural deposits; Added to water during treatment process
Dalapon (ppb)	200 (200)	SGL	1.10	07/01/2014	No	Runoff from herbicide used on rights of way
Turbidity (NTU)	N/A (N/A)	TT	Enter highest single measurement and the lowest monthly percentage of samples meeting turbidity limits here.			Soil runoff