



# Annual Consumer Confidence Water Report

700 Highway 2/Post Office Box 287

Leavenworth City Hall

June 2014

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## INTRODUCTION

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The City draws water from both Icicle Creek and wells near Leavenworth's Golf Course. The water we provide can be from either of these two sources individually, or as a blend of both sources. We have a source water protection plan available from our office that provides more information.

### ***Water Announcements 2014***

This year the City will install a new pump with piping / control system to the well we drilled during 2012. This new well should be available for use by the end of summer, 2014.

The flow testing we did was impressive with production over 1,000 gallons per minute. This production was sustained for 24 hours. We are going to install a 1,250 gallon per minute pump in the well. This will satisfy future growth water production needs.



## QUESTIONS OR COMMENTS?

If you have any questions about this report, or concerning your water utility, please contact Stan Adams, Leavenworth's Water System Supervisor or call the Water Plant at **548-5235**. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our City Council regularly scheduled meetings on the second and fourth Tuesday of each month at 6:30 p.m. at City Hall.

The City of Leavenworth routinely monitors for constituents (contaminants) in your drinking water according to Federal and State laws. The tables included in this report show the results of our monitoring for the period of **January 1<sup>st</sup> to December 31<sup>st</sup>, 2013**. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

## DEFINITIONS

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

**Non-Detects (ND)** - laboratory analysis indicates that the constituent is not present.

**Parts per million (ppm) or Milligrams per liter (mg/l)** - one part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb) or Micrograms per liter** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**Parts per trillion (ppt) or Nanograms per liter (nanograms/l)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

**Parts per quadrillion (ppq) or Picograms per liter (picograms/l)** - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.



**Picocuries per liter (pCi/L)** - picocuries per liter is a measure of the radioactivity in water.

**Millirems per year (mrem/yr)** - measure of radiation absorbed by the body.

**Million Fibers per Liter (MFL)** - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

**Nephelometric Turbidity Unit (NTU)** - nephelometric turbidity unit is a measure of the clarity of water.

Turbidity in excess of 5 NTU is just noticeable to the average person.

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

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

**Maximum Contaminant Level** - (mandatory language) The "Maximum Allowed" (MCL) is 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** - (mandatory language) The "Goal"(MCLG) is 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.

**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.

**“ 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. The City of Leavenworth is responsible for providing high quality drinking water, but cannot control the variety of material 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>”**

## INORGANIC CONTAMINANTS DETECTED IN 2013

<u>Contaminant</u>	<u>Violation Yes / No</u>	<u>Level Detected</u>	<u>Unit Measurements</u>	<u>MCLG</u>	<u>MCL</u>
1. Nitrate (as Nitrogen)	No	0.00 (wells)	mg/L	1	1
2. Nitrates - N	No	<0.07	mg/L	1	1

*Likely Source of Contamination: Runoff from fertilizer use: leaching of septic tanks, sewage, natural deposits.*

## OTHER CONSTITUENTS NOT DETECTED IN 2013

In addition to the three constituents listed above, the City also tests drinking water for the following:

### Inorganic Contaminants

Antimony  
Arsenic  
Asbestos  
Barium  
Beryllium  
Cadmium  
Chromium  
Copper  
Cyanide  
Fluoride  
Lead  
Mercury  
Selenium  
Thallium

### Microbiological Contaminants

Coliform  
Fecal coliform

**Water facts: Historical records show Icicle River flows to vary from 1,640 cfs in 1941 to 19,800 cfs in 1995.**



### Volatile Organic Contaminants

Benzene  
Carbon tetrachloride  
Chlorobenzene  
o-Dichlorobenzene  
p-Dichlorobenze  
1,2- Dichloroethane  
1,1- Dichloroethylene  
cis-1,2-ichloroethylene  
trans-1,2,-Dichloroethylene  
Dichloromethane  
1,2- Dichloropropane  
Ethylbenzene  
Styrene  
Tetrachloroethylene  
1,2,4-Trichlorobenzene  
1,1,1-Trichloroethane  
1,1,2- Trichloroethane  
Trichloroethyle  
Total Trihalomethanes  
Toluene  
Vinyl Choride  
Xylenes

### Synthetic Organic Contaminants

2,4-D  
2,4,5-TP (Silvex)  
Acrylamide  
Alachlor  
Atrazine  
Benzo(a)pyrene (PAH)  
Carbofuran  
Chlordane  
Dalapon  
Di(2-ethylhexyl)adipate  
Di(2-ethylhexyl)phthalate  
Dibromochloropropane  
Dinoseb  
Diquat  
Dioxin[2,3,7,8-TCDD]  
Endothall  
Endrin  
Epichlorohydrin  
Ethylene dibromide  
Glyphosate  
Heptachlor  
Heptachlor epoxied  
Hexachlorobenzene  
Hexachlorocyclo-pentadiene  
Lindane  
Methoxychlor  
Oxamyl[Vydate}  
PCBs  
Pentachlorophenol  
Picloram  
Simazine  
Toxaphene

**We're proud that your drinking water meets or exceeds all other Federal and State requirements.** We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water **IS SAFE** at these levels.

All 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 the water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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 may 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 microbiological contaminants are available from the Safe Drinking Water Hotline 1-800-426-4791.

**City Ordinance No. 1178 and Washington State Law WAC#246-290 require all Water Customers who have backflow assembly(s) to test annually (June) and have the results sent to the City of Leavenworth.**  
**Thank you for your compliance.**

**City of Leavenworth**  
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