#### **Water System Information**

If you would like to know more about the information contained in this report, please contact SWL&P's Lead Water Plant Operator-In-Charge, Donald Vollmer at (715) 398-4421.

## Opportunity for input on decisions affecting your water quality

Superior Water, Light & Power (SWL&P) is a private utility. Public meetings to voice concerns regarding water quality and/or usage is not offered. However, should you have a question or concern regarding the quality or usage of your drinking water, please feel free to contact Donald Vollmer.

#### **Health 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 poses a health risk. More information about contaminants and 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 systems 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 Environmental Protection Agency's safe drinking water hotline (800-426-4791).

#### Source(s) of Water

Source ID	Source	Depth (ft)	Waterbody Name	Status
1	Surface Water		Lake Superior	Active

To obtain a summary of the source water assessment, please contact Donald Vollmer.

#### **Educational Information**

The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs and 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 pick up 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 naturallyoccurring or result from urban stormwater 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 stormwater 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 stormwater runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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

#### **Definitions**

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

**Level 1 Assessment** A Level 1 assessment is a study of the water system to identify potential problems and determine, if possible, why total coliform bacteria have been found in our water system.

**Level 2 Assessment** A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine, if possible, why an E. coli MCL violation has occurred or why total coliform bacteria have been found in our water system, or both, on multiple occasions.

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 contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**MFL** Million fibers per liter.

MRDL Maximum Residual Disinfection 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.

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.

mrem/year Millirems per year: A measure of radiation absorbed by the body.

**NTU** Nephelometric Turbidity Units.

pCi/l Picocuries per liter (a measure of radioactivity).ppm Parts per million, or milligrams per liter (mg/l).

ppb Parts per billion, or micrograms per liter (ug/l).ppt Parts per trillion, or nanograms per liter.

**ppq** Parts per quadrillion, or picograms per liter.

TCR Total Coliform Rule.

TT Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

**Detected Contaminants** Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was detected last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

DISINFECTION BYPRODUCTS								
Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2016)	Violation	Typical Source of Contaminant
HAA5 (ppb)	SM-4	60	60	33	17 - 38		NO	Byproduct of drinking water chlorination
TTHM (ppb)	SM-4	80	0	44.1	27.5 - 54.6		NO	Byproduct of drinking water chlorination
HAA5 (ppb)	SM-5	60	60	30	19 - 31		NO	Byproduct of drinking water chlorination
TTHM (ppb)	SM-5	80	0	54.4	44.9-61.2		NO	Byproduct of drinking water chlorination
HAA5 (ppb)	SM-6	60	60	2	1 - 3		NO	Byproduct of drinking water chlorination
TTHM (ppb)	SM-6	80	0	49.5	37.1-60.8		NO	Byproduct of drinking water chlorination
HAA5 (ppb)	SM-7	60	60	24	9 - 36		NO	Byproduct of drinking water chlorination
TTHM (ppb)	SM-7	80	0	36.6	24.8-48.0		NO	Byproduct of drinking water chlorination





known as an annual drinking water quality report, to customers.

Know your tap water.

#### 2016 CONSUMER CONFIDENCE REPORT Superior Water, Light & Power Company, PWS ID: 81601476

0.034	₽80.0	TAM20	Hexavalent Chromium		
Z4-25	72	TAM20	Strontium		
11.0	11.0	Field Blank	тиітол4Э		
Z <del>4</del> -25	72	EPTDS	Strontium		
940560.	40.0	EPTDS	Hexavalent Chromium		
Range	Average (ppb)	Site	(atinu) tnanimatnoO		
NCMR3 - SAMPLES COLLECTED IN 2014					

COLLECTED IN 2014			
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ple Date (if prior to 2016)	Range Sam	Found Level Found	(stinu) InsnimstnoO

		N 100 INI C	INCINES CAMPILES COLLECTER	
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ELM required us to participate in this monitoring.				

	2.30	2.30	(mqq) ətsilu2		
Sample Date (if prior to 2016)	Range	Found Level Found	(stinu) tnanimatnoO		
UNREGULATED CONTAMINANTS Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. EPA required us to participate in this monitoring.					

0.0

Found Found

74.0

7.0

6

110.0

Level

09

MCLG

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0.0720

90th Percentile Level Found

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**WCLG** 

09

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NICE

SYNTHETIC ORGANIC CONTAMINANTS INCLUDING PESTICIDES AND HERBICIDES

G1=1A

E.f=JA

Action Level

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# of Results

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940880.	40.0		EPTDS	Hexavalent Chromium					
Range	Average (ppb)		ətiZ	(stinu) tnsnimstnoO					
UCMR3 - SAMPLES COLLECTED IN 2014									
		5.30	2.30		(mqq) ətetlu2				

# Health effects for any contaminants with MCL violations or Action Level Exceedances

from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead. water, testing methods, and steps you can take to minimize exposure is available water, you may wish to have your water tested. Information on lead in drinking

before using water for drinking or cooking. If you are concerned about lead in your

the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes

components. When your water has been sitting for several hours, you can minimize

drinking water, but cannot control the variety of materials used in plumbing

Superior Water Light & Power Company is responsible for providing high quality

materials and components associated with service lines and home plumbing.

for pregnant women and young children. Lead in drinking water is primarily from

It present, elevated levels of lead can cause serious health problems, especially

**ADDITIONAL HEALTH INFORMATION** 

Contaminant Health Effects

Нехасијогосусіорептадіеле (ppb)

Contaminant (units)

resq (bbp)

Copper (ppm)

Contaminant (units)

(mqq) muibo2

Mitrate (M03-M) (ppm)

Fluoride (ppm)

Cyanide (ppb)

Barium (ppm)

Contaminant (units)

INORGANIC CONTAMINANTS

show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. LEAD: Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could

#### Turbidity Monitoring **OTHER COMPLIANCE**

7/14/2014

(if prior to 2015)

Sample Date

102/91/6

9/12/2014

(it prior to

Sample Date

t/23/2014

(if prior to 2015)

Sample Date

ON

Violation

ON

ON

Violation

ON

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ON

Violation

was 100 percent.

.14 NTU. The lowest monthly percentage of samples meeting the turbidity limits system. During the year, the highest single entry point turbidity measurement was monitor for it because it is a good indicator of the effectiveness of our filtration than 0.1 NTU/0.3NTU. Turbidity is a measure of the cloudiness of water. We surface water is monitored for turbidity to confirm that the filtered water is less In accordance with s. NR 810.29, Wisconsin Administrative Code, the treated

Discharge from chemical factories

Typical Source of Contaminant

systems; Erosion of natural deposits

Corrosion of household plumbing

eaching from wood preservatives

systems; Erosion of natural deposits;

Corrosion of household plumbing

Typical Source of Contaminant

u/9

stisoqəb septic tanks, sewage; Erosion of natural

Runoff from fertilizer use; Leaching from Discharge from fertilizer and aluminum factories

Erosion of natural deposits; Water additive which promotes strong teeth; ISCIOLIES Discharge from plastic and fertilizer

Discharge from steel/metal factories; deposits Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural

Typical Source of Confaminant

For more information about the report, contact Donald Vollmer, SWL&P lead water plant operator, at 715-398-4421.

This report provides important information about local drinking water qualitywhere your water comes from, our testing results in compliance with the regulated detected contaminants, and other educational information.

The U.S. Environmental Protection Agency requires water suppliers, such as Superior, Water, Light and Power, to deliver a Consumer Confidence Report, also

SWL&P is proud of our record to safely deliver reliable, quality water to our customers for more than 100 years.