



## CONSUMER CONFIDENCE REPORT CERTIFICATE OF DELIVERY FOR CALENDAR YEAR 2022

PWS NAME: FORT LEAVENWORTH AMERICAN WATER ENT LLC  
PWS ID: KS2010311

DATE DISTRIBUTED TO CUSTOMERS: \_\_\_\_\_

**You must use one or more direct delivery method to reach all bill paying customers. Good faith delivery methods should be used to reach non-bill paying customers. A copy should also be provided to the local county health department.**

### Direct Delivery Methods:

- ☐ Mail a paper copy of the CCR.
- ☐ Mail notification that the CCR is available online at: [http://\\_\\_\\_\\_\\_](http://_____)  
The internet link used above must take the customer directly to the open CCR.
- ☐ Email notification that the CCR is available online at [http://\\_\\_\\_\\_\\_](http://_____)
- ☐ Email CCR as an attachment to or an embedded image in an email.
- ☐ Other direct delivery (door to door, other electronic delivery method). Please specify: \_\_\_\_\_

### Good faith delivery methods (to reach people who do not receive bills):

- ☐ Mailing the CCR to people who receive mail, but do not receive bills.
- ☐ Advertising the availability of the CCR in news media.
- ☐ Posting the CCR in public places.
- ☐ Delivering multiple copies to single billing addresses serving multiple persons.
- ☐ Delivering copies of the CCR to community organizations.

The community public water supply system named above hereby confirms that its annual consumer confidence report (CCR) covering the calendar year 2022 was made available to all bill paying customers, a good faith effort to distribute the report to non-bill paying customers was made, and a copy was provided to the local county health department.

Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the Kansas Department of Health and Environment.

**Certified by:** Name (print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_

E-mail: \_\_\_\_\_ Date: \_\_\_\_\_

### Documentation to be submitted:

- Completed Certificate of Delivery
- Consumer Confidence Report sent to customers.
- Copy of bill or notice if posting online.
- Copy of email if notifying by email.

### Submit by mail or email to:

KDHE-Bureau of Water  
1000 SW Jackson; Suite 420  
Topeka, KS 66612-1367  
785-296-5523  
[kdhe.ccr@ks.gov](mailto:kdhe.ccr@ks.gov)

# FORT LEAVENWORTH AMERICAN WATER ENT LLC

## Consumer Confidence Report – 2023

### Covering Calendar Year – 2022



This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. If you would like to observe the decision-making process that affect drinking water quality, please call JOSHUA WRIGHT at 913-704-9739.

Our drinking water is supplied from another water system through a Consecutive Connection (CC). Your water comes from 5 Ground Water Well(s):

Buyer Name	Seller Name
FORT LEAVENWORTH AMERICAN WATER ENT LLC	LEAVENWORTH WATER DEPARTMENT

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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).

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 EPA's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) included 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 before we treat it include:  
Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock operations and wildlife.  
Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water 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 storm water run-off, agriculture, and residential users.  
Radioactive contaminants, which can be naturally occurring or the result of mining activity.  
Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Our water system is required to test a minimum of 15 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

#### Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2022 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2022. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. **The bottom line is that the water that is provided to you is safe.**

#### Terms & Abbreviations

**Maximum Contaminant Level Goal (MCLG):** the "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.

**Maximum Contaminant Level (MCL):** 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.

**Secondary Maximum Contaminant Level (SMCL):** recommended level for a contaminant that is not regulated and has no MCL.

**Action Level (AL):** the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

**Treatment Technique (TT):** a required process intended to reduce levels of a contaminant in drinking water.

**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.

**Non-Detects (ND):** lab analysis indicates that the contaminant is not present.

**Parts per Million (ppm)** or milligrams per liter (mg/l)

**Parts per Billion (ppb)** or micrograms per liter (µg/l)

**Picocuries per Liter (pCi/L):** a measure of the radioactivity in water.

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

**Monitoring Period Average (MPA):** An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.

**Nephelometric Turbidity Unit (NTU):** a measure of the clarity of water.

Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.

**Running Annual Average (RAA):** an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

**Locational Running Annual Average (LRAA):** Average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

**Testing Results for: FORT LEAVENWORTH AMERICAN WATER ENT LLC**

Regulated Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
BARIUM	7/12/2022	0.03	0.03	ppm	2	2	Discharge from metal refineries
CHROMIUM	7/12/2022	1.2	1.2	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	8/2/2022	0.59	0.26 - 0.59	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.

Disinfection Byproducts	Monitoring Period	Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2022	20	0 - 16	ppb	60	0	By-product of drinking water disinfection
TTHM	2022	45	0 - 41	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Monitoring Period	90 <sup>th</sup> Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2018 - 2020	0.048	0.002 - 0.21	ppm	1.3	0	Corrosion of household plumbing
LEAD	2018 - 2020	3.5	0 - 9.8	ppb	15	0	Corrosion of household plumbing

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. Your 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>.

Chlorine/Chloramines Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
2022 - 2022	3.0000	MG/L	2.6	MG/L

Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established.	Collection Date	Highest Value	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	7/12/2022	110	110	MG/L	300
CALCIUM	7/12/2022	25	25	MG/L	200
CHLORIDE	7/12/2022	23	23	MG/L	250
CONDUCTIVITY @ 25 C UMHO/CM	7/12/2022	360	360	UMHO/CM	1500
HARDNESS, TOTAL (AS CaCO3)	7/12/2022	140	140	MG/L	400
MAGNESIUM	7/12/2022	20	20	MG/L	150
NICKEL	7/12/2022	0.0013	0.0013	MG/L	0.1
PH	7/12/2022	8.6	8.6	PH	8.5
POTASSIUM	7/12/2022	5.8	5.8	MG/L	100
SILICA	7/12/2022	23	23	MG/L	50
SODIUM	7/12/2022	30	30	MG/L	100
SULFATE	7/12/2022	62	62	MG/L	250
TDS	7/12/2022	260	260	MG/L	500

During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Comments
No Violations Occurred in the Calendar Year of 2022		

There are no additional required health effects notices.

There are no additional required health effects violation notices.

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2022 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
ARSENIC	4/5/2022	LEAVENWORTH WATER DEPARTMENT	1	0 - 1	ppb	10	0	Erosion of natural deposits
ATRAZINE	5/3/2022	LEAVENWORTH WATER DEPARTMENT	0.81	0 - 0.81	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	0.013	0.0095 - 0.013	ppm	2	2	Discharge from metal refineries
CHROMIUM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	3	2.2 - 3	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	1/4/2022	LEAVENWORTH WATER DEPARTMENT	0.7	0 - 0.7	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
NITRATE	4/5/2022	LEAVENWORTH WATER DEPARTMENT	1.5	0 - 1.5	ppm	10	10	Runoff from fertilizer use
NITRATE-NITRITE	4/10/2018	LEAVENWORTH WATER DEPARTMENT	0.99	0.99	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
NITRITE	4/10/2018	LEAVENWORTH WATER DEPARTMENT	0.14	0.14	ppm	1	1	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SELENIUM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	3.4	1.5 - 3.4	ppb	50	50	Erosion of natural deposits

Secondary Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	SMCL
ACETOCHLOR	6/5/2018	LEAVENWORTH WATER DEPARTMENT	0.16	0 - 0.16		
ALKALINITY, TOTAL	4/5/2022	LEAVENWORTH WATER DEPARTMENT	77	63 - 77	MG/L	300
ALUMINUM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	0.43	0 - 0.43	MG/L	0.05
CALCIUM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	29	12 - 29	MG/L	200
CHLORIDE	4/5/2022	LEAVENWORTH WATER DEPARTMENT	27	26 - 27	MG/L	250
CONDUCTIVITY @ 25 C UMHO/CM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	540	440 - 540	UMHO/CM	1500
CORROSIVITY	4/5/2022	LEAVENWORTH WATER DEPARTMENT	0.77	0.3 - 0.77	LANG	0
HARDNESS, TOTAL (AS CaCO3)	4/5/2022	LEAVENWORTH WATER DEPARTMENT	150	120 - 150	MG/L	400
MAGNESIUM	2/1/2022	LEAVENWORTH WATER DEPARTMENT	30	5 - 30	MG/L	150
NICKEL	4/5/2022	LEAVENWORTH WATER DEPARTMENT	0.0023	0 - 0.0023	MG/L	0.1
PH	4/5/2022	LEAVENWORTH WATER DEPARTMENT	8.9	8.8 - 8.9	PH	8.5
PHOSPHORUS, TOTAL	4/5/2022	LEAVENWORTH WATER DEPARTMENT	0.19	0.16 - 0.19	MG/L	5
POTASSIUM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	6.1	6 - 6.1	MG/L	100
SILICA	4/5/2022	LEAVENWORTH WATER DEPARTMENT	13	11 - 13	MG/L	50
SODIUM	4/5/2022	LEAVENWORTH WATER DEPARTMENT	62	47 - 62	MG/L	100
SULFATE	4/5/2022	LEAVENWORTH WATER DEPARTMENT	150	120 - 150	MG/L	250
TDS	4/5/2022	LEAVENWORTH WATER DEPARTMENT	380	280 - 380	MG/L	500
ZINC	4/5/2022	LEAVENWORTH WATER DEPARTMENT	0.014	0.0077 - 0.014	MG/L	5

**Please Note: Because of sampling schedules, results may be older than 1 year.**

During the 2022 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

